# THE NEW STANDARD ENCYCLOPÆDIA AND WORLD ATLAS

# THE NEW STANDARD ENCYCLOPÆDIA AND WORLD ATLAS

With an Introduction by
The Very Rev C. A. Alington, D.D.
Dean of Durham, late Headmaster of I ton

Prepared under the general editorship of J M Parish, MA (Oxon), John R Crossland, FRGS, and A W Holland, managing editor of the Encyclopadia Britannica (13th Edition) with the specialist assistance of George Somercille, MD, DPM, John S Linnell, BA (Oxon), K M Gadd, MA (Oxon & London), C H Knowles, BSc (Lond); the Rev Line Dixon, MC B1, BD (Lond), ES Roberts, M1, and over 40 experts, learned societies and institutions

## THE TIMES OF INDIA HEAD OFFICES · BOMBAY

Other Offices CALCUTTA, DELHI, POONA, BARODA, SIMLA, LAHORE, BANGALORE, KARACHI, RANGOON, NAGPUR, AHMI DABAD, RAWALPINDI, LUCKNOW, CAWNPORE, MADRAS, JUBBULPORE, and over 1000 Agencies throughout the East

### INTRODUCTION

By THE VERY REV. C. A. ALINGTON, D.D., Dean of Durham, late Headmaster of Eton.

O attempt to "introduce" an Encyclopædia is a formidable task, but at least it cannot be thought to suggest a claim to encyclopædic knowledge on the part of the writer. On the contrary it marks him out at once from those few but fortunate people who have no need to consult books of reference or can dispense with a dictionary. In these days there can be few indeed who feel able without some assistance to discuss intelligently the vast variety of subjects which confront the average man and are presented for his consideration in our more responsible newspapers. Our memories, even the best of them, are very untrustworthy and very curiously specialised; some of us can remember pages of poetry, but have no secure grasp of fact; some with a wonderful memory for figures fail hopelessly to remember names, and many who love history have to resort to the humiliation of memorising formulæ before they can recall a date; most of us would have to confess that we deserve the gloomy criticism of the great Lord Halifax, "Some Men's Memory is like a Box, where a Man should mingle his Jewels with his old Shoes"

To all these and to many similar classes, this Encyclopædia offers a welcome support; it saves us from having to burden our memories with what they instinctively reject, and it brings before us much new knowledge which we have had no opportunity of acquiring It is, by definition, "a literary work containing extensive information on all branches of knowledge," and, so far as my researches have allowed me to judge, it well deserves its title. The French Encyclopædists, with whom the word is most frequently associated, confined their attention to "Les Arts, les Sciences et les Métiers"; they would never have introduced you, for instance, to the Waterboatman whose acquaintance you will make in these pages probably for the first time Again, they had a propagandist purpose before them; this Encyclopædia, on the other hand, confines itself to telling you, for example, that the Duke of Albemarle restored Charles II, and leaves you to form your own conclusions whether he was right in doing so

There can be no doubt that a sound knowledge of fact must be the basis of all profitable discussion, and that we all need the power of checking not only the statements of our opponents, but also our own. A respect for accuracy, whether in the use of words or

#### **PREFACE**

READING maketh a full man" Modern civilisation does not permit of the leisurely acquisition of knowledge that was for Bacon the summum bonum of life, yet its very complexity demands an all-round acquaintance with many subjects unnecessary in a simpler age. For this a compact book of reference is indispensable, and the New Standard Encyclopædia seeks to meet this need.

Its references cover a wide field. In biography, history and mythology it reaches far back into the past; in geography, science, politics and sociology it gives the up-to-date information required for an understanding of the modern world. In literature it touches both past and present; information about ancient writers is to be found side by side with that concerning living authors, and its scope is widened by its supplements. Copious cross-references link up the various aspects of connected subjects

A practical feature is the space devoted to the needs of everyday life; medical entries, instructions regarding first-aid in the home, explanation of the commoner legal terms, and authoritative information about careers are all included. The lighter side of life also finds its appropriate place The competition devotee, the wireless enthusiast and the sportsman will all find useful information

both in the text and in the supplements.

Great care has been taken to ensure ease and rapidity of reference Main entries stand out in bold clear type; subsidiary and connected meanings are emphasised, and special attention has been paid to the selection of a type for the text which can be studied at length without strain to the eyes, allowing at the same time the maximum amount of information to be contained in a book of handy size.

Rigid accuracy in the facts given and a true representation of the latest modern thought have been the first considerations. Every subject has been newly written and critically examined by experts, the professional institutions and societies have been widely consulted, and particular attention has been paid to the new knowledge not yet to be found in works of reference. In short, every effort has been made to provide an encyclopædia suitable for constant use in the home, school and business.

THE EDITORS

#### **CONTENTS**

PAGE

Introduction	
by the Very Rev. $C$ A Alington, $D.D.$ , $Dean$ of $Durham$ late $Headmaster$ of $Eton$ .	!,
THE NEW STANDARD ENCYCLOPÆDIA 1  Over 20,000 up-to-date references in Biography History, Geography, Science, Literature, Sociology Medicine, Law and Human Knowledge in all it branches.	.,
FAMOUS CHARACTERS in Prose, Poetry and Tradition	1321
A GUIDE TO THE CINEMA	1329
Who's Who in the Cinema	1330
Competition Hints	1334
Indian Constitutional Reform	1337
Faults and Remedies in Wireless Receivers	1339
SPORTS RECORDS AND FACTS	1341
Postal Information; Interest Table	1346
USEFUL TABLES, SCIENTIFIC DATA, ETC.	1348
THE PRINCIPAL INDIAN STATES	1352
ATLAS OF THE WORLD facing page	1352

#### THE

# NEW STANDARD ENCYCLOPÆDIA

ACHEN German name for the old city more generally called Aix-la-Chapelle (q v )

Aal Native name for Indian shrubs of the madder family, morinda citrifolia, and morinda tinctoria It is also used for the red dye obtained from their roots A tree of the terebinth family grown in the Molucca Islands is called the sai It has an aromatic bark which is used in seasoning food.

Aromatic bark which is used in seasoning food.

Aaland (or Aland). Group of islands, about 300 in number, at the entrance to the Gulf of Bothnia. They cover about 551 sq m and have (1930), 27,375 inhabitants, chiefly fishermen and farmers Marlehamn is the capital and Aaland the largest island For long the islands belonged to Sweden and the people are mainly Swedes. In 1809 they were transferred to Russia and in 1856, just after the Crimean War, Britain, France and Russia agreed that they must not be fortified During the World War the Russians erected forts, the Swedes and Finns objected and they and the Germans sent soldiers there In 1918 the people, by yoto, asked to be there In 1918 the people, by vote, asked to be made part of Sweden, but the Peace Conference decided that the islands should be under the League of Nations This rule lasted until 1921 when they were given to Finland, to whom they now belong

Aardvark Wild animal It lives mainly underground, has a snout like a pig, large ears and a thick tail. As it feeds on ante it is sometimes called the ant bear It is found in Africa, and the Dutch name means "ground pig"

Aardwolf Wild animal. It is found in parts of Africa, chiefly the south, and its Dutch name means "ground wolf" It rather resembles the hyena Its grey coat is striped with black, it has a bushy tail, and it feeds chiefly on ants and carrion.

Aarhus City of Denmark. It stands on from Copenhagen. There is a good deal of shipping, as much of Denmark's produce is sent from here to Great Britain and elsewhere Pop, (1930), 81,279

Aaron Elder brother of Moses High priest of the Jows He was as-

sociated with Moses in the work of leading the Israelites out of Egypt, where he acted as their spokesman When they were in the wilderness Aaron made the golden calf for the people to worship and later rebelled against his brother Both were forbidden, for disobedience, to enter the Promised Land, and Aaron died on Mount Hor When the people murmured against Aaron (Num. xvii ) his rod, taken from an almond tree, is said to have budded as a sign that he was the rightful high priest. An ornament in architecture is called on this account Aaron's Rod, and this is also one name

of a plant, the common mulicin.

The plants known as St. John's Wort and Mother of Thousands are sometimes called Aaron's Beard

Two islands of the Bahamas, Great and Little Abaco The Abaco former is also called Lucaga. Both are British possessions Together they cover 880 sq. m. and have about 4000 inhabitants

Instrument once used for making Abacus calculations It consists of an oblong wooden frame with several wires stretched across it. On each of these are ten beads, five one colour and five another By moving these beads about, children can learn the elements of arithmetic Similar articles are used in China, Russia and other parts of the world Insome examples grooves and counters are used instead of beads and wires. The abacus of the Romans W83 8 board covered with sand in which figures could be traced.

Abalone Sea molluses of the family hattotidae The form of the shell, which bears a resemblance to the ear of a quadruped, has given the name sea ears to this group The genus halions has a shell of nacreous composition which presents beautiful iridescent hues when polished It is used for button making and other commercial purposes The flesh is dried and used as food in some parts of the East

Abana River of Damuscus (il Kings v), by Naaman, the leper (il Kings v), modern Barada It it is thought to be the modern Barada It flows across the plain of Damascus to lose itself in the desert beyond By cutting canals it has been utilised to make the soil around Damasons

more severe if the person abducted is the Like other thinkers he was accused of heresy, owner of property or the heiress to property. and this interfered with his work. He left special penalties are inflicted upon those who abduct girls under 18

Like other thinkers he was accused of heresy, and this interfered with his work. He left Paris and after a time became head of an abbey in Brittany In Paris one of his pupils

Abdul Hamid Two sultans of Turkey Abdul Hamid I reigned from 1773 to 1789 Abdul Hamid II reigned Sept. 22, 1842, began to rule in 1876 Turkey was in dreadful disorder, and in his reign she lost much territory, but the Sultan himself was very clever in his dealings with Great Britain and other countries, who rarely got the better of him. The massacres of the Armenians made him known as the Great Assasin and Abdul the Damned, but he went on his way undisturbed until a revolt broke out in 1909 He was then deposed and was a prisoner until he died in Constantinople, Feb 11, 1918

Abd-ur-Rahman Name of several Arab rulers Three of them were Caliphs of Cordova between 786 and 961 An earlier one led a vast horde of Saracens who were routed by Charles Martel (Charles the Hammer), at Tours in 732 Later (Charles the Hammer) at Sultan of Morocco, 1823-59, but the most famous was an Amir of Afghanistan He selzed the throne in 1880 and remained amir until his death, Oct. 3, 1901, during which time he won for his country an influential position.

Abecedarian Word, made of the letters A B C D, meaning "concerning the alphabet." Abecedarians were an Anabaptist sect founded in Germany in the 16th century by Nicolaus Storch. They refused to learn anything, even the A B C, their idea being that knowledge prevented the soul's close contact with the Delty Abcoedarian hymns are hymns or poems in which each verse or line commences with a letter of the alphabet in order, a, b, c, etc.

Abednego One of the three men who were thrown into the "burning flery furnace" of Nebuchadnezzar (Daniel 1 3) His real name was Azariah

Abel Second son of Adam and Eve He was a shepherd and his story is told in Gen. iv He and his brother Cain sacrificed to God Abel's sacrifice was the more pleasing,

whereupon Cain killed him

Abel Sir Frederick Augustus English inventor and chemist. He was born at Woolwich, July 17, 1827. In 1851 he was made Professor of Chemistry at the R M A., Woolwich, and in 1856 chemist to the War Office In 1887 he became the first director of the Imperial Institute, and in 1890 President of the British Association In 1893 he was made a baronet, and he died on Sept 6, 1902 He invented the Abel Test for petroleum Abel worked at finding out new explosives and with Sir James Dewarwas the inventor of cordite

Abel Robert. English cricketer, born at Rotherhithe, Nov 30, 1859 In 1881 he first played for Surrey and for the next 20 years or more he was one of the greatest batsmen in England. In 1899 he scored 357 not out against Somerset, his highest score He made over 70 centuries and between 1895 and 1902, when he was at his best, scored over 2000 runs in each season In 1901 he scored over 3300 He played for England several times, and two of his sons played for Surrey.

Abelard Pierre French scholar, and the lover of Heloise He was born in Brittany in 1079 and, after spending some years in study, began to lecture in Paris.

Like other thinkers he was accused of heresy, and this interfered with his work. He left Paris and after a time became head of an abbey in Brittany In Paris one of his pupils was the beautiful Heloise. The two were secretly married, whereupon the lady's uncle, Fulbert, thinking she had been seduced, caused Abelard to be mutilated He died April 21, 1142, but Heloise, who became a nun at the time of the separation, lived until 1164 The letters between the lovers have been published. In 1877 they were burled together in Pére Lachaise, Paris.

Abele Another name of the white poplar (populus alba) This is a British tree from 60 to 100 feet in height. It has a smooth grey bark, and the leaves are smooth on the surface and covered underneath with a soft, white cottony substance The wood is used for flooring and box making Sce POPLAR.

Abelia Evergreen shrub A hardy plant, it can be grown out of doors in Great Britain A sheltered position and a good deal of sun are desirable. They can be grown from cuttings taken in October.

Abeokuta Town of Nigeria It is on the Ogun River, 60 m from Lagos It has a good deal of trade and is the capital of the district of Egba.

Aberavon District of Glamorganshire, once a separate borough of Port Taibot (q v)

Abercarn Town and urban district of Monmouthshire, 10 m from Newport on the G. W Rly, and is chiefly a coal mining centre Pop (1931) 20,554

Aberconway Lord. British ironmaster Charles Benjamin Bright M'Laren, a nephew of John Bright, and a son of Duncan M'Laren, M.P., was born May 12, 1850, in Edinburgh, became a barrister, but soon adopted a business careor, and in a few years was at the head of some very important concerns, being one of the leaders of the coal, iron and steel industries. He was a Liberal M.P., with intervals from 1830 to 1910, and he was made a baron in 1911, taking the title of Aberconway. He had been a baronet since 1902. Aborconway's younger son, Francis M'Laren, M.P., was killed while flying, Aug 20, 1917

Abercorn Duke of. Irish title held by Abercorn the family of Hamilton. In 1603 James Hamilton, a Scottish nobleman, was made a baron In 1606 he was made an earl and in 1790 his descendant became a marquess The family settled in Ireland, and in 1868 James Hamilton, the 2nd marquess, was made a duke He was Lord Lieutenant of Ireland His family is described by Lord Beaconsfield in Lothair. The duke died Oct 31, 1885

James, the 2nd duke (1838-1913), was chairman of the British South African Co James, the 3rd duke, was made Governor-Genoral of Northern Ireland in 1922 His eldest son is called the Marquess of Hamilton

Two places in Rhodesia are named Abercorn after the 2nd duke One is a trading station about 10 m from Lake Tanganyika, where, on Nov. 14 1918, the last Germans in arms in Africa surrendered. The other is 90 m from Salisbury.

Aberdare Market town and urban district in Glamorganshire It is on the G. W. Rly, 4 m from Merthyr Tydvil, and 1874 m from London Pop. (1931) 48,751.

Abano Italian watering place called in full Abano Bagni It is 5 m from bury and elsewhere show how large and Padua and nearly 30 from Venice It stands at the foot of the Eugenean Hills Its hot springs, famous in Roman times, are efficacious in Roman times, are efficacious in Roman times, are efficacious of the church of the abbey there, and the springs, famous in Roman times, are efficacious of the church of the abbey there, and the springs famous in Roman times, are efficacious of the churches at Bath and Tewkesbury were for persons suffering from fractures and other injuries, and its mud baths are recommended for neuralgia and the like

Abattoir Place where animals are found in most large cities on both sides of the Atlantic. In Britain the abattoirs are divided into booths, but in America the killing is done in one large apartment. In addition to places for killing, an abattoir should have rooms for hanging the meat, for offal and condemned meat, as well as chambers for cold storage. In 1929 a new abattoir, one of the largest in the world, was crected at Liverpool

Abba Aramale word meaning father It is found in the New Testament where it is used for God In the Coptic Church it is a title of respect given to bishops

Abbas Name of several Oriental rulers Mahomet's Uncle Abbas became callph of Bagdad in 750 and his descendants, called Abbasides, were callphs until 1617.
Another famous Abbas was Abbas the Great,
shah of Persia. He became shah in 1586, took
Bagdad from the Turks and won other victories.

Two rulers of Egypt were named Abbas. The first ruled from 1848 to 1854 Abbas II became Lhedive in 1892 and reigned until Dec., 1914, when he was deposed.

Abbess Feminine of abbot and the head of a convent or house for nuns. She is usually elected by the members of the order and has the same powers as an abbot, except that she cannot act as a priest. The title except that she cannot act as a priest. The title was first used in the 6th century and in the Middle Ages, especially in England and Germany, certain abbesses were very powerful. They were large land holders and took part in ecclesiastical assemblies in Germany one or two ranked as princes. The most powerful abbess in England was the abbess of Romsey

Abbeville City of France It is on the Sommer, 28 miles from Amieus It has a fine old cathedral and other old buildings During the World War the British had hospitals and training grounds here Pop 21,000

Abbey Building or set of buildings, where a community of monks or nuns resides Its head is usually an abbot or abbess S Benedict was the real founder of the abboys S Benedict was the real founder of the abbeys which, in the Middle Ages, sprang up all over Christendom. Each had its cloisters round the quadrangie church, cloisters and chapter house, refectory or dining hall, kitchen, cellars and many other buildings. There was generally a guest house, as the abboys entertained travellers before inns were plentiful. In some the monks had schools for boys.

In one souse the abbey was a large country estate. The monks farmed some of the land, but other parts were let out. They did all the work themselves, growing and preparing the clothes. Each monk had his own particular duties. Some abbeys kept sheep and sold the monks, were usually very rich and powerful, some of them sat in the House of Lords.

Most of the British abbeys were destroyed at the Reformation, but the beautiful ruins at than seven years, but the sentence can be

bury and eisewhere show how large and magnificent they were Westminster Abbey was the church of the abbey there, and the fine churches at Bath and Tewkesbury were also abbey churches The Roman Catholics have abboys in England to day, two being at Downside, near Bath, and Ampletorth, near York At Buckfastleigh in Devon, there is one which has been entirely built by the monks themselves.

monks themselves.

Abbey Edwin Austin American artist.
Abbey Born in Philadelphia, April 3,
1862, he studied art, and drew for Harper's
Magazine and other periodicals. In 1881 he
came to England His paintings soon found
recognition, and he was elected A.R.A. in
1896, and R.A. in 1898 He died in Chelsea,
Aug 1, 1911 Abbey's work includes a series
on the history of Pennsylvania in the Capitol
at Philadelphia, a series at Boston, the official
picture of the operandor of Edward VII, and
"May Morning" In 1931 his house in Chelsea
was bequenthed by his widow to the Royal
Academr Academy

Abbey Theatre Dublin theatro built played a considerable part in the Irish dramatic remaissance. Here were produced the plays of W B Yeats, J B Synge, Lady Gregory, G B Shaw and others

Shaw and others

Abbot Word used for the head of an abbey or monastery. It is a variant of the word abba, meaning father. The French form is abbe. An abbot must be in priest's orders and at least 25 years old. In England, before the dissolution of the monasteries, some of the abbots had great power and their privileges included seats in the House of Lords.

Abbot's Bromley village of Statform Stafford and 123 from London. It is famous because a mediaeval performance called the Horn Dance takes place here at the fair in July, and at the Wales on a Monday in September.

Abbotsbury 7 m from Dorset, on the G W Rly There are ruins of an abbey Here is Abbotsbury House, a seat of the earl of Richester, famous for its swannery and its sub tropical gardens Pop 620

Abbotsford Residence of Sir Waiter Scott. It is on the River Tweed, 3 m from Meirose, and quite near the border between England and Scottand. Sir Waiter built the house and lived here until his death. Part of it is now a museum where are many Scott relies

Abdomen Lower part of the trunk. The old name for it is the belly It is divided into two parts the abdomen proper containing the stomach, intestines, liver, spleen and kidneys, and the pelvis that contains the bladder and the genttal organs It is lined with a membrane called the peritoneum To-day surgeons are able to open up the abdomen and in this way they have done some remarkable work in curing

more severe if the person abducted is the like other thinkers he was accused of heresy, owner of property or the heiress to property, and this interfered with his work. He left special penalties are inflicted upon those who Paris and after a time became head of an

abduct girls under 18

Abdul Hamid Two sultans of Turkey. from 1773 to 1789 Abdul Hamid II., born Sept. 22, 1842, began to rule in 1876 Turkey was in dreadful disorder, and in his reign she lost much territory, but the Sultan himself was very clever in his dealings with Great Britain and other countries, who rarely got the better of him The massacres of the Armenians made him known as the Great Assassin and Abdul the Damned, but he went on his way un-disturbed until a revolt broke out in 1909. He was then deposed and was a prisoner until he died in Constantinople, Feb 11, 1918

Abd-ur-Rahman Name of several Arab rulers. Three of them were Callphs of Cordova between 786 and 961 An earlier one led a vast horde of Saracens who were routed by Charles Martel (Charles the Hammer), at Tours in 732 Later an Abd-ur-Rahman was Sultan of Morocco, 1823-59, but the most famous was an Amir of Afgherican Hammer and the property of the content of the conten Aighanistan He seized the throne in 1880 and remained amir until his death, Oct. 3, 1901, during which time he won for his country an influential position

Abecedarian Word, made of the letters A B C D, meaning "concerning the alphabet." Abecedarians were an Anabaptist sect founded in Germany in the 16th century by Nicolaus Storch. They refused to learn anything, even the A B C, their idea being that knowledge prevented the soul's close contact with the Delty Abecedarian hymns are hymns or poems in which each verse or line commences with a letter of the alphabet in order, a, b, c, etc.

Abednego One of the three men who were thrown into the "burning flery furnace" of Nebuchadnezzar (Daniel
3) His real name was Azariah

Abel Second son of Adam and Eve He was a shepherd and his story is told in Gen. iv He and his brother Cain sacrificed to God. Abel's sacrifice was the more pleasing,

whereupon Cain killed him.

whereupon Cain killed him.

Abel Sir Frederick Augustus English inventor and chemist. He was born at Woolwich, July 17, 1827. In 1851 he was made Professor of Chemistry at the R.M.A., Woolwich, and in 1856 chemist to the War Office In 1887 he became the first director of the Imperial Institute, and in 1890 President of the British Association. In 1893 he was made a baronet, and he died on Sept. 6, 1902 He invented the Abel Test for petroleum. Abel worked at finding out new explosives and with Sir James Dewarwas the inventor of cordite. with Sir James Dewarwas the inventor of cordite

Abel Robert. English cricketer, born at Rotherhithe, Nov 30, 1859 In 1881 he first played for Surrey and for the next 20 per played for surrey and for the next 20 years or more he was one of the greatest batsmen in England. In 1899 he scored 357 not out against Somerset, his highest score He made over 70 centuries and between 1895 and 1902, when he was at his best, scored over 2000 runs in each season. In 1901 he scored over 3300 He played for England several times, and two of his sons played for Surrey times, and two of his sons played for Surrey.

abbey in Brittany. In Paris one of his pupils was the beautiful Heloise The two were Fulbert, thinking she had been seduced, caused Abelard to be mutilated He died April 21, 1142, but Heloles, who became a nun at the time of the separation, lived until 1164. The letters between the lovers have been published. In 1877 they were buried together in Pere Lachaise, Paris

Abele (populus alba) This is a British tree from 60 to 100 feet in height. It has a smooth grey bark, and the leaves are smooth on the surface and covered underneath with a soft, white cottony substance. The wood is used for flooring and box making See POPLAR.

Abelia Evergreen shrub A hardy plant, it can be grown out of doors in Great Britain A sheltered position and a good deal of sun are desirable. They can be grown from cuttings taken in October

Abeokuta Town of Nigeria It is on the Ogun River, 60 m from Lagos It has a good deal of trade and is the capital of the district of Egba

Aberavon District of Egba
Aberavon District of Glamorganshire,
once a separate borough.
In 1921 it was made part of the new borough
of Port Talbot (q v)
Abercarn Town and urban district of
Newport on the G W Rly, and is chiefly a
coal mining centre Pop (1931) 20,554.

Lord. British Aberconway master. Charles Beniamin Bright M'Laren, a nephew of John Bright, and a son of Duncan M'Laren, M P., was born May 12, 1850, in Edinburgh, became a barrister, May 12, 1850, in Edinburgh, became a barrister, but soon adopted a business careor, and in a few years was at the head of some very important concerns, being one of the leaders of the coal, iron and steel industries. He was a Liberal M.P., with intervals from 1880 to 1910, and he was made a baron in 1911, taking the title of Aberconway. He had been a baronet since. 1902. Aberconway's younger son, francis Milaran M.P. was killed withing. since 1902 Aberconway's younger son, Francis M. Laren, M.P., was killed while flying, Aug 20, 1917

Abercorn Duke of Irish title held by the family of Hamilton. In 1603 James Hamilton, a Scottish nobleman, was made a baron In 1606 he was made an earl and in 1790 his descendant became a marquess The family settled in Ireland, and in 1868 James Hamilton, the 2nd marquess, was made a duke the was Lord blevtenant of luke He was Lord Lieutenant of His family is described by Lord made a duke Ireland. Beaconsfield in Lothair. The duke died Oct. 31, 1885

James, the 2nd duke (1838-1913), was chairman of the British South African Co James, the 3rd duke, was made Governor-General of Northern Ireland in 1922 His eldest son is called the Marquess of Hamilton

Two places in Rhodesia are named Abercorn after the 2nd duke One is a trading station about 10 m from Lake Tanganyika, where, on Nov 14 1918, the last Germans in arms in Africa surrendered. The other is 90 m from

Abelard Pierre. French scholar, and the lover of Heloise He was born in Brittany in 1079 and, after spending some G.W. Rly, 4 m from Merthyr Tydvil, and years in study, began to lecture in Paris 1671 m. from London Pop (1931) 48,751.

Abano Italian watering place called in full Tintern, Fountains, Kirkstall, Melrose, Glastonat the foot nearly 30 from Venice 5 m from bury and elsowhere show helpose, Glastonfor persons suffering from tractures and colors in Roman times, are effected in the church of the Westminster Abary was the churcher of the westminster Abary and its mud baths are recommended also abbers at Bath abbres and the like are recommended as abbres in England to day, two Catholics are slaughtford for food They are slaughtford for food They are no hoth sides of the monks themselves on their being at the Edwin Austin American artists.

for neuralgia and the like

Abattoir Place where animals are
Abattoir Place where animals are
found in most large cities on both sides of the
Atlantic in Britain the abattoirs are sides of the
into booths, but in America the killing divided
in one large apartment. In the killing is done
for killing, an abattoir be ould didtion to places
for killing, an abattoir be addition to places
hanging the meat, for solid have rooms for
large, as well as chambers for and condemned
world, was erected at Liverpool

Atamalo word meaning father It

Abba Aramale word meaning father It where it is used for God. In the Coptic Church where it is used for God. In the Copies it is a title of respect given to bishops.

Abbas Name of several oriental rulers Caliph of Bagdad in 750 uncle Abbas became called Abbasides, were called Abbasides, were called Spandad in 750 uncle Abbasides, were called Abbasides, were called Abbasides, were called Abbasides, were called Bagdad in 1617, were called Abbasides, to several in 1618 and won other famous Abbas was Abbas the 1617, Bagdad from the became shah in 1686, took victories.

Victories.
Two rulers of Egypt were named Abbas.
The first ruled from 1848 to 1854 Abbas.
Dec., 1914, when he was deposed.

To restrict the restrict of the re

Abbess Feminine of about and the head she is usually of a convent or house for nums order and has elected by the members of the expent that she cannot acr powers as an abbot, was first used in the 6th as a priest, The title Middle Ages, especially in England in the Germany, certain abbesses were very powerful, two ranked as a princes in Germany one or two ranked as princes. The most powerful abbess in England was the abbess of Romsey of the Ahharmila City of France It is on the Abbess Feminine of abbot and the head

Abbeville City of France It is on the Abuldings During the World War the British had hospitals and training War the Pop 21,000

Abbey Building or set of buildings, where resides its head is usually an abbot or abbess. Ranadist was the real foundar of the abboss. resides its head is usually an abbot or abbess S Bonedict was the real founder of the abbess which, in the Middle Ages, sprang up all over Quadrangle church, cloisters and chapter house, as the center of uning hall, kitchen, cellars and though the company other buildings There was centerally a part of the company of the

ABDUCTION

te monks themselves oeon entreiv built by the monks themselves of Abbey Edwin Austin American artist.

d Abbey Edwin Austin American artist.

1852, he studied art, and derphia, April 8, and agazine and other periodicals for Harper's came to Endough Harper of Harper's lected to the studied and His paintings in 1881 he lected A.R.A. in 1898, and R.A. in 1898 He eded d.R.A. in 1891. Abbey's work includes Chelsea, at Philadelphia, a series at Boston, the Capitol at Philadelphia, a series at Boston, the Capitol May Morning." In 1931 he dward VIII, and Academy.

Abbey Theatre Dublin theatre built played a considerable part in the Irish dramatic warm produced the player of Played a considerable part in the Irish dramatic remaissance. Here were produced the playe of Shaw and others

Played a considerable part in the Irish dramatic remains and great of the playe of the played part in the Irish dramatic remains and the played part in the Irish dramatic part in the Ir

Abbot Word used for the head of an abbey word abba, meaning father The French form a shoot must be in principle or and word abba, meaning father. The French form is abba An abbot must be in priest's orders and at least 25 years old. In England, orders and dissolution of the monasteries some of the monasteries some of the included seats in the House of Lords.

Abbot's Bromley village of Stafform Stafford and 128 from fordshire, 14 m. amous because a mediacval performance called

from Stafford and 128 from London, it is the Horn Dance takes place here at the fair in September at the Wakes on a Monday in

Abbotsbury Market town of Dorset, on the G W Rly There are ruins of an abbey of Here is Abbotsbury House, a seat of the earl sub-tropical gardens for its swannery and its National Residence of Pop 620

Abbotsford Residence of Sir Walter Tweed, 3 m. from Melorse, end quite near the Walter between England and Scotland. Sir Walter between England and Scotland. Sir his death. Part of it is now a museum where Abdomage Lower Part of Market Part of Ma

are many Scott relics

Abdomen Lower part of the trunk.

Abdomen Lower part of the trunk.

Abdomen Lower part of the trunk.

Abdomen proper containing the stomath of its the stomath of t before inns were plentiful. In some the monks

In one sense though the abbety was a large country

estate. The monks farmed some of the land, able to open the line of with a membrane state. The monks farmed some of the land, able to open the monks of the land, able to open the abdome and with a membrane of the sparing the longer of the save done some remarkable with this way to traders. The abbety sheep and sold the sold the sheep and sold the lower orders there is no marked duties. The about the sheep and sold the sheep and sold the sheep and sold the sheep and sold the lower orders the there is no marked dutin the about of the British abbety swere destroyed.

Abduction Taking away a chief the Reformation, but the beautiful ruins at the Reformation, but the beautiful ruins at the near the sentence can be

more severe if the person abducted is the owner of property or the heiress to property. Special penalties are inflicted upon those who abduct girls under 18

Abdul Hamid Two sultans of Turkey.

Abdul Hamid I reigned from 1773 to 1789 Abdul Hamid II, born Sept 22, 1842, began to rule in 1876 Turkey was in dreadful disorder, and in his reign she lost much territory, but the Sultan himself was very clever in his dealings with Great Britain and other countries, who rarely got the better of him. The massacres of the Armenians made him known as the Great Assassin and Abdul the Damned, but he went on his way un-disturbed until a revolt broke out in 1909. He was then deposed and was a prisoner until he died in Constantinople, Feb. 11, 1918

Abd-ur-Rahman Arab rulers Three of them were Caliphs of Cordova between 786 and 361 An earlier one led a vast horde of Earacens who were routed by Charles Martel (Charles the Hammer), at Tours in 732 Later an Abd-ur-Rahman was Sultan of Morocco, 1823-59, but the most famous was an Amir of Morocco, The Charles the Martel Charles and Amir of Morocco, 1823-59, but the most famous was an Amir of Morocco, 1823-59, but the Morocco, 182 Afghanistan He seized the throne in 1880 and remained amir until his death, Oct 3, 1901, during which time he won for his country an influential position.

Abecedarian Word, made of the letters A B C D, meaning "concerning the alphabet." Abecedarians were an Anabaptist sect founded in Germany in the 16th century by Nicolaus Storch. They refused to learn anything, even the A B C their idea being that knowledge Storch. They refused to learn anything, even the A B C, their idea being that knowledge prevented the soul's close contact with the Delty Abecedarian hymns are hymns or poems in which each verse or line commences with a letter of the alphabet in order, a, b, c, etc.

Abednego One of the three men who were thrown into the "burning flery furnace" of Nebuchadnezzar (Daniel i 3) His real name was Azariah.

Abel Second son of Adam and Eve He was a shepherd and his story is told in Gen iv He and his brother Cain sacrificed to God. Abel's sacrifice was the more pleasing, whereupon Cain killed him

Abel Sir Frederick Augustus English inventor and chemist. He was born at Woolwich, July 17, 1827. In 1851 he was made Professor of Chemistry at the R M A., Woolwich, and in 1856 chemist to the War Office In 1887 he became the first director of the Imperial Institute, and in 1890 President of the British Association In 1893 he was of the British Association In 1893 he was made a baronet, and he died on Sept 6, 1902 He invented the Abel Test for petroleum. Abel worked at finding out new explosives and with SirJames Dewarwas the inventor of cordite

Abel Robert. English cricketer, born at Rotherhithe, Nov 30, 1859 In 1881 he first played for Surrey and for the next 20 years or more he was one of the greatest batsmen in England In 1899 he scored 357 not out against Somerset, his highest score He made over 70 centuries and between 1895 and 1902, when he was at his best, scored over 2000 runs in each season. In 1901 he scored He played for England several times, and two of his sons played for Surrey

Abelard Pierre French scholar, and the lover of Helolse He was born in Brittany in 1079 and, after spending some years in study, began to lecture in Paris

Like other thinkers he was accused of heresy, and this interfered with his work. He left Paris and after a time became head of an abber in Brittany In Paris one of his pupils was the beautiful Heloise. The two were secretly married, whereupon the lady's uncle, Fulbert, thinking she had been seduced, caused Abelard to be mutilated. He died April 21, 1142, but Heloise, who became a nun at the time of the separation, lived until 1164. The letters between the lovers have been published. In 1877 they were buried together in Pere Lachaise, Paris

Abele Another name of the white poplar (populus alba) This is a British tree from 60 to 100 feet in height. It has a smooth grey bark, and the leaves are smooth on the surface and covered underneath with a soft, white cottony substance. The wood is used for flooring and box making See POPLAR.

Abelia Evergreen shrub A hardy plant, it can be grown out of doors in Great Britain A sheltered position and a good deal of sun are desirable. They can be grown from cuttings taken in October.

Abeokuta Town of Nigeria It is on the Ogun River, 60 m. from

Lagos It has a good deal of trade and is the capital of the district of Egba

Aberavon District of Glamorganshire, once a separate borough. In 1921 it was made part of the new borough

of Port Talbot (qv)

Abercarn Town and urban district of
Monmouthshire, 10 m from
Newport on the G W Rly, and is chiefly a
coal mining centre Pop (1931) 20,554

Lord British Aberconway master Charles Benjamin Bright M'Laren, a nephew of John Bright, and a son of Duncan M'Loren, M.P., was born May 12, 1850, in Edinburgh, became a barrister, but soon adopted a business career, and in a few years was at the head of some very important concerns, being one of the leaders of the coal, iron and steel industries He was a Liberal M P., with intervals from 1880 to 1910, and he was made a baron in 1911, taking the title of Aberconway He had been a baronet since 1902 Aberconway's younger son, Francis M'Laren, M.P., was killed while flying, Aug 20, 1917

Abercorn buke of Irish title held by Abercorn the family of Hamilton. In 1603 James Hamilton, a Scottish nobleman, was made a baron In 1606 he was made an earl and in 1790 his descendant became a marquess The family settled in Ireland, and in 1868 James Hamilton, the 2nd marquess, was made a duke He was Lord Lieutenant of Ireland. His family is described by Lord Beaconsfield in Lothair The duke died Oct. 31, 1885

James, the 2nd duke (1838-1913), was chairman of the British South African Co James, the 3rd duke, was made Governor-General of Northern Ireland in 1922 His eldest son is called the Marquess of Hamilton

Two places in Rhodesia are named Aborcorn after the 2nd duke One is a trading station about 10 m. from Lake Tanganyika, where, on Nov 14 1918, the last Germans in arms in Africa surrendered. The other is 90 m from Salisbury

Aberdare Market town and urban district in Glamorgaushire It is on the GW. Rly, 4 m from Merthyr Tydvil, and 1874 m. from London. Pop (1931) 48,751.

ABERDEEN ABERDEEN

The title of Baron Aberdare was taken by Henry Austin Bruce A landowner here, he was M.P. for Merthyr, 1852 73, and was Home A secretary 1868-73 He became a peer in 1873 F. Aberdare Mts in the Abe The chief buildings include Marischal College, King's College and other parts of the university, the Art Gallery and St. Machar's Cathedral in 1932 it was proposed to build a new cathedral as a memorial to Samuel build a new cathedral cross is nearly 250 years old. Two of the city latter is nearly and be altownie built in the clambury and be altowned built in the remarks of its coats of arms and inscriptions. There is a wireless station and several parks

bridges still stand. Balgownie built in the famous for its coats of arms and inscriptions. There is a wireless station and several parks the sea front, nearly for its coats of arms and several parks. There is a promenade along the sea front, nearly for its coats. Shipbuilding yards, engingering fish market. Shipbuilding yards, engingering and chemical works, and paper mills are other industries. Grantle polishing is carried on There is a large horbour and she early foot for scottish title borne is a large horbour and first earl, George Gordon, was a lawyer and a paper and

eldest son, Lord Haddo, became 2nd marquess

Aberdeenshire County or Scotland.

Aberdeenshire County or Scotland.

east, and has a long stretch of the norththe North Sea and its openings it is 8th northlong and covers 1971 openings it is 8th northcounty town. Other places are Peterhead and of the county town.

Fraserburgh, on the coast, and Invernice it the Allord, Turriff and Huntly Inlend. With a county it is ended the coast.

Edward Huntly in the Land.

Edward Hunt

ABERYSTWYTH

Aberdour Pleasure resort of Fifeshire.
Forth, 18 m from Edinburgh, on the Firth of Rly Near are the rules of a castle L.N.E.
the Earls of Morton lived Pop 3100

Diagrams resort in Mario.

Aberdovey Pleasure resort, in Merio-Towyn on the G W Rly, just where the River Dovey flows into the sea. Pop 1500

Dovey flows into the sea. Pop 1500

Aberfeldy Burgh and market town of Tay, 32 m from Perthehire It stands on the and is reached by the L M S from Edinburgh, around, referred by the L M S Riy The scenario, by Purns in The School Birds of School Burgs a great attraction. Pop (1931)

Aberfoyle Village of Perthahire Itstands of the Lagran, 27 m. from Edinburgh on the Lagran, 27 m. from the sensitive of the Lagran, 27 m. from the sensitive of the midst of beautiful scenery it is the sensitive of incidents mentioned in Roy it is the sensitive of the midst of beautiful scenery it is There is the inn where Rob and in Roy Roy and Alpine's Inn are just outside the village. Pop

Applies a limit are just outside the vinage. Pop is here is the nouth of Monmouth as which here falls into the Usk, is Monmouth and is into the Usk, is made an in from lond in ruins, and in 1392 one of them took the other falls into the Usk, is made as on the ruins, and in 1392 one of them took the itile of Baron in 1392 one of them took the descendant was made an earl, and in 1878 his family is now chiefly associated with Susser and Kent, where is Eridge Castle, his chief seat.

Abergele Watering place and market from Liandudno and 214 from London, 12 m. Pop (1931) 2651

Aberolaslyn Pass in Wales It is borders of Carnarvonshire and Merionethalire, and is made by the little River Glaslyn dowing

between steep rocks.

Abernethy John. English surgeon.

April 3, 1764, and educated at Wolverhampton.

For long he worked at at Wolverhampton.

Hospital, Loe worked at at Wolverhampton.

Burthologor of Anatomy at the Royal College of that local diseases are chiefly due to disease of the Royal College o

Abersychan Urban district of Mon-from Newport on the GW Riv It is 10 m. working Pop (1931) 25,627, tin and from

Abertillery Town and urban district on the G W Rly, of Monmouthshire. It is miners, iron and tin workers, and their coal pendents form a large part of the population.

Aberystwyth Borough pleasure reof Cardiganshire It is 210 m from London
has a good beach and a fine From ended to the first town
has a good beach and a fine Fromenade along the
sca front. In the neighbourhood is the
mydise. There is a small harbour In 1872

#### ABEYANCE

Abeyance Period during which an estate or title has no holder. In England it is chiefly used in connection with peerages Certain titles, when there are no sons, descend to daughters. If there is only one daughter she inherits, but if more than one the peerage goes into abeyance, as all are equally entitled to it. An abeyance is ended when only one heiress is left, or when the crown gives the title to one of the co-heiresses Abeyance chiefly affects baronies created by writ of summons In most other titles the patent states how the title shall descend. There is no abeyance in Scottish peerages

Abiathar Jewish high priest. He was a son of Ahimelech, also high priest. He fied to David when his father was killed by Saul and became one of his friends. In the time of Solomon he revolted with Adonijah "so Solomon thrust out Abiathar from being priest unto the Lord" (1 Kings 11 27)

Abigail Two characters in the Bible One was the wife of Nabal and afterwards of King David. When David was an outlaw in the wilderness of Paran and Nabal refused to feed him, he became acquainted with Abigail and after Nabal's death he married her (1 Sam xxv.) The other Abigail was David's sister, the mother of Amasa.

Abingdon Borough of Borkshire It oxford, on the GW Rly Clothing and carpets are made, and there is a trade in agricultural produce As abbots' town the place grew up around an abbey, one of the richest in England, and was important in the Middle Ages, sending members to Parliament until 1885 Pop (1931)

7240
The title of Earl of Abingdon has been held by the Bertie family since 1682
The present earl lives at Wytham Abbey, near Oxford, and his eldest son is called Lord Norreys

Abington Frances English actress. Born she was until her marriage, sold flowers and sang in the streets before appearing on the stage In 1755 she appeared at the Havmarket Theatre, London, and after a few years was invited by Garrick to join him at Drury Lane There, and later at Covent Garden, she was for over 20 years the leading actress. She played Lady Teazle when The School for Scandal first appeared, and her portrait was painted by first appeared, and her portrait was painted by Reynolds She died in 1815

Abishai Biblical character A son of Zorulah, he was a nephew of King David, who took him with him into Saul's camp where he had a chance to kill the sleeping king. Abishai's other exploits are told in 2 Samuel.

Abkhasia Soviet republic in the Cau-Republic of Georgia. Sukhum is the capital Abner Biblical character. He was Saul's cousin and the captain of his army (1 Sam. xiv and 2 Sam. ii and iii)

Abney Park District of London It is which was opened in 1840. It is in the borough of Stoke Newington and is named after Sir Thomas Abney

the first university college in Wales was opened here. The National Library of Wales is also in the town Pop (1931) 9474 near the Baltio Sea, 160 m from Helsinki There is a good deal of shipping, and ship building is carried on Pop (1930) 66,654

First inhabitants of a country. In North Aborigines country. America the Indians are regarded as aborigines, and in New Zealand the Maoris. There are

aborigines also in Australia.

The Aborigines Protection Society, now included in the Anti-Slavery Society, has done much to prevent their extinction

Abortion Emptying of the pregnant womb in English law it is a crime to use artificial means to expel the contents of the womb during pregnancy. Any person who assists in such an act, either by using drugs or instruments, may be charged with murder. Abortion may be caused by with murder Abortion may be caused by natural means, in which case it is popularly known as a miscarriage.

Aboukir Village of Egypt on Aboukir Bay, 10 m from Alexandria. Near are the ruins of Canopus and other remains of Egyptians and Romans In the bay Nelson won the battle of the Nile (1794), and near the village Napoleon defeated the Turks, July 25, 1799, and Sir Ralph Aber-crombic defeated the French, March 21, 1801

Village of Aberdeenshire, some-Aboyne times called Charleston It is ns It famous for its castle, a seat of the Gordons It is 10 m from Ballater, and is on the L.N E Highland games are held here every year Pop 1500

Abracadabra Magic word, at one time used to charm away illness or danger. It was usually written out on parchment in the form of a triangle, each line being a little shorter than the one before it, and was worn round the neck.

Abraham Founder of the Jewish nation, also called Abram He was the son of Terah and lived at Ur of the Chaldees, a Bahylanian att. Chaldees, a Babylonian city, between 2000 and 1800 B o Later he moved into Canann, taking with him his nephew Lot. Owing to famine he was for a time in Egypt, but soon he returned to Canaan and settled near Hebron By his wife Sarah he had a son, Isaac, the ancestor of the Jews His other sons included Ishmael, borne by another wife, Hagar He was buried at Machpelah, where a Christian church and a mosque were built.

The incidents of Abraham's long life are found in Genesis, xi -xxv

At one time lunatics from Bethlem Hospital, London, were allowed to go out and beg. As they came from Abraham's ward, as it was called, they were known as Abraham Men, and so were the many vagabonds who followed their example

ABRAHAM, PLAINS OF. Heights outside the city of Quebec. Here, on Sept. 13, 1759, the British under Wolfe beat the French under Montcalm, and so won Canada. The Plains have been public ground since 1908, and on them is a monument to Wolfe and Montcalm.

Abrasive Pollshing material employed manufacturing industries Carborundum and emery are and examples, both being used in preparing metal A grindstone is an abrasive and so is pumice stone Artificial abrasives are now made by electric power

Abraxas Mystlo word. It was engraved on precious stones used in rings Abo City and seaport of Finland, called by ADIAXAS on precious stones used in rings the Finns Turku. It stands on a river and other ornaments. It contains seven Greek

letters which when used for numbers make up 365, supposed to be a mystic figure it was first used by the Gnostics early in the Unristian first used by the Gnostics early in the Ohristian ora, In the Middle Ages abrains amulets were era. In the Middle Ages abraxas amulets were much worn as charms abraxas amulets were The Abraxas Moth, sometimes called the Magpie Moth, is very harmful to small truit

ADIUZZi Plural of Abruzzo and used to Abruzzi Part of Italy The title of Duke of the of Italy The title of Duke of the of Italy Born in Madrid, Jan 29.

In 1897 he ascended Mt. S. Ellas, and explorer to the wort to be seen of the interest of the wort to be an explored of the worth of the second of the second

ADSAIOM David's favourite son. His sa he grew up he mother was Bathsheba, and his waywardness. He was extled for his beauty and a revolt and soon David was exiled, so he headed for a battle which followed David's men from hair caught on a battle which followed David's men won, found and killed, sgainst David's orders, by the content of the same of the same was the same found and killed, sgainst David's orders, by the same same same was the same was the same was the same was content, and the same was content, by the same was content, by the same was content, and the same was content, by the same was content, and the same was content, and the same was content, by the same was content, and the same was content, an

ADSCESS Collection of pus or purulent ADSCESS Collection of pus or purulent Acute abscesses form quickly and cause freat with little or no pain, and are due to the sowly with little or no pain, and are due to the pain. pain in so doing, cold absoesses form slowly with little or no pain, and are due to tuberoumax erso bioquee an apsocess roam timuth tomomen of sel

may also produce an aboses

Treatment—An Abscess of the Gum or Gumboll, causes severe pain and throbbing in the length of the affected tooth, and a since the removal of the tooth will proposible, the only cure if delay is unworldably be the cheek or the day is unworldably be containing and hold hot to fomentations to the cheek and hold hot to fomentations to the patient is able to relieve the patient in the most of the containing and hold hot to fomentations to the patient is able to take this drug.

A Painless Abscess sometimes forms at the internal patient is able to take this drug.

the patient is able to take this drug

A Painless Abscess sometimes forms at the root of a dead tooth, and is dangerous to from at the poisons to the blood. In a persistent their found, it is a for which no cause can be conditioned and to have the ceth Abscess within the Ear.—Earache accom-

Will be revealed Abscess within the Ear.—Earache accompanied by discharge, or of an unusually severe or persistent nature, should receive immediate attention. As an abscess may have or persistent nature, should receive immediate medical attention, as an abscess may have formed and an operation may be may have application of heat treatment other than the or a rubber bottle to the form of het finnels the containing a large large.

Absinthe Liqueur containing a large proportion of alcohol. It is and other aromatic substances, the wormwood made from wormwood, anise, hyssop, angelica and other aromatic substances, the wormwood being the potent ingredient. It is green in destructive and its sale of the substances of its except of the substances of its except.

Absolution Forgiveness of sins, proof England it is pronunced by the mame of
at both morning and evening prover, inst after at both morning and evening prayer, just after

the people have said the general confession.
In the Roman Catholic Church it is pronounced
the individual action confession. In the Roman Catholic Church it is pronounced by the Pricet to the individual after confession and this practice is followed by some Anglican of absolution for the dead, ABYSSINIA

of absolution for the dead.

Absorption Sucking up of one subinstance, some light is absorbed another. For
water through which it passes the air or
shorbed, the absorption of Gases and so it
are able to absorp the substitution of the complex.

At 1.— Applie word for father. It is much

Abu Arable word for father It is much an in Ecrept Hora on Jan 17 ADU Arouse in the names of places Abu Rica and Abu Kru are in Egypt. Here on Jan. 17 and 19, 1885, a small British force Jan. 17 dervishes The attentions was attacked by relieve Gordon at Khartoun, was attacked by the British leader, Sir Herbert Stewart, but killed. At Abu Simbel on the Nile there was attacked by some wonderful rock temples, with sculptured figures 65 th ligh, built by Rameses II. At Turks, July 14, 1918 the British defeated Name of two ancient cities

the Turks, July 14, 1918

Abydos Name of two ancient cities one was on the Hellespont, Just across to see Hero, and here the Persians under Swam Arraes arossed on a bridge of boats in 480 B of the Persians under the Persia across to see Hero, and here the Porsians under Xerxes crossed on a bridge of boats in 480 Hero Calro, it here the Wile, 350 m. from land and the burial he greatest cities in from list of the rulers of Egypt, carved in the stone by order of Sete I.

by order of Sete I.

Abyssinia Country of Africa, its official an independent name being Ethiopia. It is is about 350,000 state or employed. It is area is about 350,000 state or experience its area inabitants. Egypt lies to the 5 500 000 in the french and British territory, is the Red Sea.

There are many mountains, some as high as French and British territory, is the Red Sea.
There are many mountains, some as high as
males the climate rather less hot than it would
the numerous rivers held to makes the climate rether less hot than it would the Nile Lake Tsana in the north is the

the makes the canality of the numerous rivers near other vise be the The numerous rivers near other in the feed the Nile Lake Teans in the north is the bearing of the total and the north is the other in the centre of the towns are Harrar Directly in the centre of the towns are Harrar Directly in the centre of the results of the results and in 1933 the Indian replication of the control of the c

of the Coptic Church from Egypt, but the Danakilis are Mahommedans There are also

a number of Jews

In 1868 a British army invaded Abyssinia, because the Emperor Theodore, who had made himself ruler, imprisoned some British officials Theodore was soon defeated, and after a time, in 1889, Menclek, King of Shoa, became emperor. He made Abyssinia really independent, and there was great surprise when in 1896 his soldiers defeated an Italian army at Adowa Menelek died in 1913, and there was a certain amount of disorder The new ruler was deposed in 1916, and Monelek's daughter was declared empress A regent, Ras Taffari. was appointed to govern and to succeed when she died. In 1928, after some trouble between the two, the regent was crowned king, and in 1930 emperor, under the style of Halle Silassic L In 1923 Abyssinia joined the League of Nations

In Oct, 1935, following a frontier dispute, Italian troops invaded Abyssinia, and a few days later war was declared A notable incident in the 1935 operations was the fall of Adowa The League of Nations, when peace plans fell through, imposed sanctions against Italy as the

aggressor

Acacia Name of several shrubs and trees, one being the wattle of Australia. They grow chiefly in tropical countries and are usually found on the edges of deserts. Drugs and gums are obtained from some of them Drugs Some acacias will grow in greenhouses in England. The tiny flowers, which are grouped into globular heads, are vellow, white or red The acacia tree which is found in British and the state of the part of of the gardens is a false, not a real, acacia (robinia)

Academy Centre of learning Plato called the Academy This was a grove of clive and plane trees called after Academus, who once owned it Thus the word has come to be used for learned societies, schools, etc

The most famous foreign academies are the Academie Française, founded in 1636 with its 40 members, known as the Immortals, and the Accadémia della Crusca, founded in Florence in 1682 In Britain the chief academies are the Royal Academy of Arts which holds an annual exhibition of pictures at Burlington House, London, and the British Academy, for the promotion of historical, philosophical and philological studies, which was founded in 1900 philological studies, which was founded in 1900 Dublin has the Royal Irish Academy. The Royal Society and the Royal Society of Edinburgh are really academics The Royal Scottish Academy of Painting, Sculpture and Architecture was founded in 1826 and incorporated in 1838 In Scotland schools are often called academics called academies

Acadia French name for Nova Scotia, Qv) It was used until the British took it in 1713 A university at Wolfville in that country is called Acadia University

Acanthus Herb grown in Southern Europe, and sometimes seen in English gardens There are two kinds—one smooth, the other prickly They have very fine leaves and their design was probably copied by the Greeks when they first carved the capitals for their Corinthian columns

Accent In pronunciation the prominence given to a certain syllable in a word. It is also used for the way in which a person speaks, as when we say a man has a French, a Cockney or Lancashire accent. An accent is also a mark used to help pronunciation

These are not found in English, except occasionally in poetry to show that e, ed, or en are separate syllables. The French have three, the grave (') and the acute ('), placed over the letter e, and the circumflex (') which shows that an s has been omitted Spanish has an accont, an s has been omitted spanish has an accord, the tilde ("), which shows that n should be pronounced as nyi, as in canon The cedilla (,) placed under c to soften its sound, and the diaresis (") which shows that two vowels coming together must be pronounced separately are not really accents.

Accentor Name of a group of birds that includes the hedge sparrow, quite a different bird from the house sparrow I'he Alpine Accentor lives in the mountains of Central Europe It is a little larger than the hedge sparrow.

Acceptance Legal and business term
The acceptance of a contract makes it valid, but it must be acceptance without reservation A bill of exchange (q v) is accepted when the person against whom it is drawn signs it and writes, or stamps, the word

accepted across it.

Term used in English Law Accessory There are two kinds accessory, as a person who takes a secondary part in an offence is called An accessory before the fact is one who, though he was absent when the crime was committed, yet assisted in some way. An accessory after the fact is one who, although he knows a crime has been committed, assists the committer of it to escape Both accessories can be punished, though less severely than a principal

Accident Happening or event that is without premeditation, or deliberation, something due entirely to chance Accidents may be divided into industrial, those that happen in the course of one's employment, and non-industrial Provided that he or she does not earn over £350 a year, every employee can obtain damages from his employer if he is injured, without negligence on his own part, while at work. The law is contained in the Workmen's Compensation Acts and the employers usually cover the risk by insuring

Railways and other companies that carry passengers for hire are liable to pay damages if persons are killed or injured through any negligence on the part of the company's servants Persons injured on the roads can obtain damages, if they can prove negligence, and motorists are now obliged to insure against accidents to third parties

accidents to third parties

Some penny daily papers pay compensation to registered readers who meet with accidents, and accident insurance forms an important branch of insurance work Accidents on railways and mines are followed by an inquiry These are conducted by into their causes officials of the Home Office Flying accidents are inquired into by the Air Ministry

Accordion It was invented in Vienna in 1529. It has a keyboard and by pressing the keys the bellows force the wind on to metal reeds which sound the various notes

Accountancy The profession of one who deals with accounts It is an open one, that is, any person can practise accountancy in the United Kingdom without being required to hold any qualifications He will, however, have a better chance of success if he qualifies for membership of one of the leading Institutes or Societies, which are as follows .-

```
ACCOUNTANCY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (1) The Institute of Chartered Accountants
of England and Wales, chief office
(2) The Institute of Chartered Accountants
(3) The Institute of Chartered Accountants
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (2) The Institutes of Chartered Accountants in Scotland, of which there are three, of Incorporated Accountants of Society of Incorporated Ac-
                                                                                                                                                                                                                                                                          with offices in Edinburgh, Glaggow, and Abordeen. Edinburgh, Glaggow, Countants and Anditors with its countaints and Anditors with its to the title "Chartored (2) secures the right of (1) and (2) secures the right (1) the countaint, its right (2) the countaint, its right (3) the countaint of the secures the right (3) the countaint of the secures the right (3) the countaint of the secures of (2), the countaint of the secure is the corporated. Members of the secure is the corporated of the countaints of the secure is the corporated of the countaints of the secure is the consecurity of the proposed of graduates of the countaints of the consecurity of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Accountancy qualification of description. (See also HUBINDER)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A CCTA Capital of the above A CCTA Capital of the Gold Coast Colony and from it food deal coast of west Africa.

A CCTA Capital of the Gold Coast Colony and from it food deal coast of west Colony and from it food deal coast of west Africa.

A rather to Europe fold dusiness in the town and the Charles of Europe it has a wither products that the Company line for England and selection of England and the products of England and the Station of England and the Station of England and Station of England of Ag there is no Bornneth and England and England of Englan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACETONE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       above
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              it (1931) 59,895

ACCTINGTON Borough and market town of Laucachine It is on the Manufactural It is on the Manufactural It is on the Works where and dred been cotton the cotton works where machinery and twen has spundade Pop (1931) 42,973 chemicals are
Justed Edited on The Service of S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    made Pop (1931) 42,973

The ACCUMUIA 42,973 and common are the ACCUMUIA 42,973 and common are the ACCUMUIA 40 Apparatus for the secondary storage of electrical or in later, forms of energy storage of electrical or in later, forms of energy storage between a secondary secondary storage and electrical or in later and placed in the submitted secondary or secondary cell, in its shown as a electrical securior or and placed in distributed secondary or secondary cell, in its submit lead or number of the placed in distributed of a certain appearance of the placed of a certain and the placed of the electric current secondary of the placed of the placed of the placed of the placed of the secondary depends and the placed in power storage batteries and communications of installations, also portable continuation and lichting and for medical annuments.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            smaller are used in Dower storage batteries accumulators installations, also and for stallations, also and for stallations and installations, also and for stallations and lightling riveless and some portable full large and installations and installations are substantially accumulator was celebrated invention of the Hydraulic Acoustic stallations and installations for London of the steam pressure, and diminar applications water water or compressed diminar applications water strategy in seed for are substituted for expectation which works usually based for accumulation full diminary works.

ACC Playing card with one pip on it. In
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           oyunger in which works a loaded ram.

Ace Playing card with one pip on it. In always the lowest, An ace is a point at tennis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                card, in others as the lowest. In dicing it is and rackets During the wise a point at tennis down five opponents was called who brought
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           down five opponents was caused an acc.

A Celdama Field purchased with the to Judas Iscariot thirty pieces of silver given to the betrayal of Only.

Colombias liquid to the found in the f
```

Economics

The salary of a moderately acceptant of the first passes of the first passe

ing to Judas Iscarlot Unity pieces of silver given the first of the betrayal of Christ.

A Cetal Colourless liquid. It is found in the first of Christ.

In sulfur add and alcohol, manganess by discording to partly of actal Is obtained by discording to the first of the first of

cotton, etc., as a solvent for acetylene it is a very powerful illuminant, as it will take 24 times its volume of acetylene. Its formula is  $C_{2}H_{4}O$ 

Acetylene Gas used for lighting purmising calcium carbide, which is made by fusing lime and coke together in an electric furnce, with water It gives out a white, but powerful light about 15 times stronger than ordinary gas. Acetylene generators are some-times used to provide light for lamps on cycles, etc

With oxygen, acetylene is used to make an ovy-acetylene flame, the hottest gas flame known. It has a temperature of 3500 degrees contigrade and is used for cutting iron and steel.

and for welding metals

Achaea One of the divisions of Greece in Achaea One of times The name is still used for a district along the south side of the Gulf of Corinth The Achaean League was an alliance of cities in Achæa It was formed about 280 B c to resist the Macedonians, and was very powerful when Aratus was at its Ten cities composed it, but later and many others joined It lasted Athens and many others joined until 146 BC when it was destroyed by the Romans

Achates Friend and follower of the hero Aeneas He is always called by Virgil fidus, or faithful, and the phrase fidus Achales is proverbial for a stalwart friend or

attendant

Achelous A Greek river-god, the son of Oceanus and Tethys The Greek river Aspropotamo was formerly called Achelous It is 130 m long and flows south into the Ionian Sea

Acheron River in Hades It is referred to in classical mythology There is actually a small river of this name in

Greece and another in Italy

Achi Baba Hill in Gallipoli. It is 600 of the peninsula Fortified by the Turks, it was attacked several times by the British during the fighting in 1915

Achill Largest island off the Irish coast.
Also called Eagle Islo, it is a part
of the County of Mayo in the Irish Free State Achill Sound divides it from the mainland. It covers 57 sq m, is mountainous and has about 5000 inhabitants Dooagh is the chief place

Group of hardy plants Some are suitable for the flower garden, others for the rock garden They thrive in ordinary soil, produce double white flowers in summer, and spread rapidly A sunny position suits them best One kind (achillea millefolium), produces rose-coloured flowers

Achilles Son of Peleus and Thetis and heroes His mother dipped him in the Styx to make him invulnerable, but the water did not touch his heel He was king of the Myrmidons and went with the other Greeks to attack Troy In the Ihad Homer tells of his wonderful deeds and of his quarrel with Agamemnon, after which he stayed in his tent and refused to fight However, when his friend, Patroclus, had been killed, he went to the fight again and killed Hotel. Achilles himself was killed by an arrow striking him on the heel

The Achilles Club consists of athletes who form teams to engage in contests with public

schools, etc.

Achromatism State of being achromatic or without Achromatic lenses are used in telecolour scopes and in cameras, etc., to refract light without breaking it up into colours as an ordinary prism of glass does. They are formed by two lenses, one concave and the other convex, each of a different kind of glass, usually flint and crown

Acid Sour substance soluble in water Acids are the opposites of alkalis. All contain hydrogen and most, but not all, contain oxygen Those without oxygen are contain exygen Those without exygen are distinguished by hydro, eg, hydro examic acid, and those with a high proportion of exygen by per, eg, perchloric acid. The science of measuring the amount of acid in solids or liquids is called Acidimetry

Sicilian shepherd His sad story is Acis fold by Ovid The son of Faunus he was loved by Galatea, so his rival, Polyphemus, killed him with a rock and the gods changed his blood into a little river

Town of Yorkshire Town of Yorkshire It is 4 m from Pontefract, and Ackworth is famous for its school. This is chiefly for members of the Society of Friends and there John Bright was educated. It is on the L.N.E. and LMS joint line Pop 4800

Famous English family Acland the Aclands was made a baronet in 1645, and this title came to his descendant, Thomas Dyke Acland (1787-1871) as the 10th baronet. Of his sons Thomas Dyke, the 11th was a Liberal politician, baronet, Henry Wentworth Acland, Professor of Medicine at Oxford, was made a baronet in 1890, J B Arundel Acland settled in New Zealand, where members of the family still live Arthur Henry Dyke Acland (1847-1926), a Liberal politician and an authority on education, succeeded his brother as 13th baronet in 1919, and the 14th baronet was his son Francis, also a leading figure in the Liberal party The Aclands own much land in Devon and Somerset, and their old residence is Holnicote near Taunton They are buried in Solworth; Church

Market town of Norfolk. It is on the ACIC Bure, 11 m. from Norwich and 122 from London, and is on the L N E Rly It is a good centre for visitors to the Broads and the church is old and interesting Pop 1042

Acne Skin disease It causes small pimples to appear, especially on the face and upper parts of the body. The pimples are due to obstructions in the ducts of the sebaceous glands and the blackheads which are seen in their centres are the obstructed heads of these This, the ordinary form of acne, occurs usually in young people and is best cured by attention to the general health. A more severe form, often caused by alcohol, shows itself in the redness and inflammation of the nose.

Acolyte In the Roman Catholic Church a junior eleric. His duty it is to attend on the higher elergy when they celebrate mass They have been known since the 3rd century

Acoma Indian village in New Mexico. It has the reputation of being the oldest inhabited place in the United States It is 80 m from Albuquerque, and is on a rock 6000 it above sea level Here is a large Indian reservation

Aconcagua Highest mountain in South America. It is an extinct volcano, in the Andes Its height is 23,100 ft.

Argentina A province of Chile is named after it, as is a river

Aconite Flowering plant, of which there are several kinds It is very deadly, as it contains a conitine, a most powerful poison Minute quantities of this are sometimes given to ease toothache and other pains as it produces numbress See MONKSHOOD

Acoustics Science of sound It comes from a Greek word meaning A knowledge of it explains the peculiarities of whispering galleries and the like, and is useful to architects when designing churches, theatres and other large buildings In order that a building's acoustic properties shall be good it is necessary to prevent echoes This can be done to some extent by putting up sounding boards, or hanging tapestries on the walls, but a better result is produced by having broken and not unbroken surfaces. A very high roof is bad for hearing It has been proved that echoes are more noticeable in an empty building than in one full of people, as the very presence of bodies helps to break up the sounds See SOUND

Acre Seaport of Palestine, 80 m from Jerusalem It was taken by the Crusaders and after Saladin had retaken it, Richard I won it again. The knights of S. John held it for some years this being why it is sometimes called S Jean d'Acre, and from 1517 until the end of the World War it was Turkish A railway runs from here to Damascus but there is little trade and few remains of the past Pop (1931) 7893

Acridine Basic substance found in coal tar in association with crude anthracene It is used as a dye stuff and also in electric snuff Its chemical symbol is Its chemical symbol is (O,H,N)

Highest part of a Greek city Acropolis ACTOPOIIS It was fortified and so became the most important part of the city, for here was the citadel and often the temples. There was an acropolis at Mycome, but the most famous was at Athens, where it was a rock 500 ft. high and inaccessible except on one side On it were the greatest buildings of one side On it were the greatest the city, including the Parthenon

Acrostic Lines of printed or written matter, often in verse, of which the first letters taken together form a In a double acrostic the final letters also form a word, and a triple acrostic is sometimes seen in which the middle letters serve the same purpose

In its modern form the acrostic is a puzzle A proverb or rhyme gives a clue to the uprights, as the words formed by the initial and final letters are called Below these are lines each of which gives a clue to a word which begins and

ends with the required letters

Act Division of a play For long plays, Shakespeare's being an example, were always divided into five acts, but there is now no fixed number An act is divided into

scenes In Great Britain an Act of Parliament is the proper name for a law. The Acts of each session are arranged in chapters and are quoted according to the year of the reign in which they were passed For instance, the National Health Insurance Act, passed in 1928, is 18 and 19 Geo Ch 14, because it was passed in the eighteenth and nineteenth years of that king's

and it was first climbed in 1897 It is 90 m | reign The Parliaments of Canada, Australia from Valparaiso on the borders of Chile and and other parts of the Empire, have their own Acts

An Act of God is something due to the violence of the elements, such as a storm at sea or something else for which no human being is responsible. The phrase is much used in insurance policies

Actaeon Noted hunter in Greek my-bathing For this offence he was changed into a stag and chased, and killed by his own dogs

Acting Art of representing historic or fictional characters, or scenes. The art of acting is much older than the Greeks, although from them our early ideas of it have come It was associated with their religious rites and with the dances which were an important part of those ceremonics. At a later time plays were written for the actors to present and, disguised by masks, they declaimed the magnificent dramas of Aeschylus, Sophocles

and the other great writers
Acting flourished, too, among the Romans, Acting flourished, too, among the Romans, one of whom, Roscius made his name immortal In the Middle Ages the acting of miracle plays under the leadership of the church was very popular, and then came the blizabethan Age, which gave to acting, as to everything else, new and greater ideas At this time and earlier there were no actresses, temale parts being taken by men or boys In England actors were obliged by law to take out a licence otherwise they were treated as out a licence, otherwise they were treated as vagabonds and everywhere they were rather a despised class They had little or no scenery to help them, as the plays were usually acted at fairs or in the yards of inns Shakespeare's plays were often acted in this way

In the 18th century, or perhaps a little earlier, women appeared on the stage, and acting took its modern form. This was partly

due to the influence of David Garrick who. with Sarah Siddons, greatly raised the social status of actors and actresses In the 19th century scenery became much more elaborate, theatres were built almost everywhere and plays were written in thousands. Acting was regarded as a profession with its clubs, organisa-tions and training schools The 20th century saw a remarkable development in stagecraft,

but no advance in the quality of the acting Of modern English actors and actresses perhaps the greatest names are Henry Irving and Ellen Terry but many others are notable France and Italy have also had great actors and there, as in Germany acting has a great hold on the nation In France, Sara Bernhardt and the clder Coquelin, in Italy Elenora Duse and Salvini are perhaps the outstanding figures See DRAMA, THEATRE

Actinic Rays of sunlight which produce chemical changes, on photo graphic plates, for instance They are also called ultra violet (q v) because they fall in wave length beyond the violet end of the spectrum or Ripperian because they were discovered by Ripper The actinometer is an instrument discovered by Sir John Herschel for measuring the newer and properties of the for measuring the power and properties of the sun s rays, and any variations are recorded by the actinograph which works with it

Actinium Radio active substance It was first found in 1899 in pitch blende where it is associated with thorium has the property of communicating radio activity to other bodies It has not yet been isolated 11

Disease attacking Actinomycosis Disease attacking cattle and sometimes men and women It develops in the tongue or jaw where it causes a tumour which is sometimes called wooden tongue or lumpy jaw It is due to a parasite, the "ray fungus," which is sometimes found on barley and makes its way into the animal when it is suffering from a sore It is infectious

Actium Headland of Greece It was near here that one of the world's famous battles was fought, Sept 2, 31 B C , when Octavian, afterwards the Emperor Augustus, defeated Mark Antony and Cleopatra

Acton Borough of Middlesex It can be reached by the LMS, GW and District Rlys The industries include factories for making motor cars, aircraft engines, etc., printing, dyeing works, and laundres At one time Acton, which became a borough in 1921 was noted for its medicinal springs Pop (1931)

English historian Acton English historian John at Naples, Jan 10, 1834, his father being Sir J F E Acton an English baronet in the service of the King of Naples He sport most Lord service of the king of Naples He spont most of his time in studying and writing and was a Liberal MP from 1859 65 In 1869 he was made a baron In 1895 he was chosen Professor of Modern History at Cambridge, and he died June 9, 1902 His famous library was presented to Cambridge University.

Acts of the Apostles of the New Testament It is regarded as having been written by S Luke about AD 65 It relates the history of the Christian Church is the Cruelfixion and an executive of the christian Church is the cruelfixion and an executive of the contraction. the Crucifixion and an account of the journeys and preachings of S Paul with whom Luke was associated

Actuary One who works out numerical calculations These deal largely with averages and insurance charges

Actuaries are employed by the big Insurance Companies, and also by the Government for Health Insurance and other purposes The profession is under the control of the Institute of Actuaries in England and the Faculty of Actuaries in Scotland, the qualifying examina-tions of the societies entitling the successful candidate to the letters FIA and F.FA respectively Particulars of training and fees can be obtained from the Institute of Actuaries, Staple Inn Hall, Holborn, London, WC1, or the Faculty of Actuaries, 14 Queen Street Edinburgh

The Fellowship of the Institute of Actuaries or of the Faculty of Actuaries does not of itself entitle the holder to increased remuneration, as in most businesses payment is made for the class of work done rather than for the qualifications held As a rule, however, an Actuary is of great use in various departments of insurance, and even if he does not obtain an official position he will hold a position of some responsibility

As regards remuneration the salary of an Actuary, when he is the principal officer of a company, is usually between £1500 and £5000, but may, of course, be considerably more in the very largest companies

Adam First man, according to the Bible story (Genesis i-v) He was the husband of Eve, and the two became the parents of the human race Modern scholars regard the story as an allegory, and similar stories are found in the literatures of other early peoples

Many places and things are called after Adam A part of the larvnx that may be seen bulging out in the neck is called Adam's Apple Adam's Needle is a name given to some species of yucca, a flowering plant, not unlike the life, that grows in the hotter parts of America Its leaves are used as fibres for cloth, etc

ADAM'S BRIDGE is a line of rocks and sandbanks between India and Ceylon It is 17 m long and at high tide is covered with water.

ADAM'S PEAK is a mountain in Ceylon On

it can be seen an impression resembling a huge toot, and here it was thought that Adam stood for many years Others believe the mark was made by Buddha

Adam Robert. Scottish architect Born at Kirkcaldy in 1748, he studied architecture in Italy, where he was for eight years, and then settled in London He built Lansdowne House in London, Osterley Park, Middlesox, Ken Wood, Hampstead, and many other residences, but more remarkable perhaps are the stairness shirmer places chairs and are the staircases, chimney pieces, chairs and other furniture which he designed A room other furniture which he designed A from decorated and furnished by Adam cannot be surpassed for grace and beauty Adam had three brothers, James, John and William, and the four built the part of London called the Adelphi Robert died in London, March 3, 1792, and was buried in Westminster Abbey

Adamant Name given to emery from This was because of its unusual hardness, and since then anything exceptionally hard has been known as adamant.

Irish saint Adamnan because he wrote the Life of S Columba This has been translated from Latin into English and contains some valuable information about early days in Britain He lived mainly at Iona, being abbot of the monastery there until his death, Sept 23, 704

Adams John English sailor He took ship Bounty in the South Seas in 1789 Having married in Tahiti, he, with some others, settled on Pitcairn Island where he lived until his death in 1829 His real name was Alexander Smith

Adams John American president. A farmer's son he was born in Massachusetts, Oct 30, 1735, and became a lawyer He came to the front during the trouble with Great Britain over the Stamp Act and had a share in the events that followed, ending with the declaration of independence and the peace treaty of 1783. He was head of the war department in Washington's cabinet and was American Minister in London 1783-88. From 1789-96 he was vice-president, and in 1796 he was elected president in succession to Washington, but in 1800 he was beaten by T Jefferson He died July 4, 1826

Adams John Quincy American president, He was born at Quincy in Massa-Adalia Senport of Turkey, on the Gulf of Adalia, a bay of the Mediterranean, 200 m from Smyrna It was one of the most important ports of the Levant in the Middle Ages and still does a certain amount of the Mediterranean, 200 m from 1794 to 1802 he was in Europe, representing the USA at Middle Ages and still does a certain amount of the Mediterranean capitals in turn, and from 1803, to 1800 was a senator From 1809-14 Adams From 1809-14 Adams 1800 was a senator

and from 1815 17 8 to batr Petersburg in London. He next hold the post of secretary of state under Monroe, when he was largely responsible for putting forward the Monroe doctrine, and in 1825 was chosen president He was benten, however, in 1828, and died, Feb 23, 1848

Adamson William, Scottish politician Born in 1863, he worked in the coal mines of Fifeshire until 1902 when he the coal mines of Fifeshire until 1902 when he became secretary of a trade union In 1908 he was made general secretary of the Scottish miners, and in 1910 was elected MP for West Fifeshire In 1917 he was chalman of the Labour Party in the House of Commons, and in 1924 Secretary for Scotland He held the same post in the second Labour Government, 1929 31, but in Oct. lost his seat in Parliament.

Adana Town of Turkey, on the River Sihur, about 30 m from the Mediterranean Sea. Cotton goods, wool, wine and other commodities are sont for export to the port of Mersina. Pop 72,577

Adaptation Modification in an animal or plant, or in any of its parts and organs, that enables it to live under the conditions that surround it The skull of a regro has been adapted to stand great heat, who the eves of the owl to see in the darkness it is a very gradual process and its results only become ficticable after a long series of generations, through perhaps millions of years. There are two theories of adaptation Lamarck though that animals plants and their parts.

thought that animals, plants and their parts and organs became adapted to changed conditions through use or disuse or perhaps injury These adaptations were then handed on from one generation to another. Darwin taught that that only those animals and plants that adapted themselves to their conditions survived

-those that did not do so died out.

Kind of antelope found in Addax deserts of Arabia and Northern Africa It is about three feet high and has twisted horns, sometimes nearly three feet long, and in winter grows a beautiful mane

Adder See VIPER.

District of Croydon There Addington District of Croydon There was a palace, once a residence of the Archbishops of Canterbury It was built in 1772, probably on the site of the manor house of the village, and in 1808 was bought for the archbishop in 1902 it was sold and it is now a country club with a golf course âttached

Addis Ababa Capital of Abyssinia mountainous district 8000 ft. above sea level In 1885 the Emperor Morielek made it his capital and built a palace here, previously it was only a colloction of mud huts A railway line goes from here to the Red Sex. Addis Ababa was the objective of the Italian forces in the Italo Abyssiman War (1935 ) Pop 60,000

Addiscombe Suburb of Croydon. It is notable because from 1812 to 1861 the East India Company had a college here for training officers for its army This has now been pulled down and the district is covered with houses

Addison Christopher English politician Weybridge Pop 8000

Address In Parliament, thanks sent to Address and in London and became a doctor As lecturer at S Bartholomew's custom is for two private members to move and Hospital, professor at Sheffield, and Hunterian second the Address and in the debate that

Lecturer, he won a high reputation as an anthority on anatomy, but soon he turned his attention to politics, and was concerned in preparing the Health Insurance Scheme In 1910 he was elected MP for Hoxton as a Liberal, and in 1914 he became secretary to the Board of Education Under Mr Lloyd George he was Minister of Munitions and Minister of Reconstruction and he was president of the Local Government Board when, in 1919 it became the Ministry of Health Having put forward a housing scheme, he left office in 1921, lost his seat in Parliament, and broke away from Lloyd George He then joined the Labour Party and in 1929 was elected MP for the Swindon Division In the Labour Ministry he swindon Division in the Labour Ministry of Agri-culture in 1929 and became head of the department in 1931 In Aug he resigned office and in the following Oct. lost his seat in Parliament.

Parliament.

Addison Joseph English essayist. The Addison son of a clergyman, Rev Lance lot Addison, he was born at Milston, Wiltshire, May 1, 1672 He was educated at Lichfield, where his father became dean, at the Charter house, London, and at Oxford. He became a Follow of Magdalen College where Addison's Walk is still a reminder of his residence at the

university

Having left Oxford, Addlson was fortunate enough, through his friends to obtain a pension, on which he travelled in Europe for four years He then returned to England and for the rest of his life was an active Whig politician In 1704 he was made a commissioner of the excise and from 1708 11 was secretary to the Lord Lieutehant of Ireland, a post which he again filled in 1715 In 1717 18, he was a secretary of state From 1710 to his death he was MP for Malmesbury, he also sat in the Irish Parliament. In 1710 Addison married Charlotte, the widowed Countess of Warwick He died in London, June 17, 1719, and was buried in Westminster Abbey Addison wrote Latin verses at Oxford, in 1704 a poem on Blenheim and later several plays, only one of which, Cato, was a real success. But his name lives in his essays, which show him as one of the great masters

success. But his name lives in his essays, which show him as one of the great masters of English prose. They appeared chiefly in the Spectator, founded by himself and his friend, Richard Steele, and the Tatler. Addison created the character of Sir Roger de Coverlev.

Addison's Disease the supra rend glands situated on top of the Supra rend glands situated on top of the Ridneys Named after Thomas Addison, the Guy's Hospital physician (1793-1860) who first de scribed it, this is usually associated with consumption Its signs are a general feeling of weakness, then irritability of the stomach and feebleness of the heart The skin becomes brownish and the sufferer thin and listless, as in anomia It is rarely oured, though in recent years the administration of suprerenal extract has been attended with hopeful results

Addlestone Town of Surrey It is London and is reached by the S Rly Its industries include motor car, printing and leather dressing works It is in the parish of Chertsey and a suburb of Weybridge Pop 8000

Address in Parliament, thanks sent to opening of each session for his speech. The custom is for two private members to move and

as it did in 1924, the Government must resign

Addressograph Machine used for relopes, wrappers, etc. Each address is engraved on a plate. The plates are fed into graved on a plate. The plates are fed into the machine one by one and after the addresses have been printed are returned to their drawers

Adelaide Capital of South Australia It is eight miles from the sca, where is its port, Port Adelaide The river where is its port, Port Adelaide. The river Torrens, which has been made into a lake runs through it. The principal buildings are the Parliament House, and those used by the Government, the city hall and two cathedrals one Roman Catholic and the other Church of England. The city is laid out in modern style, with wide streets and many parks and other with wide streets and many parks and other open spaces Here are the headquarters of the important Bank of Adelaide founded in 1885 The university was founded in 1874

As the business centre of the state Adelaide has a large trade in wheat, fruit, wool, wine and copper, and is an important railway centre Its market for mining shares is notable Pop (1931) 324,337

Adelaide English queen, the wife of William IV She was born in 1792, being the daughter of the duke of Saxe-Coburg-Meiningen In 1818 she was married to William, then duke of Clarence, but the pair had no children She was queen for seven years and queen dowager for twelve, but was never popular Adelaide died at Bentlev Priory, near Stanmore, Middlesex, Dec 2, 1849 A street in London was named after her, and in this way Adelaide House, the great building near London Bridge, got its name

Adelboden Health and pleasure resort in Switzerland It is in the canton of Berne, over 4000 feet high, and is beautifully placed amid the mountains The mineral springs are good for certain complaints, and winter sports are held here

Adelphi District in London. It was laid out by Robert Adam and his brothers and is named from adelphos, the Greek for brother It is between the Strand and the Thames, and its chief buildings, overlook the river It is now (1936) being pulled down. The Adelphi Theatre is in the Strand, just outside the Adelphi proper

Town and territory of Asia, both British possessions The town Aden British possessions stands on a little peninsula in Arabia, just at the entrance to the Red Sea, and is chiefly used as a coaling and calling station by ships going to and from the East by the Suez Canal It has a good harbour and facilities for loading the coal and handling the goods that come from East Africa to be transhipped here Otherwise the chief industry is obtaining salt from the sea water The settlement, which consists of the town, the surrounding district and the Island of Perim, covers 75 sq miles and has (1931) 48,338 inhabitants

The protectorate, which is on the mainland of Arabia, covers about 42,000 sq miles and is governed from India. from Aden into the interior A railway runs Aden belonged to the Turks and then to an Arab tribe until 1839, when Great Britain took it as the Arabs there were doing great damage to her shipping

follows the opponents of the Government can call attention to its failures and mistakes of the Suez Canal and in 1905 the boundaries of the Address If the House of Comment to the Address If the House of Commons agrees to an amendment to the Address, part of it, including Lahel, the chief town after of the Protectorate were marked out. There was fighting here during the Great War and part of it, including Lahej, the chief town after Aden, was taken by the Turks, who did not restore it until the peace of 1918. In 1932 the Protectorate was separated from Bombay and placed under the direct control of the Governplaced under the direct control of the Government of India

The Gulf of Aden is a branch of the Indian Ocean leading up to the entrance to the Red

Sen

Excessive growths of lymphold tissue at the back of Adenoids the nose which interfere with respiration, and also cause general ill-health, should be suspected in children who habitually breathe through the mouth, who snore, who are deaf, or who suffer from recurrent attacks of nasal or bronchial catarrh

The best informed opinion of to-day holds that most cases of adenoids are related to rickets and are due above all other causes to vitamin deficiencies in the diet. Adenoids have to be removed by an operation, which cannot generally be performed under five years

Adige River of Italy It rises in the Tirol and is about 250 miles long It enters the Adriatic near Chioggia, making a Near the mouth it joint delta with the Po hos been canalised and linked with the Po Verona and other towns stand on it.

Adipocere Curious substance It is formed by allowing animal fat, such as butter, to decompose, when it becomes hard and rather like wax. This is done by burying it in damp earth or in water, or it may be done accidentally In England the decomposition takes about twelve months In warmer countries the change is more rapid

Mountains in the state Adirondacks between Lake Champlain and the S Lawrence and are a very beautiful stretch of country. The highest is Mt. Marcy, 5341 ft. There are many small lakes in the district and the extensive forests make it a popular holiday resort. Part of the district is a state reserve, covering some 4000 sq m.

Adjaria

Soviet republic in the Caucasus, and part of the lorger Soviet.

Adjaria and part of the larger Soviet republic of Georgia. The capital is Batum

Adjudication In English law word used for the act of declaring a man a bankrupt It can only be done in a bankruptey court, which for this purpose is usually the county court, and the judge must be satisfied that there is good reason for taking the step Until it is done, the debtor, however much in debt, is not legally a bankrupt See Bankruptcy.

Adjutant Bird very like a stork. It is about six feet high when standing and its wings from end to end extend for 14 or 15 feet. It has a bald head and a hanging pouch and feeds on dead and decayed matter, also on small fish and snakes. Owing to its utility as a scavenger it is protected in India, where it is chiefly found, by law

Adjutant Officer in the British army. ment, battery or other unit has an adjutant who is responsible for the secretarial duties, such as keeping the rolls and records and dealing with the correspondence He also looks He also looks after the recruits, arranges the routine work

and in general assists the commanding officer whose orders are signed by him The adjutant

is chosen from among the officers

The Adjutant General is one of the heads of the army He is a member of the army council and the chief of the department looking after the supply of men, medical services, etc

Admetus Greek hero He joined in the Calydonian boar hunt and the voyage of the Argonauts His wife was Alcestis When he was ill the Fates promised Apollo that Admetus should live for ever if someone else agreed to die for him Alcestis did so, and one account says she was brought back from Hades by Hercules

Administrator Legal term If a will, or does not leave an executor, it is necessary for someone to look after property left by him or her To do this a relative, if possible the nearest should take out letters of adminis tration and so become the administrator should apply at Somerset House London, or at a Probate Registry, if he lives in the country, and must sign a bond that he will act according to law He can then divide up the dead person's property according to the law con cerning intestate estates

Admiral Naval officer of high rank It means commander of the sea, and was first used about 1300 All navies have admirals and at one time the British navy had a lord high admiral To day there are four kinds of admiral, admiral of the fleet, admiral, described for the state of the fleet, admiral, admiral They are called flag officers and their rank is shown by the number of rings on the cuffs wear respectively four, three, two or with a curl attached to the last one one, are also one or two honorary admirals, such as the lord mayor of London, who is admiral of the port of London

Admiralty Board of Department that controls the British navy Department that Other countries have similar bodies, but such are usually known as the ministry of marine It came into existence in 1628 to carry out the duties of the lord high admiral In 1831 it took over the duties till then discharged by the navy board and the commissioners for victuall ing and since then has been responsible for the whole work of the navy To day the board whole work of the navy 10 day are board consists of a first lord, who is a member of the Cabinet, and two other politicians, the civil lord and the financial secretary. Five sallors ford and the financial secretary. Five Saliors are on it, the first, second and third Sea lords and the deputy chief and assistant chief of the naval staff. The first lord has a salary of £4500 a year and a house, less a reduction made in 1931. The headquarters are in Whitehall,

Until 1875 there was a separate court of admiralty, which dealt with matters con corning ships and cargoes This is now part of the probate divorce and admiralty division of the High Court Scotland and Ireland had

also courts of admiralty

Admiralty Is Group of islands to the north of New Guinea They are governed by Australia under a mandate from the League of Nations Manus is the largest and the inhabitants are Papuans The islands cover 600 sq m and are full of coconut trees The Dutch discovered the islands in 1610 They were a German posses sion from 1885 to 1914 When they were taken by an Australian force Pop (1930) 14,067

Spanish word for a brick dried in Adobe the sun Adobes are made of mud with chopped straw added to it, and are much used in hot countries The straw prevents the bricks from cracking The bricks used in ancient Egypt were of this kind

Adonijah Son of David He claimed to be his father's heir Joab and Abiathar supported him, but the old king persuaded by Bathsheba, caused Solomon to be anointed as the next ruler He then par doned Adonijah, but after his death Solomon had him killed

Adonis Greek god. The Greeks thought of him as a youth of exceptional beauty and as loved by the goddess of beauty, Aphrodite He was killed by a wild boar at the request of the goddess

Adoption Taking permanent charge of someone or something In Greece and Rome persons could legally adopt the children of others and many did this in order to prevent their families from dying out. Children can be adopted in Great Britain, and there are in London at least two societies that order to find homes for personaless and not a constitute of the contractions exist to find homes for parentless and unwanted children, but until 1926 there was no law on the subject. Since 1926, however, an adopted child can be put in exactly the same position as regards name, inheritance, etc., as a natural child The conditions are that an adoption order must be made by a judge or magistrate and that the adopter must be at least 21 years older than the adopted child. A register of adopted children is kept at

Somerset House, London
After the World War devastated towns in
France and Belgium were adopted by British towns, the idea being that the adopter would

help to repair the damage done

Adowa Town of Abyssinia, also called Adowa Town of Abyssinia, also called province of Tigré and a trading centre Near here, on March 1, 1896, the Abyssinians defeated the Italians in a famous battle, for which the Italians avenged themselves by the capture of Adows in 1925 deviates the Italians avenged themselves by the capture of Adowa in 1935, during the Italo Abyssinian War Pop 5000

Adrenalin Powerful astringent It is causes the arteries to contract It is a brown powder with a bitter taste, obtained from the suprarenal eudocrine glands situated on top of the kidneys Its use was discovered in 1901

Adrian Name of six popes Adrian IV is noted as the only Englishman who has ever been pope His name was Nicholas Breakspear and he was born at Langley in Hertfordshire He became a monk and was head of a monastery in France, where he was made a cardinal He was pope from 1154 until he died at Anagni, Sept 1, 1159

Adrianople City of Turkey called also the union of the Maritza and the Tunia about 140 miles from Istanbul, with which it is connected by railway It exports silk, tobacco and manufactured goods Pop 35,000

manufactured goods Pop 35,000 was rebuilt about 125 by the The city The city was robult about 125 by the emperor Hadrian, who renamed it after him self Later it was taken by the Turks and from 1361 to 1463, when they got Constantinople, it was the capital of their empire In 378, near here, the Goths defeated the Romans in a great battle, the victory being chiefly won by the Gothic horsemen In 1913 the city was taken, after a long siege, by the Bulgarians and Serbians: but the Turks recovered it and have since retained possession

Adriatic Sea Branch of the Mediter-Italy and Yugo-Slavia The western and northern sides of the Sea are Italian, the eastern side belongs to Yugo Slavia and Albania It covers just over 50,000 square miles and is nearly 500 m long The chief ports are Brindisi, Ancona, Venice Trieste, Fiume and Pola belonging to Italy, Ragusa and Cattaro belonging to Yugo-Slavia and Durazzo and Avlona belonging to Albania. The western coast is unbroken, the eastern, sometimes called the Dalmatian, is lined with islands

Adullam Name of a cave in Palestine Aduliam Name of a cave in Palestine Here David, when threatened by Saul, took refuge and was joined by a number of discontented persons (1 Sam xxii) The Liberals who, in 1866 left their party rather than agree to parliamentary reform, were lilened by John Bright to these men, and called Aduliamites Their leader was Robert Lowe Viscount Sheebreeks. Robert Lowe, Viscount Sherbrooke

Adult Person 21 years old and over An adult, unlike a minor, can do as he likes as regards marriage and dealing with money, provided he does not break the law Adult Schools are schools where, usually on

Sundays, men and women are taught. They exist in many cities and towns of Great Britain, often being conducted by members of the Society of Friends The British Institute of Adult Education is at 39 Bedford Square, London, WC 1

Adulteration Mixing a substance with an inferior or impure one In Great Britain it is illegal to adulterate food and drink, that is to mix it with something of inferior quality For example, wheat flour can be adulterated with flour made from meize or rice, butter with margarine, jam with veretable pulp, cream with preservatives and milk with water

Various Acts of Parliament have been passed to stop adulteration, and inspectors are appointed by the county and borough councils to visit shops and examine the articles sold An inspector can buy a sample of anything he thinks is adulterated and have it analysed if the analyst finds it is adulterated the

offender can be heavily fined

Adultery Sexual intercourse by husband or wife with some other person. The offender may be quite innocent, for instance may think his or her wife or husband is dead, but it is always adultery until the marriage tie is dissolved by death or otherwise. In English law a man can obtain a divorce if his wife has been guilty of adultery, but before 1923 a wife could not obtain one for adultery alone Since 1923, however, the sexes have been equal in this matter

The four weeks before Christmas Advent Advent Day, ie the period just before the birthday of Christ It is reckoned from the Sunday nearest S Andrew's Day (Nov 30) The Anglican Church and the Roman Catholic Church regard Advent as the beginning of the ecclesiastical year, and as a time of solemn preparation for Christmas The Second Advent is the expected coming of Christ and the end of the world

Advertising Term used for the pusithe merits of the goods or services that a trader (certain examinations exembas for sale—It is also known as publicity—Intermediate consisting of

These include not only articles of food and drink, clothing and furniture, but railway, shipping and other services, banking and insurance benefits, indeed almost everything Professional that man and woman can need rules forbid medical men, solicitors, accountants and stockbrokers from advertising; but it has extended to almost every other trade and profession

Advertising includes notices in the newspapers, posters on the walls and in vehicles, catalogues and circulars sent by post, leaflets delivered in the streets, samples given away, window dressing, electric signs, sky writing etc

Advertising agents are firms, many of them very large, who arrange advertising for business houses Further, most large firms keep an advertisement manager who, with his staff, controls the firm's advertising Advertising consultants are experts who confine themselves to giving advice about the best way of advertising

Until 1853 a duty on newspaper advertisements retarded the growth of advertising in Great Britain The removal of this duty helped its development, but a greater impetus came from improvements in printing which enabled illustrations to be used on a lavish scale

By law an advertisement becomes a contract as soon as a member of the public accepts the offer made to him The goods must be of the nature described, or the buver can obtain damages. The law of copyright is also of interest to advertisers, whose writings and drawings are protected by it. Under the town planning acts local authorities have the power

planning acts local authorities have the power to prevent the appearance of advertisements that disfigure the landscape Indecent advertisements are illegal in Great Britain

Advertising clubs are The Thirty Club, The Aldwych Club, The Regent Club, etc., and the chief association is the Advertising Accordation at 10 Fleet Street London F.C.4 Association at 10 Fleet Street, London, EC4
The chief papers for the trade are The Advertising World and The Advertisers' Weekly Adver-There are also international advertising organisations and world conferences are held from

time to time ADVERTISING AS A CAREER is of comparatively recent origin, but it is of continually increasing importance, affording interesting, varied and remunerative posts for both men

and women

Such is the scope of advertising, the personal qualifications for success cannot be pinned down, but whoever would rise to the top of the tree, must have quick wits, be interested in his business, both in and out of business hours, and have the capacity to work hard. Successful advertising is based on a knowledge of marketing methods, economic conditions, and the mode of living and spending capacity of mankind, as well as on the ability to write copy and an understanding of type faces and printing processes

The best way to enter the advertising profession is to go as a junior into an advertising agency, or into the advertising department of a manufacturer, store or newspaper The salary paid at the outset is purely nominal, but it takes six months to a year before a

junior becomes reasonably useful
During this period of training, the junior
may study for the Advertising Association's Examinations at one of the Schools of Com-merce or Technical Colleges where the syllabus is taught These comprise a Preliminary (certain examinations exempt from this), an

Division A English, Psychology, Principle of Accounts or Advertising Administration Division B

Reproduction, Media, Layout and Com mercial Art, Direct Mail Advertising or Market Research

and a Final which entails an advanced knowledge of Economics, Psychology and Advertising practice in all its spheres. The Intermediate and Final can each be taken in two parts as the Examinations are held annually. These examinations are rapidly becoming the hall mark of the trained Advertising man

Salaries in Advertising are progressive and higher than in some professions, their present tendency, however, is to fall Senior agency positions are usually worth from 2500 to £1000 positions are usually worth from £500 to £1000 per annum, or, in exceptional circumstances, higher The advertising manager of a news paper earns from £500 to £2000 per annum according to the status and circulation of his paper The salaries of advertising managers of Trading Companies vary according to the amount of advertising done by their firms and under their control, these range therefore, from £500 to £1500 per summer but the higher from £250 to £1500 per annum, but the higher figure is exceptional

Advocate In Scotland a lawyer, corres ponding to the barrister in England To become one a man must join the Faculty of Advocates and pass certain examina tions No person, unless he is an advocate, can plead in the higher courts of law The Faculty, which was founded in 1562, possessed a wonderful library, which, in 1925, became the National Library of Scotland Its head is the dean The library was in Parliament House, Edinburgh, until a new building was erected for it.

Advowson Right of presenting a clergy man to a living in the Church of England Its owner is the patron of the living He may be the king, a bishop or a private person. The patron must not take money for presenting to a living, and advowsons can only be sold under certain conditions In 1923 a measure was passed which made the advowson incapable of sale after two vacancies from the date of the measure

Aeacus Son of Zeus by a nymph, Aegina The Greeks believed the god Aeacus to be particularly just. After his death, therefore, Pluto made him one of the judges of the lower world the lower world

Aedile Magistrate in Rome The Aediles looked after the aedes or public Two in number, they were first appointed in 494 BC, two others were appointed in 366 BC

Aegean Sea Sea that lies between Greece and Asla Minor, a branch of the Mediterranean It is about 400 m long and 170 m wide and in it are many islands The wonderful civilisation that existed in Greece, Crete and elsewhere in that region before the time of the Greeks is usually called Acgean.

Aegina Island of Greece About 40 sq m in area, it is in the Gulf of Aegina, an opening of the Acgean Sea, and is noted for the springs found there On it is a small town called Aegina

Aegir One of the Norse gods He was the the storm goddess and his daughters the billows The tidal wave on the Trent is called the aegir

Aegis originally a shield, especially one carried by Zeus and other gods It came, therefore, to mean protection, and in this sense the word is now used.

Aegospotami River of Greece The name means "river of the goat." Here in 405 B c a battle was fought between the Athenians and the Spartan navies, in which the Athenians were beaten and lost the mastery of the sea

Aeneas Hero of Troy and the subject of Virgil's famous poem, the Aeneid. In 12 books this tells of his adventures In 12 books this tells of his adventures. He escaped from Troy with his father Anchises and his son Ascanius and travelled to Italy, calling on the way at Carthage where he met Queen Dido Later he married Lavinia, daughter of Latinus King of Latinum, and was regarded as the founder of the Roman state.

Aeneas Silvius Name by which before he became pope See Pius II

Acolus King of Acolia, one of the Lipari islands He was the god of the winds, which he kept shut up in a cave in the mountains He gave his name to the Acolian Harp This is a box across which wires or strings are stretched If it is placed in a favourable position the wind will produce musical notes as it blows upon them Asolian deposits are deposits of sand and other materials brought in by the wind

Aeration Method by which certain foods and drinks are aerated, or charged with carbonic acid gas Bread is treated in this way, the gas being substituted for yeast. The manufacture of aerated waters is a considerable industry The lemonade or other drink is made from essences and then the gas is forced into it by pressure

Aerial Wire or wires used with wireless or collect the electrical waves. The wire is or collect the electrical waves. The wire is supported at a height above the ground and insulated from it, except for a connection to earth through the transmitter or receiver. The insulators are pieces of non-conducting material used for fastening the aerial wire to its supports. They are generally made of glass or porcelain. A condenser or inductance, either fixed or variable, is connected to the aerial circuit of a transmitter or receiver in order to tune the circuit to a particular frequency. In Great Britain a private aerial for the recention of broadcasting must not be the reception of broadcasting must not be more than 100 feet long Improvements have made it possible to do without external aerials in certain classes of receiving sets

Aerodrome Term used for the area devoted to the arrival and departure of aircraft and the buildings associated therewith It may consist of a hangar and workshop, or a large group of buildings such as exist at Croydon and Le Bourget. such as exist at Croydon and Le Bourget.

A modern aerodrome contains landing grounds
properly marked and lighted with beacons
and marked hangars for the machines, work
shops for their repair, store rooms, wireless
apparatus, etc When passengers and goods
are landed from abroad there must also be a
customs station and a bonded warehouse
Wotting and exterchapt rooms care else Waiting and refreshment rooms are also essential, as are offices and quarters for the staff. If airships are received there must be a mooring mast.

In Great Britain all aerodromes must be licensed and inspected by the Air Ministry

inco the Great War they have been erected il over the country In the London area the hief aerodromes are Croydon, Heston and fendon Manchester, Liverpool, Bristol, lottingham, Blackpool and other cities and owns possess aerodromes and many others

Aerodynamics Science concerned with the effect of air n motion, a complementary branch being erostatics. It is of great importance to cronautics as it examines the resistance aftered by the air to bodies moving therein at the pressure exerted upon them. The esults reached by experiments of various juds are studied closely by aeroplane ngineers and have much bearing upon the vpe of machine that is built. There is an incodynamics department at the National Physical Laboratory, Teddington

ngineers and have much bearing upon the vpe of machine that is built. There is an erodynamics department at the National Physical Laboratory, Teddington

Aeronautics Science and practice of a navigation in the air t may be divided into two branches, one icaling with balloons and airships and the other with aeroplanes, as the principle on which each works is quite different. Balloons and airships rise and move because the air or as within them is lighter than ordinary air, seroplanes, on the other hand, find support hrough forces which produce relative motion in many ways they are superior to airships, but they have one disadvantage, they cannot be stationary Both use the internal combustion ingine driven by petrol. The airship, being much larger than the aeroplane, can carry much greater loads.

The practice of aeronautics, which is sometimes called ariation, may be divided according to the use to which the machines are put. The most important branch is commercial flying, and there are now air routes over which passengers, and, to a limited extent, goods, are carried to all parts of the world Letters are also sent by air and a regular system of air mails is in operation

In 1932 there were in use 136,000 miles of air lines, and during the previous year 600,000 passengers and 13,000 tons of goods were carried over them In these services about 2000 machines are employed The chief company in Great Britain is Imperial Airways, Ltd, which has daily services to Paris and other cities and regular services to India and still farther nfield.

Associated with commercial flying is the use of aircraft for photography and surveying The exploration of the Arctic and Antarctic areas has been much helped in this way

The second branch is military aeronautics. This was developed to an enormous extent during the Great War, when thousands of machines were built for active service, and to-day each of the great countries, unless forbidden to do so by treaty, maintains an air force. In Great Britain the force was at one time divided into a military and a naval section, but later both were united as the Royal Air Force (qv) The navy, however, has its flying boats and seaplanes, as well as aircraft carriers

The third branch is flying as a sport This has a direct bearing on the scientific side of the subject, as by it engines are tested and better types evolved To encourage this branch various prizes are offered, such as the King's Cup and the Schneider Trophy One of its developments is the establishment of aeroplane clubs, another is the introduction of flying dareants

The workers employed in aeronautics may be divided into several classes. First come the engineers and scientists who experiment with engines and designs Some of these are in the works, others at the National Physical Laboratory, while a few are professors and students at universities and colleges Next come the builders of the machines These may be em-ployed by the Government in the royal aircraft factory, or by private firms, several of which are concentrated at Cowes, or in the making of engines for aircraft at Derby, Acton, or elsowhere Another class consists of the men who actually fly the machines, pilots and observers. They must pass certain tests and obtain a certificate of competency from the Air Ministry. Some of these are members of the six force. the air force, others are private individuals either employed by an air line, or persons flying for pleasure Finally there are the men employed at the aerodromes and landing grounds in looking after the machines and their Many of these are trained accessories. mechanics

The possibility of flying was long present in the human mind, even before Leonardo da Vinci experimented with it in the 15th century. The first successes were with balloons and the first successful experimenters were two Frenchmen named Montgolfier in 1783 ascents were made both in France and the United States, with passengers These early balloons were round and were filled with hot air, or hydrogen

The next important step was to make a balloon, clongated or cigar-shaped, instead of round One of these was built in England in 1834, and a more successful one in France in 1852, and after various experiments a method of directing them was evolved. Power was furnished by steam, later by gas and electricity and finally by petrol, and they did good service in the Franco-German war

In 1897 a machine of sheet aluminium over a metal framework was built, and this may be regarded as the first airship, as distinct from the balloon. It was of the rigid type, and during the next few years both it and the non-rigid type were greatly improved, the latter owing a good deal to the genius and perseverance of Santos-Dumont. The next great development of the rigid airship was the building of the first Zeppelin in 1899. These and other mammoth airships were used during the Great War and afterwards for commercial purposes, but the results have been rather disappointing. Disasters, the most notable being the loss of R101 in 1930, have been frequent.

In 1843 an Englishman named Henson flew

In 1843 an Englishman named Henson flew in an aeroplane driven by a small steam engine, a successor to one built by Sir G Cavley in 1810 Other experimenters were Otto Lilienthal, Clement Ader, Sir H Maxim, the American Langley, and then came the brothers Wright

In Dec 1903, the brothers Wilbur and Orville Wright rose 852 ft in a machine driven by a petrol engine The possibility having been proved, progress was rapid In 1909 Bleriot fiew across the English Channel, and Henry Farman flew 118 miles in three hours The Great War led to fresh developments, and when it ended machines capable of great speeds were in existence In 1931 a British officer travelled in a seaplane at 408 8 m per hour in a demonstration flight, and in 1933 Warrant Officer Agello, of the Italian Air Force, made the record air speed of 423 76 m p h

The distances flown tell the same story of progress In 1919 Sir J Alcock and Sir A Whitton Brown made the first aeroplane flight across the Atlantic. They took 16 hrs 12 min In June, 1930, Kingsford Smith crossed the Atlantic, the other and more difficult way (east to west), in 32 hrs 12 min Other notable non stop flights were Captain Lindbergh's New York to Paris (solo), 3639 m in 334 hrs. Miss Earharts solo flight from the pusher according to its position, and they groscope, and other devices for keeping in 334 hrs. Miss Earharts solo flight from Newfoundland to the Irish Coast in 13 hrs
Newfoundland to the Irish Coast in 13 hrs
16 min, and the 4984 m from New York to
Constantinople in 49 hrs by Boardman and
Polando The greatest height to which a
machine has reached is 47,349 ft (1933) Of the flights by stages the most remarkable have included Sir Alan Cobham's 28,000 m from included Sir Alan Cobham's 28,000 m from England to Australia and back in 230 flying hours, and the feat of Amy Johnson (Mrs J A Mollison), who did 9960 m to Australia in 19 days In 1933 Charles Ulm, the Australian air man, flew from Britain to Australia in the record time of 6 days 171 hours, beating Kings ford Smith's record (made nine days previously) by 10 hours 54 minutes In 1934 this record was smashed by Scott and Campbell Black (Gt Britain), who flew from England to Australia in 2 days 22 hours 58 minutes

Other notable flights were the Mount Everest flight in 1933, and (also in 1933) Wiley Post s solo flight round the world in 7 days, 18 hours,

491 minutes

Developments were made in the types and sizes of machines Airships attained immense proportions, sumptuous aeroplanes to carry 38 passengers were built while for special purposes the flying boat and the seaplane both

purposes the flying boat and the scaplane both developments of the acroplane, were perfected In Great Britain the chief society is the Royal Acronautical Society at 7 Albemarle Street, London, W There is an Institute of Acronautical Engineers at 60 Chancery Lane, London W C, and a paper The Acroplane, is published in the interests of the science International flying is controlled by the Federation Internationale Acronautique See AEROPLANE, ATRSHIP, FLYING BOAT, SEA-PLANE etc. PLANE etc

Aeroplane Popular type of flying following principles A certain thrust is necessary before it can overcome the air necessary before it can overcome the air resistance and the minimum speed at which this is possible is the starting speed. When this speed is reached the pressure of the air underneath the wing and the suction of the air enable the plane to rise. When it is flying level the total lift of the air must be equal to the total weight of the machine and it will rise or fall according as the weight is smaller or greater than the total lift. The resistance made by the weight of the machine depends on the horse power developed by the engine on the horse power developed by the engine Aeroplanes have two, four or six planes or wings and are therefore known as monoplanes,

biplanes and triplanes Triplanes are not much used Fach of the other types has its particular advantage The monoplane offers particular advantage and monoplane offers ess resistance to the air and therefore needs less horse power. The biplane is more stable and will carry the greater load. The seaplane and the flying boat are developments of the

acroplane

The wings or planes cambered or curved like the wings of a bird, are the litting spaces of the machine Some are fitted with slots, a device invented by F Handley Page to secure greater safety. A rudder, like that of a secure greater safety ship, and other controls are provided for the

engine, some with many cylinders the supply of oil, the screw or propeller, called the tractor or the pusher according to its position, and the gyroscope, and other devices for keeping the machine on an even keel. The body of the aeroplane, called the fuscinge, contains the compartment for the pilot and observer, and accommodation for passengers and goods
Aeroplanes are usually made of wood which

is covered with fabric and then painted with dope or varnish. Metal ma are being built of duralumin Metal machines, however,

The largest aeroplanes carry 39 passengers and a considerable load, and fly at as much as 170 m an hour, but improvements are con tinually being made In 1932 a fighting biplane was built which can ascend to over 20,000 ft. and travel at over 200 m an hour A new high speed monoplane was built in Manchester in 1933—so far the largest passenger air liner ever built Flying boats and seaplanes carry heavier loads and seaplanes have developed much greater speeds

Aerostatics Science of the equilibrium and pressure of the atmos phore It is thus of the highest importance in aeronautics A balloon, or airship, can be kept in the air if it is filled with a gas that is lighter than air provided the weight of the whole vessel is lighter than the volume of air it displaces at ground level. This means that the envelope must be light Air weighs 16 lb are 200 cribic feet coal case only weighs 8 lb. per 200 cubic feet, coal gas only weighs 8 lb and hydrogen only 1 lb Helium is slightly heavier than hydrogen An airship filled with coal gas hydrogen, or nelium however will rise until it reaches a point where the air without is light enough to prevent its farther ascent

Aerschot Town of Bolgium It is on the little River Demer, 22 m from Brussels In Aug 1914, it was entered by the Germans who did a good deal of damage before they were driven out On Sept 9 they captured it again and it was in their hands until Nov 1918 Pop 8000

Aeschines Greek orator Born about where he was contemporary with Demosthenes Born about His greatest speech was the one in which he opposed the suggestion to give a golden crown to Demosthenes, who roplied in the famous oration De Corona He died in 314 B C

Aeschylus Greek dramatist. He was born in 525 BC, at Eulisis and fought in the Greek army at Marathon He died at Gela in the island of Sicily in 456 BC. Before Marathon Acsolylus had competed for Before Marathon Assolivius had competed for the prizes offered at Athens for a drama and in 484 he was successful For these prizes and on other occasions he wrote 70 tragedies, but only seven are extant These rank with the greatest literature in the world The seven plays are Agamemnon, Choephori and Fumenides, Prometicus Vinctus (Bound), The Suppliants, The Persians and The Seven against Thebes

Aesculapius Greek god of medicine, showed his power by raising the dead and so aroused the anger of Zeus, who killed him with a thunderbolt He was placed among the stars Aesculapius, who is mentioned by Homer may have been an actual personage

His symbol was a staff with a serpent twisted round it.

Name for the gods and goddesses Aesır in Scandinavian mythology lived together in Asgard and carried on a struggle against the powers of evil The chief of them were Thor, Balder, Frey and Loki

Aesop Greek fabulist He was born in Phrygia and was for a time a slave in Samos Later he went to Lydia, where he was employed by Creesus He was killed when on a visit to Delphi because his remarks had angered the priests Aesop was renowned as a wit. The extent of his share in the collection of fables called after him is unknown. Most of them were in existence before his time, but he may have collected and added to them

Aesthetics Theory or philosophy of taste, or of the perception of the beautiful in nature or art. Its object is to examine the ideas of beauty which have prevailed in all ages and to find out, if possible. the fundamental principles on which such ideas rest. Its first great exponents were the Greeks, especially Plato and Aristotle 1ts study was revived by German thinkers in the 18th cen tury, Lessing and Schiller among them Since then a great deal has been written about aesthetics, the chief modern writer being Benedette Croce

Most authorities agree with Plate that, behind the changes due to the progress of time and the differences of race, there is in the mind of man an idea of beauty that is absolute, and exists quite apart from all considerations of time and space One of its essentials is har-mony, another is truth, fidelity to an ideal, and one of its tests is the giving of pleasure

Aestivation Term used for the summer posite of winter sleep, or hibernation. It seems to be confined to animals and fishes that cannot live in the dry conditions of summer therefore escape by finding a refuge in the ground and there sleeping Certain fish and some kinds of tortoise do this

Affidavit Written statement which the much used in legal proceedings and the person much used in legal proceedings and the person much used in legal proceedings and the person much person much person with a person with the person much person much person with the person much person who makes one must sign it and take an oath before a lawver or magistrate that it is true He is called the deponent. If it is not true, he can be prosecuted for perjury

Affiliation Proceeding to fix the paternity of an illegitimate child The father of an illegitimate child can be made to contribute towards its keep by means of an affiliation order. The mother must take out a summons against the man and show that he was the father If the magistrates are satisfied they will make an order compelling him to pay the expenses of the confinement and a sum not exceeding 20/- a week.

Affirmation Statement used legally oath In Great Britain a person who, for religious or other reasons, does not wish to take an oath when he is giving evidence in a court of law or taking up a public position take an oath when ho is giving evidence in a court of law or taking up a public position can affirm In this case, instead of kissing the Bible after repeating the oath, he simply states that he will speak the truth, or serve the king loyally In 1853 Quakers, who objected to oaths on religious grounds, were first allowed to affirm and in 1898 the same privilege was given to others, provided they declared that they had no religious belief, or that the taking

of caths was contrary to their religious belief. To give false witness after making an affirmation is perjury

Afforestation Planting bare ground with trees It should be distinguished from forestry, which is the care of the trees Afforestation may be undertaken to replace trees cut down or to provide a supply of timber, or to improve the climatic or esthetic conditions of a district.

Until recently afforestation in Britain was left to private individuals. To day it is To day it is supervised by the Forestry Commission This body has planted 205,000 acres in Great Britain, including a considerable area called Breekland on the borders of Norfolk and Suffolk, and large tracts in the Highlands of Scotland The trees chiefly planted are spruce, larch fir, and other conferous trees, which grow much more quickly than do oaks and clms See Forestra

Afghanistan Kingdom of Asia It ritorics ruled by Soviet Russia and Persia and covers 245,000 sq m, but some of its boundaries are not very clearly defined. Kabul is the aro not very clearly defined Kabul is the capital, other places of importance are Mazar i-Sharif, Kandahar and Herat It is under a king who is assisted in the government by a cabinet and national council The people belong to a number of tribes, Afghans, Durani and Uzbegs among them, and in religion are Mohammedans They speak Pushtoo, Persian or Turkitch A system of tree education has been or Turkish A system of free education has been introduced

Aighanistan is a mountainous country, especially in the north-east where are the peaks of the Hindu Kush, some being over 24,000 ft high The main routes to India are passes through the mountains, the chief being the Khyber from Kabul and the Bolan from Kandahar The chief rivers are the Amu Darla, Murghab, Harl Rud, Helmund and Kabul In the valleys the soll is fortile and wheat

In the valleys the soil is fertile and wheat, barley, rice, millet and other crops are grown, also a good deal of fruit. Many sheep are kept and wool and skins are the chief exports There are some minerals and a few native manufactures The country has no rallways, its trade being done by canals, but in 1932 a line was begun from the Russian to the Indian horder. The army which has been respected border The army, which has been reorganised, numbers about 72,000 men, recruited by a kind of conscription, and a small air force The population is about 12,000,000

Before the Christian era Afghanistan was divided into soveral states Later it was conquered by the Persians and invaded by Alexander the Great It was conquered by Turks about 980 and was afterwards part of the Mogul Empire In 1747 Ahmed Khan took Kandahar and founded a dynasty

In the 19th century the country came within the sphere of British interests and in 1838, to protect these, a British force entered it Kabul was occupied and a massacre there led to a further invasion, the war lasting until 1842 In 1878 there was a second war and another massacre, but in the end the British provailed and by treaty secured control of the country's Rahman was ameer and relations with Britain were on the whole good In 1907, however, they concluded a treaty which relieved the tension During the Great War the Afghans were again restless and in 1919 there was a short war with Britain In 1921 Britain recognised the independence of Afghanistan and questions about trade and boundaries were settled

the Amanullah Khan created a good deal of discontent by his fondness for western ideas and a civil war broke out. The ameer was discontent by his fondness for western means and a civil war broke out. The ameer was deposed and a soldier, Nadir Khan, secured the throne and took the title of king.

Africa One of the world's continents. It is surrounded by the sea except.

where the Isthmus of Suez joins it with Asia. On the west is the Atlantic Ocean and on the east the Indian Ocean. The Mediterranean Sea is on the north and the Red Sea on the north east. It is about 5000 m from north to south and about 4000 from east to west and

south and about 4000 from east to west and covers some 11,500,000 sq m. The largest island off the coast is Madagascar

Features of the continent are its unbroken coastline, its vast deserts and its great rivers and lakes. Of the deserts the greatest is the Sahara that divides the countries of the Mediterranean region from the rest of the continent. The largest lakes are Victoria, Chad, Tanganylka, and Nyasa, but there are many others, Edward and Albert among them The principal rivers are the Nile, Congo, Niger and Zambesi, but here again there are many others of considerable size, as the continent others of considerable size, as the continent except for its desert areas, is well watered Africa is not mountainous, though there are high mountains and extensive mountain ranges therein. In the north are the Atlas Mts and in the south are the tablelands that reach their highest point (10,000 ft) in the Drakens berg Mts The highest peaks are the extinct volcanoes near the east coast, Kilimanjaro reaches 20,000 ft.

The majority of the inhabitants are negroes The majority of the inhabitants are negroes of there belong to the Bushmen and Hottentot races. There are Arabs in the north and Dutch and British have settled in the south. They are divided into four language groups, Bantu, Semitic, Hamitic and Sudanic. The continent contains many wild animals, including the lion, rhinoceros and elephant, as well as antelopes and smaller beasts.

Africa is rich in mineral wealth, but much of it is untouched. Notable are the rich gold fields of the Transvaal and the copper deposits in Rhodesia Railways and roads have been built on a considerable scale, but a link is still wanting in the line from Cairo to the Cape The rivers and lakes are used for navigation and there are air routes across the continent.

Long an unknown continent, most of Africa is now ruled by one or other of the European is now rated by one or other of the European powers France has the largest share, this including Algeria, Tunis, part of Morocco, Madagascar and a vast area, chiefly desert, in central and eastern Africa In the British Empire are the Union of South Africa and the adjacent areas, Rhodesia, northern and southern, Basutoland, Swaziland and the protectorate of Bechuanaland. Elsewhere in protectorate of Bechuanaland. Elsewhere in the continent the British possessions are the five large protectorates of Uganda Nigeria, Nyasaland, Kenya and Somaliland, Zanzibar, Gambia, Sierra Leone, Mauritius, the Gold Coast, the Sudan and several groups of islands Tanganyika, South-West Africa, part of Togoland and part of Cameroon are governed under mandate

Altogether Great Britain is responsible for 4,650,000 sq m of Africa and France for rather 4,650,000 sq m of Africa and France for Runer more The remaining area includes two in dependent kingdoms, Abyssinia and Egypt Of the rest, Italy has Eritrea, Tripolitania and Cyrenaica, Portugal has Angola and Mozam bique Spain has part of Morocco, Rio de Oro and Spanish Guinea and Belgium has the

Belgian Congo

Northern Africa has shared in the civilisation of Europe and Phœnicians, Greeks and Romans made settlements therein The rest of the continent was unknown until Portuguese navigators began to sall along the coast in the 15th century British and other scamen followed their example and in time trading posts were established at Capetown and elsewhere In the 18th century the Dutch made settlements in South Africa and in the 19th the interior of the country was explored As a result claims were staked out over most of the continent by the various European powers, among them Germany, but one consequence of the Great War was to deprive her of her African colonies and to give these to other nations to rule under mandate from the League of Nations The German Ter ritories so treated were Kenya, formerly German East Africa, South-West Africa, German East Africa, Cameroon and Togoland.

Afridi Asiatic Turks living on the frontiers of India and Afghanistan. They are Pathans in race, Mahommedans in religion and speak Pushtoo They have frequently by their raids caused trouble on the Indian frontier Association Afrikander Bond formed in Cape Colony by Reverend S J du Toit, with the object of making South Africa a self-governing republic, and securing the pre-dominance of the Dutch in Cape politics Its alms were partially achieved, but its hostile attitude to Britain was modified by Rhodes.

Agadır Scaport of Morocco which came into prominence in 1911 In July the German government sent the gunboat, Panther, to Agadir to promise the chiefs in the district support against France The relations between France and Germany were con-sequently very strained for a time, but in the end an agreement was made between them

Biblical character He was a king Agag Biblical character He was a king of the Amalekites Saul made him prisoner but against the divine command spared his life Therefore he was cut in pieces by Samuel at Gilgal (1 Sam xv)

Aga Khan Name given to the hereditary chief of the Ismailite sect of the Mahommedans His real name was Hasan Ali Shah and he was born in 1800 He became governor general of a province in Persia, but later settled in Bombay and helped the British in their wars against

the Sikhs and the Afghans He died in 1881
His grandson, Aga Khan III, rendered great
service to Britain during the Great War and
took a prominent part in the discussions about
the affairs of India in 1929 31 In 1930 he won the Derby with Blenheim, and in 1935 with Bahram. Bahram also won the Two Thousand Guineas and the St Leger in the same year

Agamemnon Greek hero and King Agamemnon of Mycene, a son of Mycene and brother of Menelaus the husband of Helen He led the Greeks to Troy and while there had his famous quarrel with Achilles as to who should have the captive girl Brisels. On his return home he was murdered by his false wife Clytæmnestra

Agape Love feast held in the Christian church in early times It was held before or after the Eucharist, and one of its objects was to assist the poorer members of the church. It is referred to by S. Paul (1 Cor. xi) and in Jude Later the feasts became scenes of greed and gluttony, so they

were concemned by the church councils and lifter a time they chased to be held

In 1859 Henry James Prince formed a community at Spaxton in Somerset which he talled the agapenione It consisted of both men and wonion who had all things in common in the state of the H Smyth Piggott succeeded Prince as head in 1899

Agar Agar Malayan name for a sed-moss It is used for making fellies and soups and also as a varnish for papers A modern use is its adoption by scientists for the pre-paration of bacteriological media. A modern

Agate Variety of stone It is a silica and the making of scientific instruments Coloured varieties are used for ornamental stones, under the names of cornellan, onvx and others hands which mark the stone and due to pauses

Agatha Christian saint and martyr She was born in Sicily and was put to death in 251 She was canonised, her day being Feb 5

Agave Large flowering plant. A native of Mexico, it has large, thick leaves, some as much as five feet long. The leaves, some its much as five feet four the storid which bears an enormous group of yellow-green flowers is sometimes 40 ft. high the agave will grow in Great Britain. The agave will grow in Great Britain. The chief kinds are Americana, Applantia and Ferox. The plant does not bloom until it is 20 or more years old. To this fact it owes its name of the century plant, as it was believed to take a century before it flowered. It is also called the American Aloe, as it rescribbles the true aloe. trae alce

Agent in English law one who acts for Agent another called the principal. The relations between the two are defined by the law of agency. The agent differs from a contractor and from a servant, for although, like a servant, he must obey orders, he does not act under supervision. He has power to bind his principal to the extent of his authority, but this is revoked by the principal's death or bankruptey. The agent must be reimbursed for his expenses, and is entitled to the agreed for his expenses, and is entitled to the agreed remuneration, but he must not make any other profit out of the transaction. An agent who takes a bribe can be prosecuted for a criminal

Agesilaus King of Sparta He became king in 398 Bc when the kingdom was at the height of its power, made war on the Persians, invaded their country and won a number of battles over them The news that some other Greek cities were attacking Sparta forced him to return to Europe and he defeated the alliance at Corones in 394 In 371 when the Spartans were detected. and he deleated the amance at coronea in 394 In 371 when the Spartans were detected by the Thebans at Leuctra, the efforts of Agesilaus saved the independence of the country In 301 he went to Egypt to renew the war against the Persians, but his plans falled He was drowned in 360 Xenophor and Plutarch wrote biographics of Agesilaus

Agincourt Village of France It is about 20 m from the coast and rather more from Boulogne Here on Oct. 25, 1415, the English under Henry V defeated the French The battle lasted about three hours and the French lost heavily

Agistment Word meaning "the practice of hiring grazing for cattle" In English law the person who allows the stamp; otherwise cattle to graze on his land in return for payment in a court of law

were condemned by the church councils and must take reasonable care of them or he will

Agni The god of fire in Hindu mythology three legs and seven arms and is usually attended by a ram

Agnosticism Condition of not know-ing It comes from the Greek and was first used in 1869 by T. H Huxley to denote his attitude towards certain religious questions It expresses the ideas of a large number of people who feel that upon such great matters as the existence of a personal God and the future life all we can say is that we do not know

Agony Column Part of a newsadvertisements of a personal kind. It refers chiefly to those on the front page of The Times, because at first many of them were appeals from persons who had lost friends. At present it is used for personal advertisements

Nervous disease which Agoraphobia Nervous disease which takes the form of a fear of large spaces In the presence of such tear of large spaces. In the presence of such the sufferer's heart palpitates and he or she trembles and turns cold. It is a kind of auxiety neurosis and treatment is by means of psychological investigation or psycho analysis. The word means "fear of the market place," as the agora was the meeting place, or market place, of a Greek city, corresponding to the Roman forum.

Agouti Name of a rodent found in South America and the West Indies It belongs to the genus Dasyprocla It is rather like a rabbit, except that it lacks the long ears, and it has three toes on each of the hind limbs. The animal lives in the woods and does much damage to the sugar plantations

Agra City of India It stands on the Jumna, 120 m from Delhi. The city is now a great commercial centre. It has a trade in grain, dotton and sugar and also a number of manufactures

Agra is historically a place of considerable interest. It was founded by Akbar the Great in 1566 and for nearly a century was the capital of the Mogul Empire The fortress built by Akbar still stands, round it is a wall 1½ miles long and 70 ft. high Inside is the palace of the Shah Jahan The city has two magnificent mosques and other native buildings, as well as Government. Hope and the colleges connected Government House and the colleges connected with the university of Agra founded in 1927 Agra is the chief town of a district in the United Provinces of Agra and Oudh Pop (1931), 229,764

Agrapha Term used for those sayings of Jesus Christ that are not of Jesus Christ that are not found in the Gospels Such are the sayings found at Oxyrhynchus in 1897 and 1904, while others are in documents that have long been known The term is also used by some for those sayings of Christ which, although found in the Gospels, are believed to have been inserted at a later date

Agreement In English law, a written undertaking to do a cortain thing At least two persons must be parties to an agreement, which, though not a contract, is governed by the law of contract. There are numerous kinds of agreements, e.g., between master and servant, publisher and author, landlord and tenant. An agreement author, ha statuned beyond, with a signement must be stamped, usually with a sixpenny stamp; otherwise it cannot be used as evidence

Agricola dier He was born in AD 37, Med in 59 60 was in Britain as an officer in the and in 59 60 was in Britain as an officer in the surface and in 75 from 74-76 he was governor of Roman army From 14-76 he was governor of Britain He led an Aquitania and in 77 he was consul He led an to 88 he was governor of Britain He led an army into Scotland and defeated the Scotland army into Scotland and defeated the Scotland Britain Scotland 18 sometimes called farming, the soil It is sometimes called farming, and set of the soil at the word suggests this industry on the soil this word suggests this industry on the somewhat smaller scale as including the production of food stuffs of all kinds stuffs of all kinds agriculture is the oldest of the world, and industries and set in the oldest of the world.

stuffs of all kinds the oldest of the world's Agriculture is the largest and most im hustries and still the largest and most im portant, whether regarded from the standpoint of giving work, or producing wealth it is also the most widespread Although certain the most widespread to all agriculture, its principles are common widely according to practice differs very widespread conditions olimatic, economic and other conditions olimatic, economic and possible survey, agric Taking the widest possible survey,

principles are common to all agriculture, its procise differs very widely according to the committee conomic and other conditions. Taking the widest possible survey, agriculture may be divided into three greats to the conditions of the condition of cereals rice, sugar, tea, coffee and other foodstuffs (3) The rearing of live stock, The foodstuffs (3) The rearing of live stock, The cluding cattle for milk, and poultry (3) market with the condition of fruit and vegetables branches for growing of ruit and vegetables branches for growing of fruit and vegetables branches for growing of fruit and there are rowing of growing of in addition as the growing of state of the cultivation of hops, soya bees to bacco, the cultivation of hops, soya bees to the condition of the condition of growing the condition of the from the carliest times, from the Iron Age of the first methods where rabbits and foxes are strongly in the lith contury, the source and the implements were used the through the implements were used the through the contury of livestock. The growing of root crops turies and another important change was an improved rotation of crops.

In the 19th century vast and paralleled in the 19th century vast and another important change was an interpret to the live contury vast and another important change was an interpret to the live to keep the cattle alignment to the live to keep the cattle alignment to severe and another important change was an interpret to the live contury vast and another important change was an interpret to the live to the live cattle and another important change was an interpret to the live contury vast and another important change was an interpret to the live contury vast and another important change was an interpret to the live contury vast and another important change was an interpret to the live to the live contury vast and another important change was an interpret to the live to the contury vast and another important change

winter and another important change was an improved rotation of crops.

In the 19th century vast and unparalleled in the 19th century vast and unparalleled changes took place in agriculture, chiefly, but not entirely, the results of scientific develop ments. The introduction of steam made it not entirely, the results of steam and petrologistic to sow and reap on an enormous scale nears, use was made of electricity and petrologistic to sow and of electricity and petrologistic transfer, not only as a means of treating the machines, but as a means of treating the soil Other improvements were the discovery the soil Other improvements were the discovery the soil Other improvements were the discovery and use of artificial manures and artificial and use of artificial manures. the soil Other improvements were the discovery and use of artificial manures and artificial feeding stuffs. Great improvements were made in the breeding of animals and in the selection and preparation of seeds Immense rigation schemes made vast additions to the interest of inner that is capable of growing crops area of land that is capable of growing crops into six of introduced were introduced governments, founded and conducted experimental farms, founded and conducted experimental farms, methods were introduced Governments founded and conducted experimental farms, where new ideas were continually being tried

boards to fix the wages of agricultural labourers boards to fix the wages of agricultural labourers in is being tried after a short experience in fixing them by law Another aspect is the fixing them by law is it better to have state ownership of land is it better to have state ownership, as in Soviet Russia, or ownership by the peasants as in France and Ireland, or ownership by the peasants as in Getter of landlord who is in Great Britain (although to a declining extent) ownership by a class of landlord who provides buildings and lets out the land thus of land the land of the farmer?

on the economic side the changes of the 19th On the economic side the changes of the 19th century were sufficiently important to mert notice, although in their results they cannot compare with those brought about by science and invention National could week used on a equipped to the farmer? National credit was used on a and invention National credit was used on a large scale to assist men to acquire land for farming, and societies formed to give credit and so facilitate the sale of agricultural product in 1023 a perional scheme for generalize credits. and so facilitate the sale of agricultural produce.
In 1923 a national scheme for granting credits to farmers in Great Britain was introduced.
Insurance schemes both for livestock and the crops, have been devised. In some countries the co operative movement has done much to help agriculture Combinations of producers

erops, have been devised. In some countries the co operative movement has done much to help agriculture Combinations of produces, take the produce of the farm milk for instance, and sell the butter and cheese Denmark is a country in which co operation in producing bacon has been greatly developed to the agricultural interest in the 19th century was the imposition of tariffs on imported to the agricultural interest in the 19th century was the imposition of assistance 1840 in foodstuffs—a form of assistance 1840 in abandoned by Great Britain in 1932 others policy Certain agricultural imports word in produce of a heavy tax and in 1932 others is subjected to a heavy tax and in 1932 others of adopted to help agricultural included for revenue purposes on imports The policy of the import of wheat by means of the quota system and preferences given to the quota system and preferences given to the result of all this energy, scientific and otherwise, became obvious in the 20th century repeated to the commercial crisis represented by a folicit, and the prices of nearly all primary products, and the prices of nearly all primary products.

produces accumed such proportions of the result was stocks were left unconsumed. The result was a commercial crisis represented by a full in the prices of nearly all primary products, and the consequent impoverishment and the consequent impoverishment and bankruptev of thousands of producers and the naversed communities at bankruptev of thousands of producers. In the constitution of the result was provided by the institution of agricultural societies, shows and clubs of agricultural societies, shows and clubs one is the Royal Agricultural Society at Bedford the Royal Agricultural Society at Bedford Square, London, W C Of the shows, the chief square, London, w C Of the shows, the chief square, London by the Square, London and the one held in the country are the one held each year in London by the Smithfield Club and the one held in the country by the Agricultural Society. Smithfield Club and the one neighbors at attention by the Agricultural Society Great attention is paid to pedigree stock and records are very carefully kept The Agricultural Organisation Society and other societies of that kind do yaluable work in other directions See Barley, valuable work in other directions, Pountry, CHEESE, MAIZE, BUTTER,

AGRICULTURE AS A CAREER The pros pects for a farmer in this country are none too promising, but in the Dominions the oppor-tantities for an energetic and enterprising man WHEAT OULTURE AS A CAREER AGRICULTURE in this country a

tunities for an energetic and enterprising man are boundless framing in agriculture is to be had The best training in agriculture is to be had by practical service on a working farm for a period of three years, and the annual premium period of three years, and the annual premium is about £100 In addition to practical training, out

The cconomic side of agriculture is of a period of three years, and the annual premium period of three years, and the annual premium. The provision of the ments attached to the universities and at the independent schools of agriculture at Circn cester, Wvc, Reading Newport, Newton Abbot, Sutton Bonnington and in Scotland at Glasgow, Edinburgh, Aberdeen, and Kil-marnock Fees at Agricultural Schools vary from £80 to £150 per annum

Agriculture does not, as a rule, offer much scope to women, though the Agricultural Colleges receive women students for the

Colleges receive women students for the degree of B.Sc in Agriculture, for which a three years' course is necessary

In Dairy Work, however, there are considerable openings for women, whether with dairy farms of their own, as dairymaids on the states in the colories or as lecturers. large estates, in the colonies, or as lecturers and instructresses on the subject To obtain work as a lecturer, instructress, or a director of work, a diploma is necessary—given at the end of a two years' course at one of the Dairy Schools throughout the country But for ordinary dairy work either at home or abroad, a considerably shorter course is all that should be necessary for any one with aptitude for the work, especially if experience has already been obtained in a dairy or on a farm

The principal training centres, where both short and diploma courses may be taken, are the Dairy Schools of Sutton Bonnington, of Reading, of Chelmsford, and of Kilmarnock in Scotland, but there are various other less well-known schools

AGRICULTURE AND FISHERIES MINISTRY OF Department of state It looks after the interests of agriculture and fisheries for England and Wales, but not for the Irish Free State or Northern Ireland, which have their own boards, or for Scotland, which also has its own Board of Agriculture. It is also responsible for the Ordnance Survey and Kew Gardens. The ministry collects statistics and administers the law concerning discovery of activation and firms of agricultural. diseases of animals and fixing of agricultural diseases of animals and fixing of agricultural wages, and has departments for encouraging education and research. The Board of Agriculture was set up in 1889, and in 1903 took over the duties of the Fishery Dept of the Board of Trade. In 1909 it was made a ministry. Its head offices are in Whitehall, London, S.W.

Agrigentum Greek city in Sicily It occupied the site where Girgenti now stands and was one of the largest cities in the island. It was founded about 582 B C by some Greeks and soon became rich In 405 it was destroyed by the Carthaginians, but was soon rebuilt, and flourished for several centuries. The city is famous for the ruins of its towns. its temple, one of the finest and most perfect examples of Greek architecture extant. It was dedicated to Jupiter Other Greek remains have been found, some having been brought to light in 1932

Agrimony Perennial of herbaceons A wavside and growth meadow plant blooming in England in June and July, it bears terminal spikes of small vellow flowers about 2 ft in height, and the stem leaves are interruptedly pennate. The root possesses astringent and tonic qualities, and also violds a yellow dye

Agrippa Name of two rulers of Judga.

Agrippa I, a grandson of Herod
the Great, is mentioned in The Acts of the
Apostles and by Josephus He was responsible
for the death of S Justice He was responsible for the death of S James and the imprisonment of S Peter, and met a loathsome end

Tyne, Edinburgh, Glasgow, Aberdeen, and Agrippa II was the ruler before whom S Paul Wales, where there are agricultural depart- appeared (Acts xxv-xxvi) After the apostle's appeared (Acts xxv-xxvi) After the apostle's speech he said "almost thou persuadest me to be a Christian" He was governor of Judea when Jerusalem was destroved after which he returned to Rome He died in a D 100

Agrippa Marcus Vipsanius Roman to the front during the civil war that followed the death of Julius Cresar He rendered great services to the cause of Cresar's nephew, Octavian, at first in Gaul and later in command of the fleet that won the battle of Actium, and after Octavian became emperor led the Roman armies in Europe and Asia, winning many successes He was famed also as a builder and a patron of letters

Agrippina Name of two Roman ladies Agrippina the Elder was a daughter of Marcus Vipsanius Agrippa and a granddaughter of the Emperor Augustus she married the Emperor Germanicus and was the mother of Caligula and Agrippina the Younger She died A D 33, when she was in exile, by starving herself slowly to death Agrippina the Younger married first Gueus

Domitius Ahenobarbus, and their child was the future Emperor Nero She married as her second husband the Emperor Claudius, and by his influence secured the throne for Nero She is believed to have poisoned Claudius, as she did others who displeased her, and in AD 59 she herself was put to death by Noro

King of Israel A son of Omri, he Ahab succeeded his father and reigned over Israel for 22 years (875-53 BC) married Jezebel, daughter of the King of Tyre, and through her influence began to worship Baal His story is told in 2 Kings

Ahasuerus Persia mentioned in the Old Testament. One of them, the husband of Esther, is usually identified with Xerxes. Abasucrus is also the name of the chief character in the legend of the Wandering Jow

Ahaz King of Judah A son of Jotham, he succeeded his father as king and reigned for about 20 years (735-15 BC) He paid tribute to Tigiath-Pileser, King of Assyria, who had helped him against the kings of Israel and Syria (2 Kings, xvi, 2 Chron xxviii)

Ahimelech High Priest of the Jews The only recorded incident in his life is that he gave the shewbread to David when he was hungry, and also Gollath's sword For this he and his family were put to death by Saul (1 Sam xxi-xxii) Another Ahimelech was one of David's associates (1 Sam vxvi)

Ahithophel Friend of David After acting as confidential adviser to the king he joined Absalom in his rebellion (2 Sam xv, 17) Foreseeing failure he hanged himself In Dryden's satire, Absalom and Actophel, Abithophel is the name given to the Earl of Shaftesbury

Ahmadabad City of India The chief town of Ahmadabad district, it is on the River Sabarmati, 310 m from Bombay The older part is still surrounded by its walls Of the buildings, the chief are the great mosque, famous for its minarets, the great mosque and a Jain temple. The city has some flourishing industries, including the manufacture of cotton, thread, paper and pottery. Ahmadabad was a great city in the cotton of the Maryland was a great city in the pottery. time of the Mogul emperors, and was the capital

of the kingdom of Gujarat. In 1818 it became a British possession Pop (1931), 313,789

Ahrıman Name of the spirit of evil in the Zoroastrian religion He is opposed to Ormuzd (qv) the spirit of good, the two being regarded as equal, but in the end he will be beaten He is at the head of a band of spirits and corresponds to the Satan of the Old Testament

## Ahura Mazda. See Ormuzo

City of Canaan It lay to the east of Bethel and is mentioned in Genesis It was a great Canaanite centre when the Israelites invaded their land. The Israelites were de feated here, but later the city was destroyed by Joshua (Joshua vil -viii)

A1d In feudal times a payment made by landowners to the king English kings first took aids from their tenants as often as they wanted, but in the 12th century it was recognised that there were only three occasions on which an aid would be taken by the king (1) when his eldest son was knighted, (2) when his eldest daughter was married, (3) when he himself needed ransom. These aids continued until the reign of Charles II, when they were abolished

Aidan British saint. He became a monk at Iona, but his chief work was done in Northumbria in the 7th century. He settled on the Island of Lindisfarne and in 635 became its first bishop. He did a good deal to convert the people to Christianity. Aidan died at Rembersuph. Arg. 31, 651 died at Bamborough, Aug 31, 651

Aide-de-camp In the fighting services an officer who attends on an officer of high rank Every admiral and general when on active service had one or more aides de-camp who carry out his orders and look after his comfort. Dis tinguished officers are appointed Aide de-camp to the King The usual abbreviation is A D C

Aigues Mortes Scaport of France Mimes and 3 from the Mediterranean A canal ans from the town to the sea, but the place as lost the importance it had in the Middle Ages It is famous, however because its walls and towers, built about 1280, are still almost complete making it one of the most perfect medieral towns in existence Pop 4300

A1lsa Marquess of Scottish title held by the family of Kennedy In 1482 Gilbert Kennedy was made a lord and in 1509 his descendant was made Earl of Cassilis He was killed at Floiden and the 3rd earl was poisoned in France In 1831 the 12th earl was made a marquess The family seat is Culzean Castle, Ayrahire, and the eldest son is called Earl of Cassilis The title is taken from Allsa Craig, an island rock at the mouth of the Firth of Clyde

Ainley Henry Hincheliffe English actor Born at Morley, near Leeds, Aug 21, 1879, he became a bank clerk at Sheffield He soon left this to become an actor and, after fouring with F R. Benson, made his first appearance in London in 1900 Ainley has made successful appearances in many Shakespearean parts, also in Trilby, Peter Pan The Little Minister and The Great Adventure. Since 1919 his pieces have included Hassan, The Dorer Road Oliver Cromwell, The First Mrs Fraser and Tobias and the Angel (1932) He has also played in the United States and Australia

Ainsworth William Harrison English novelist He was born in Manchester, Feb 4, 1805, and was educated at the grammar school there He studied law. but soon gave it up for writing In 1834, then llving in London, he published Rookwood, This was his first success and for nearly In 1834. 50 years he was writing novels His most popular books are The Toucr of London, Old St Paul's, Jack Sheppard and Windsor Castle He edited Benliey's Miscellany, and for eleven years had his own paper, worth's Mayazine. He died Jan 3, 1882

Aintree District outside Liverpool on the L.M.S. Rly It is famous because here is the racecourse where the Grand National Steeplechase is run

Gas breathed by men and other animals in order to maintain life. It consists of nitrogen, 78 per cent, and oxygen, 21 per cent, the remaining 1 per cent, being argon, carbon dioxide, helium and other gases in very small amounts. The air extends around the carth to a distance of over 200 m, but as it becomes higher it becomes rarer, or less charged with oxygen Consequently breathing becomes more difficult, until, as the climbers of Mt Everest found, it is impossible

climbers of Mt Everest found, it is impossible to proceed higher and live
The deloterious gas in the air is carbon dioxide This is given out by human beings as they breathe and consequently the air around becomes more charged with it, unless it is counteracted by the action of trees and plants which absorb it. On this account great attention is paid by builders, medical men and others to the ventilation of houses and other buildings In modern factories and workshops a certain amount of air, measured in cubic feet, is allowed to each worker
Air can be heated, liquefied, or compressed, and is used in these ways as a source of power

and is used in these ways as a source of power An air engine obtains its power by the alternate heating and cooling of air, which causes it to

expand and contract

Air is compressed for use in engineering and manufacturing operations. In this way enormous force is given to it, and it is utilised in drilling, riveting, etc. Tools worked by compressed air are used for breaking hard surfaces and other purposes. The air lock, for raising water or oil, is worked by the same force, as is the air cru.

the air gun
Since the invention of aircraft the air has
had a new significance There is new a law of the air, just as there is a law of the sea, each country being responsible for the air above its territory See Aircraft, Ventilation

Airbrush Device for spraying paint, lacquers, etc., upon a surface by means of compressed all, the instrument consisting essentially of a paint reservoir, air pump and holder with nozzles At first used chiefly by artists, various types of airbrush are now used extensively in applying cellulose paints and chambels in the furniture, motor and other industries

Air Council Department of the is responsible for the control of the Royal Air Force, and of fiving generally Its president is the Secretary of State for Air, and it consists of five other members and a secretary The offices are at Gwydyr House, Whitehall, London S W 1

Aircraft Name of any airship, aeroplane or other flying machine in Great Britain as in other countries all aircraft

must be registered, and in 1933 there were 1055 machines on the civil register which is kept by the Air Ministry The machines are registered after having been passed by the Ministry or the British Corporation as airworthy Of the machines 408 were privately owned and 80 belonged to clubs

The system of marking aircraft is similar to that of marking motor vehicles. A letter is given to each country, and the machines marked with that letter followed by letters from AAA to ZZZ. Thus Great Britain has the letters G and M, so her machines are marked G.AAA or M.AAA, and so on.

The letters assigned to other countries are tallows.

as follows

Belgium, ON France, P Germany D

Spain, E A.

Italy I.

Netherland PH Switzerland, HB
Norway I.A.

Switzerland, HB
United States, h. Irish Free State E L

Aircraft Carrier Warship fitted planes In the British navy the first was the Ark Royal, launched in 1914 Others were added, these being cruisers converted to this use Some were retained after the conclusion of the war, and in 1932 there were three carriers commission, Furnous, Glorious, and agrous The tonnage of these ships must Contrageous not exceed 27,000 tons according to the agreement made at Washington in 1924

Airdrie Burgh and market town of the Lanarkshire, 11 m from Glasgow The I.MS Rly The industries include on the LMS Rly The industries include engineering works, cotton and paper mills, while around are coal mines Pop (1931) 25,954

Aire River of Yorkshire It rises in the Pennine Hills in Lancashire, but soon passes through the Aire Gap into Yorkshire, crosses the county and joins the Ouse near Howden. Its length is 70 m. The valley through which the Aire flows is called Airedale This is a beautiful district stretching from Malham Cove to Leeds The Aire and Calder Navigation is a system of rivers and canala that serves the large Yorkshire cities and towns. The chief branches are from Goole to Leeds and from Castleford to Wakefield

The Airedale terrier is a breed of terrier

first bred in Airedale A good sporting dog, he may be either rough or smooth-haired.

Air Force Royal Name of the air service of Great Britain It was created in 1918 when the Royal Naval Air Service and the Royal Flying Corps were amalgamated The men wear a uniform of light blue and the motto is per ardua ad astra. It is controlled by the Air Council and is divided into commands, some at home and others abroad It has a college for cadets at Cranwell and one for staff training at Andover It has its own medical and nursing services

The commissioned officers rank as follows marshal of the air, air chief marshal, air marshal, air vice-marshal, air commodore, group captain, wing commander, squadron leader, flight licutenant, fiving officer, or observer, and pilot officer The non-commissioned officers are flight sergeant, sergeant and corporal The replicable standard age alternitymen corporal The rank and file are aircraftsmen, who enter the service as apprentices Officers enter after competitive examination, and a course at Cranwell. Air forces are organised in groups, wings and squadrons. In May, 1935, a new air programme (to be completed in March, 1937) was designed to be completed in March, 1937). 1937) was designed to raise the home strength to 1500 first-line machines and 55,500 men

The distinctions given to airmen are the Air Force Cross and the Air Force Medal The former is given to officers and warrant officers and the latter to non-commissioned officers and men

Within recent years all the great powers-Gt Britain, Germany, Russia, France, USA Italy, Japan-have increased their air strength enormously

THE AIR FORCE AS A CAREER Air Force offers a permanent career which is in general no less advantageous than either the Navy or the Army, and the inclusive cost including the provision of uniform at Cranwell, 13 at a maximum £250 for the two-year course. The curriculum comprises a wide variety of

subjects, and a satisfactory standard of educational attainments coupled with a high degree of physical fitness are essential.

Boys enter the RAF College as Flight Cadets at the age of 17½-19½ the necessary qualifications being success in the examination for admission thereto which is open to have for admission thereto which is open to boys possessing the Schools Certificate or equivalent education qualifications, or who are nominated to take the entrance examination by the Head-Permanent master of an approved school Commissions may also be obtained through a recognised university by graduates between 20 and 25 years of age, and a limited number of exceptionally able men are promoted from Short Service Commissions or from the ranks

In the ranks of the Air Force, which embrace many skilled trades, facilities are always offered for further education and for training to enter

a civil career

Base where aircraft arrive and Airport depart. They are usually known as acrodromes, but the term airport is coming into uso, doubtless in consideration of their increasing size In 1931 eight airports, 1 c, places which have custom houses so that goods and passongers can land from abroad, were recognised They are Croy don, Dover, Lympne, Heston, Woolston (Southampton), Barton (Manchester), Liverpool and Cardington

Form of aircraft that depends Airship for its support upon gas that is lighter than air, and is contained in a balloon or other kind of envelope The first airships were balloons from which one or more cars for engines, fuel and crew were suspended. These were known as non-rigid, and the earliest were built for naval and military purposes The British Government built several, one being the Null Secundus and another the

Mayfy, which met with disaster
The first rigid airships were the Zeppelins which were built in Germany and were very prominent during the Great War, although they did not fulfil the expectations of their creators After the war several nations took up the building of airships The British Govern-ment constructed R33 and R34, and later R100 and R101, but the disaster to R101 in 1930 put a stop to further developments in this

direction

A rigid airship of the latest type consists of a A rigid diffilip of the latest type consists of a framework of girders of a light metal or alloy, aluminum or duralumin. This is divided into compartments for holding the gas which may be either hydrogen or holium. Outside is a fabric envelope with a space between it and the metal framework. The accommodation for passengers, engines, fuel, etc. is within the framework, but cars for controlling the vessel are suspended from it. The ship is driven by air scrows which obtain their power from petrol engines She is kept stable by fins on the tall

and other accessories for directing her are the rudders and the clovator . To enable a ship to come to rest, mooring masts are necessary The largest airships are over 700 ft long

The largest airships are over 700 ft long. The R101 was 800 ft long, and the Graf Zeppelin, which in 1929 made a trip round the world, was 776 ft. The American Zeppelin (Z R8 4) called the Ak-on, which was caught in a thunderstorm and crashed into the sea off the New Jersey coast in 1933, was capable of a speed of 47 m per hour and was 785 ft long Her gas capacity was 6,500,000 cubic feet and she could litt 180 tons.

A1rwheel Name given the form of motor Car tyre introduced in 1932.

An aeroplane tyre on the same principle was introduced in 1930. The car airwheel is so called because it does away with the ordinary. road wheel and acts as an air cushion against the inequalities of the road The big low pressure tyro is mounted directly on the hub, without spokes or rim, and can be run on pressures as low as 10 lb to the square inch Owing to its size and low pressure it can sur owing to its size and low pressure it can surmount obstacles such as kerbs with but little shock. It also offers from 2 to 21 times more surface to the road and this, apart from possibly increased tractive effort, should materially reduce the risk of skidding and consequent side slip.

Aisle Part of a church The aisles are at the sides, being usually separated by pillars from the nave, or centre The word comes from the Latin ala, a wing, and the idea was copied from the Roman basilicas Also used to denote the passage way between the seats in a church or theatre

Alsne River of France It rises in the Messer of the country and falls into the Oise near Complegne It is 175 m long A department of France with Laon as its

A department of France with Laon as its capital is named after it
During the Great War there was almost constant fighting along the Aisne In Sept, 1914, the French and British having turned back the German advance at the battle of the Marne, followed them to the Aisne The Germans crossed the river and made trenches on the bills above from which they controlled on the hills above from which they controlled the passage of the river for about 100 miles. The battle ended on Sept. 20, after which a

long period of trench warfare began
Another battle was fought in April and May,
1917 The French crossed the river and made an attack on the German forces Some successes were gained, but the losses were high, and the

enterprise was abandoned

A year later the Germans attacked They crossed the river and driving the French before them reached the Marne, recovering a great deal of ground they had won and lost in 1914. This took place in May, and a little later the final advance of the Allies began.

Aix-la-Chapelle City of Germany, also called Aachen In the north west of the country, it is an in dustrial centre, an inland watering place and a town of much historic interest. It is well served by railways, stands on an important coaffield and has manufactures of woollen goods, chemicals, etc. The mineral springs, known to the Romans, bring many visitors, for them there are indeed and attacking the server of the whom there are indoor and outdoor attractions

In it are relics of the emperor. In the town In it are relies of the emperor in the town hall, a fine building of the 14th century, is the coronation hall in which, until 1582, the German emperors were crowned There is a Grashaus, used for the city archives The Kurhaus, the Kursaal and many hotels may be mentioned, as may be Kurpark 1897 the city has included Burtscheld Since 156.000

In 1748 the war of the Austrian Succession was ended by a treaty signed at Aix la Chapelle A European conference was held here in 1818

Aix-les-Bains Town and watering place of France It is in Savoy, 8 m from Chambery, on the main line from Paris to Turin It is famous for its warm mineral waters, which are taken by persons suffering from rheumatism, gout and the like The town has a casino and other attractions for visitors, while around is much beautiful scenery Lake Bourget is only a mile away The Romans used the waters, and there are remains of their temples and baths

Ajaccio Capital of Corsica It stands on a bay called after it The chief buildings are the cathedral and other churches, the museums and the library The house (Casa Bonaparte) in which the great Napoleon was born, still stands The city has a good harbour and from here steamers go regularly to Marsellles Pop 22 600

Ajax Name of two legendary Greek heroes one was the son of Telamon With other heroes be went to the Trojan War and, after the death of Achilles, was one of the claimants for that hero's armour When it was given to Odysseus he killed himself

The lesser Ajax was a son of Oileus He too fought against the Trojans Having profuned the temple of Athena, he was shipwrecked on the return home He found refuge on a rock, but this was shattored by Poseidon, and the

here was drowned

Ajmer City of India. It is in Rajputana 220 m from Delhi, and is the chief town of the province of Ajmer Merwara. Founded by Albar the Great, it has some old buildings including a Jain temple converted into a mosque The tomb of Kwaja, a saint of

into a mosque The tomb of Kwaja, a saint of the 13th century, is a place of pligrimage for Mohammedans It is a railway centre and has some modern industries Pop 119,305

Ajowan Fruit grown in Bengal, India. It is very like the caraway, and is produced on an umbelliferous plant The fruits are dried and used in cooking, and also in medicine for relief of colle flatulence, etc. in medicine for relief of colic, flatulence, etc

Akbar Mogul emperor known as the He was born in Oct 1542 In 1556 his father died and he became emperor He continued the policy of conquest, and in a short time his empire covered a great part of India Over this he ruled in a most enlightened India Over this he ruled in a most enlightened way Although a Mohammedan he allowed toleration to all creeds and employed Hindus in his service equality with his co religionists. He forbade slavery and dealing in slaves, abolished iniquitous taxes and brought in other reforms that belong to a later age He died at Agra, Oct 15, 1605 Albar's real name was Jelah-ed din Mahammed

whom there are indoor and outdoor attractions. Historically Aix is known for its association with Charlemagne. He built here a palace and made the place his capital. He also built the cathedral in which he was buried although amazing religious revival he instituted when much of the present building is of later date.

introduced the new cult of Aton, the sun, represented as the Divino Origin of All Life

Akka Race of pigmies. They are found in central Africa where they were discovered in some forests near the Congo in 1869 They have large heads, woolly hair and long arms They average between 4 and 5 ft. in height and are of negroid race

Akkad Ancient city of Assyria It was apparently the capital of Sargon, King of Assyria, and was situated on the Tigris In Genesis v it is referred to as Accad The site has been excavated and many proofs of its magnificence have come to light

Akron City of Ohio It is 36 m from Cleveland and is a great industrial centre, well served by railways and on the Ohio Canal The great American airship Akron was named after the place Pop (1930) 255,040 Sec AIRSHIP

River and State of the United Alabama States The Alabama River is over 300 m long and flows through the State until it joins the Tombigbee and becomes the Mobile It is formed by a union of the

Coosa and the Tallapoosa

The State of Alabama is in the south east of the country, and, except for a short coastline on the Gulf of Mexico, is wholly inland Its area is 51,998 sq m Montgomery is the capital, but Birmingham and Mobile, its chief scaport, are larger The rivers are the Alabama and the Tennessee The area is level except in the north-east, and maize, cotton rice and other crops are extensively grown There are other crops are extensively grown There are large pine forests. Pop (1930) 2,646,248, of whom 35.7 per cent are negroes

The Alabama Question was a dispute which nearly led to war between Great Britain and the United States The ship Alabama left Birkenhead in July, 1862, when the Civil War was in progress She was commanded by War was in progress She was commanded by a southerner and did great damage to the shipping of the northerners, who blamed Great Britain for allowing her to leave, the more so After a long dispute the matter was referred to arbitration, and in 1872 it was agreed that Great Britain should pay £3,230,000 for damages done by the Alabama

Alabaster Ornamental stone Alabaster really gypsum, which is a hydrated substance of lime. It is found in Great Britain, and when polished is suitable for domestic fittings, statuettes and other forms of ornamentation The alabaster of the ancients was a harder mineral also used for ornamental purposes, a box of it being mentioned in Matthew xxvi It was a carbonate of lime and was found at Alabastron in Egypt

Alaric King of the Visigoths He became chief of the Visigoths in 376, and in He led his men through Italy to Rome, which he sacked in 410 He then marched south, but died suddenly in Sicily in 410

Alane II became king in 485 Alaric II became Ling in 485 He is known as the leader of the great host that was defeated by Clovis at Tours in 507. He was killed when

escaping from the fight

Ala Shan District in Asia It is in Mongolia and is part of the great Gobi desert. On its eastern border is the great mountain range called also Ala Shan.

This is 150 m long, and its highest point is over 11.000 ft high

Alaska Territory of the United States. In the north-west of North America, it covers 586,400 sq m and includes many islands along the coast of British Columbia including the Aleutian group It is a cold and mountainous region, the highest point being Mt McKinley, over 20,000 ft high The chief river is the Yukon Juneau is the capital The chief industries are salmon fishing and canning and the keeping and hunt-ing of animals for their fur Gold, coal and other minerals are worked, and some land is under crops Another industry is the breeding Large areas are covered with of reindeer trees The land has a railway system Alaska is governed by a governor and a legislative assembly In 1867 it was bought by the United States from Russia for 7,200,000 dollars, and in 1912 was made a territory After a long dispute the boundary between

Alaska and Canada was fixed by arbitration in 1903 This gave the fringe of islands south of Alaska to that country Pop 58,760

Watering place of Italy Alassio Genon and is much visited in the winter on account of its equable climate The bathing is good and around is some beautiful scenery Fishing is an industry Pop 6450

Garment worn by priests in the Roman Catholic Church Of white linen, it reaches to the foot and is rathered round the waist with a girdle Sometimes it is trimmed with pieces of embroider, called apparels. The clergy always wear it when celebrating Mass, and sometimes acolytes wear it too

Alban British saint and first British He was born at Verulamium and may have been a soldier All that is known for certain about him is that he became a Christian, was martyred about 304 and gave his name to S Albans, where the martyrdom probably took place His feast day is June 17, in the Church of England, and June 22 in the Roman Catholic Church

Dame Marie Canadian singer Her real name was Marie Louise Albanı Emma Ceclle Lajeunesse, and she was born in Quebec in 1851 She lived in Albany, whence she took her professional name, and whence she took her professional name, and then studied singing in Paris and Milan 'In 1870 she made her first public appearance In 1872 she appeared in London and for the next 40 years she was one of the leading sopranos of the world She retired in 1911, when she published Forty Years of Song In 1878 she married Ernest Gve, and in 1925 she was made a D B E She died April 3, 1930 In her honour Gounod composed Mors et Vita

Albania An independent republic of Europe In the Balkan area, 395 led them in their revolt against the Romans He conquered Greece, was declared King of the Goths, and then invaded Italy He led his men through Italy to Rome, which he sacked in 410 He then marched south, but died suddenly in Sicily in 410 chief occupation is the tending of cattle, sheep. and goats A few crops are grown, and there are extensive forests

Albania was for long part of Turkey. In 1913, after the first Balkan War, it was made an independent state, and in 1914 Prince William of Wied became its first ruler When the Great War began his government came to an end, and in 1917 Italy took possession of

Albania. This was not very acceptable, and in immense wings, often measuring 12 or 14 ft. Albania. This was not very acceptable, and in 1920 the Albanians set up a government of their own. A republic was constituted, and in 1928 the president Ahmed Boy Zogir, became king as Zogu I The country is governed by a council of ministers and a parliament of two houses Pop (1930) 1,003,068

Albany Old name for the part of Scotland north of the Forth and Clyde Later it was used for a smaller district which for a short time had kiligs of its own

for a short time had kings of its own

Albany New York State It is on the Hudson, 146 m. from New York city, on the main raily ay line to Ohicago and Montreal Here are the State capitol, the city hall, two cathedrals and many public buildings There are several manufactures and goods can be sent by the Erie and Champlain canals, as well as along the Hudson, or by rail, to all parts Founded by the Dutch, Albany was named after James II., the Duke of York and Albany, soon after it became British in 1664. In 1754 a convention, to arrange for a closer union

soon after it became British in 1864. In 1754 a convention, to arrange for a closer union among the American colonies, was held here and in 1797 it became the State capital Pop (1930) 127,412

Albany Town and pleasure resort in the south coast, on Princess Royal Harbour, King Geotige Sound It is 350 in from Perth, with which it is connected by rallway, and mail

boats call here Pop 4000.

Albahy is also the name of a river in Ontario and a province in S Africa The former is about 600 m long. It rises in Lake S Joseph atid falls into James Bay where Fort Albany has been built The province is in the southeast of the Cape Province Here, in 1820, the first large body of British settlers made their homes

Grahamstown is the capital. homes Grahamstown is the capital.

Albany Count of Title assumed by Title assumed by Edward, during the later part of his life wife, Louisa the daughter of a German prince, was styled Countess of Albany She was born at Mons, Sept. 20, 1752, and married the Prince in 1772 In 1784 they separated and the Countess joined the poet, Afferi, with whom she lived for a time Her later days were passed in Florence where she died, Jan. 29 1824

Albany Duke of Scottish title In 1398, and again in 1480 it was given to a son of the king Later Lord Darnley was wa son or the king Later Lord Darnley was made Duké of Albany and this tille bassed to his son James I and then to other Kings of Great Britain In the time of the Georges there were three Dukes of Albany, all of whom died without children

died without children
In 1881 Leopold, the youngest son of Queen
Victoria was created Duke of Albany He
vas born at Buckingham Palace, April 7,
1853, went to Oxford, and alterwards owlig
to his delicate health, lived very quietly On
March 28, 1884, he died at Cannes In 1882
he had martied Helena a German princess,
brd they had two children. The daughter he had marfied Helena a German princess, and they had two children. The daughter, Alice, married Prince Alexander of Teck, afterwards Earl of Athlone The son Leopold became Duke of Albany and then Duke of Saxe-Coburg in succession to his uncle As a German prince he fought in the World War and in 1919 his British title was taken from him His mother the widowed Duchess lived in England until her death, Sept 1, 1922.

Albatross Large sea bird It is found in the southern hemisphere where it follows ships for great distances Its

from tlp to tip, give it a great power of flight. The bird is only found on land in the breeding sedson, when it resorts to the islands and rocks of the southern part of the Pacific Ocean

Albemarle Duke of English soldier Great Potheridge in Devonshire, Dec 6, 1608 Ho became a soldier, and for nine years fought in the Dutch army In 1842 he served Charles I. in Ireland, was made a prisoner in 1644, and on his release in 1646 joined the parliamentarian side He helped to win the Battle of Dunbar

In 1053 Monk was appointed a general at sea and won a victory over the Dutch In 1654 he was made governor of Scotland and he was there when Cromwell died in 1858 After some delay he led his 6000 men across the border and entered London He brought back the expelled members of the Long Parliament and declared for the restoration of Charles II, his services being rewarded with the dukedom of Albemarie

In 1665 he was made Governor of London and in 1666 he went to see again. He was defeated by the Dutch in one battle, but was more suc-cessful in a second one. He dled Jan 3, 1670, and his dukedom became extinct when his son Christopher died in 1688

Albemarle Earl of English title held by the family of Keppel It is taken from the French town Aumale, and is taken from the French town Aumaie, and in early days there were several Earls of Aumale, or Albemarle In 1697 William III gave the title to his friend, Arnold Joust van Keppel, who had come over with him from Holland and his descendants still hold it. The family seat is Quidenham Hall, Norfolk, and the Earl's eldest son is Viscount Bury

and the Earl's eldest son is Viscount Bury Alberoni Giulio Spanish statesman near Placenza in Italy, May 21, 1864, ho be came a priest and acted as secretary to a French nobleman in 1713 he was sent to Madrid as agent for the Duke of Parma and in 1714 the King (Philip V), attracted by his abilities, made him his chief minister. He filled the position for six years during which he improved the condition of Spain, both in a commercial and a military direction His foreign policy, however, was somewhat aggressive and he made many enemies abroad, the result was that in 1720 he was banished He died June 16, 1752

Albert Town of France It was formerly known as Ancre, on which river it stands. It lies about 18 miles from Amlens The chief building is the church of Notro Dame. On this was a figure of the Virgin and Child, which was damaged early in the Great War and until March, 1918, when the first war in a hancing position, and it fell, remained in a hanging position, an object of great interest. The town has some The town has some manufactures

There was constant fighting around Albert during the Great War The Germans often shelled it, but did not capture it until March 27 1918 It was recovered in the following August A battle fought between the French and the Gormans, Sept. 20 30, 1914, just after the end of the battle of the Aisne, is called the battle of Albert.

Albert King of the Belgians. Born in Brussels, April 8, 1875, he was the second son of Philip, Count of Flanders, and a nephew of King Leopold II He became king in Dec 1909 In 1914 his country became involved in war with Germany and was soon

overrun The king moved the seat of government to Le Havre and after four years of war Albert or Albert Nyanza ment to be Havre and after four years of warfare had the satisfaction of recovering his land
and re-entering his capital in Nov 1918. In
1900 Albert married Elizabeth, a Princess of
Bavaria In 1934 he died as a result of a
mountaineering accident, and was succeeded by
his elder son as Leopold III

Albert Prince Consort and husband of Queen Victoria He was born August 26, 1819, the younger son of Ernest, Duke of Saxe Coburg Gotha, his full name Francis Charles Augustus Albert Emanuel Ho was well educated and had cultured tastes He married Queen Victoria February 10, 1840, and was given the title of Prince Consort in 1857. Typhoid fever caused his death, December 14, 1861, at Windows Coatte. Windsor Castle

The Prince had a wide knowledge of European politics and was the Queen's most valued adviser His position was a very difficult one, but in spite of a somewhat narrow outlook, he made no conspicuous inistakes, while exercising his influence in the direction of peace and moderation His Life was written by Sir Theodore Martin and in 1932 a new Life by Hector Bolitho appeared
The Albert Mamorial

Kensington Gardens, London, in memory of the Prince Consort In the Gothic style it was designed by Sir Gilbert Scott, and includes in its embellishment many sculptures and statuettes by eminent artists It was un-veiled on March 9, 1876 erected

Opposite the memorial is the Albert Hall, one of the largest halls in London. It was finished in 1871 and holds 10,000 people It is used for public meetings, concerts, boxing matches, etc., and has a magnificent organ

Alberta Province of the Dominion of Canada It stretches from the North-West Territories to the United States frontier with British Columbia on the west and Saskatchewan on the cast. It is mainly flat, except in the south-west where are the Rocky Mts, and is one of the prairie provinces Its area is 255,285 sq m., of which 2300 consist of water, and it is 760 miles from

Edmonton is the capital The six other cities are Calgary, Lethbridge, Wetaskiwin, Red Deer, Medicine Hat and Drumheller The province produces great quantities of wheat and livestock There are large supplies of coal and natural gas and immense areas

Alberta was made a province in 1905 is governed by an elected legislature of one house and a council, or cabinet, responsible The lieutenant-governor represents the to it. The neutenant-governor represents the King It sends six senators and 16 roprosentatives to the Parliament of the Dominion Its forests and other natural resources were the property of the Dominion until handed over to Alberta in 1930 The province has a university founded in 1908 and situated at Edmonton Pop (1931) 727,497 Sec CANADA.

Albert Medal British decoration Instituted in 1866, it consists of an oval badge, hanging from a crimson and white ribbon. It was originally a reward for bravery in saving life at sea, but since 1877 has been conferred for similar deeds on land There is also an Albert Medal. awarded by the Society of Arts, for notable achievements in science and invention.

Lake of Africa It is partly in Uganda and partly in the Belgian Congo and covers 1650 sq m Its length is 100 m, and it is 80 m north-east of the Victoria Nyanza The Nile flows through the lake, which was discovered in 1862

Albertus Magnus Medieval philoborn in Swabia in 1206 and studied at Padua He joined the Dominican Order and in 1254 was made head of the order in Germany and in 1260 Bishop of Regensburg. In 1262 he settled in Cologne and there he lived until his death in 1280

Called the Universal Doctor, Albert was one of the greatest scholars of the Middle Ages He was a follower of Aristotle and the extent of his learning won for him the reputation of a magician 21 volumes of his works 21 volumes of his works navo been published Among his pupils was Thomas Aquinas In 1622 he was beatified and his festival is Nov 15

Albertville Town of the Belgian Congo It stands on the western side of Lake Tanganvika and has a rallway station It is an important point on some of the African trade routes

Albigenses Religious sect It first appeared in France about 1180 and took its name from Albi, a little town 44 m from Toulouse. The members had a inystical and ascetic creed which was brought to France from the east of Europe The bolieved that matter was wholly evil and that only by rigorous self-denial could mon reach a good life. They denied that Jesus Christ had ever had a material existence, and strongly opposed the whole teaching of the Church of Rome.

The Albigenses increased rapidly in number in Aquitaine and soon attracted the notice of the ecclesiastical authorities. In 1209 Pope Innocent III decided on stern measures A crusade was preached and Simon de Montfort was sent to carry it out For some 30 years the crusade, which had a political side, was vigorously pursued Help was given by the Inquisition and the sect was gradually reduced in strength. In 1245 its headquarters, Mont Ségur, was captured

Term applied to human beings Albino and animals lacking the natural pigment of the skin, hair and eves Originally pigment of the sain, hair and eves Originary used by the Portuguese to describe white negroes found in Africa, it is now applied generally. In human beings albinism is evidenced by whitish hair, transparency of skin, and pinkish appearance of the eyes Albinos can generally see best in semi-darkness. Definite albinism is sometimes found in birds, and some breed of rabbits have this peculiarity Many oreatures show a partial albinism in winter as a natural device to produce protective colouring.

OldAlbion Old name for Britain The usual explanation is that the Romans used it for the island when they saw the white cliffs of Dover, albus being the Latin for white

Albion Metal Combination of tin and ployed with great facility in the workshop, ployed with great facility in the motion, and is consequently a valuable material for the production of small ornamental articles, toys and fanov goods, and the cheaper forms of jewellery The two basis metals are companies.

bined under great mechanical pressure, and the product is distinct from the alloy formed by the fusion of tin and lead, which is known ALBITE

by the rusion of tin and lead, which is known in as powter Albite word albus, white is a soda in felspar and consists of soda, alumina and solica, which form transparent crystals It is found in rocks nearly all over the world in found in rocks nearly all over the world in found in rocks nearly sall over the world in a feath of the Peninsular its name to a great of Badajoz and gave its name to a great of Badajoz and gave war a French army under Soult was advanted war a French army under Soult was advanted by the Peninsular in the Misdes and met the French and heavy losses being and met the French fight and heavy losses in 1811 After a hard fight and heavy losses in 1811 After a hard fight gained the day no both sides, the British gained the All his History of the Peninsular War and in the Middlesex Regiment gained the nickname it the Middlesex Regiment gained the assential

of Die Hards

Albumin

Carbon compound

is a nitrogenous substance, soluble in water

is a nitrogenous substance, soluble in water

in living bodies

rotein It was long believed that albumin in living bodies

rotein It was long believed that albumin a could not be made synthetically, but in 1932 in form coal and coke The allied word albumen it from coal and coke The allied word albumen is used for the white of the egg

is used for the solubling albumins

is used for the Substances resombling albumins are known as albuminoids

Albuminuita, or the egg

is albuminoids

Albuminuita, or the egg

is albuminoids

Bubstances resembling albumins are known as albuminoids Albuminuria, or the presence of albumin in the urine, is a sign of kidney, bear and blood disposes.

heart and blood diseases Affonso administrator Albuquerque gueso administrator He was born near Lisbon in 1453 Little is known of him until 1503 when he sailed to the Indies Made viceroy of the Portuguese Indies Made viceroy of the Portuguese Indies had been nearestons there, he conquered Goa and other nearestons there, he conquered Goa and other heart and blood diseases Indies Made viceroy of the Portuguese possessions there, he conquered Gos and other places and showed himself a wise and equitable in 1515 he was deprived of his office ruler in 1516 he years to Europe, Dec and he died on the journey to Europe, 16, 1515 peen translated into English

and he died on the journey commentaries nave his 16, 1515 Albuduerque's Commentaries nave his 16, 1515 Albuduerque's Commentaries nave his 16, 1515 Albury London, can be reached from beauty London, can be Riy There is Chilworth, on the Southern by the banker on old church and one bulk by the banker is no old church and one bulk by the banker in the former is used as a mortuary chapel and The former is used as a mortuary chapel faith The former is used as a mortuary chapel of the Duke of Northumberland Near is the Drummond lived at Albury Park, now a scath of the Duke of Northumberland Near is the Silent Pool (Sherbourn Pond) South Wales It Silent Pool (Sherbourn Pond) South Wales daey is 300 m by railway from which is and stands on the Murray River, which is and stands on the Murray River, which is not stands on the Murray River, which is not stands on the stands on the fact of the point it is the centre of a navigable to this point it is the can be a large dam in the stands on the sheep are reared and vicas in the sheep are reared and vicas in

The title of Baron Alcester was taken by Sir The title of Baron Alcester was taken by Sir Frederick Beauchamp Paget Seymour when, in 1882, he was made a peer He was commander of the ficet that bombarded Alexandria in that year He died March 30, 1895, leaving no help

Alcestis wife of Admetus who was the promised immortality if he could get someone to die in his stead His parents refused to de this, but Alcestis offered herself Euripides wrote a play Alcestis no heir

wrote a play Alcests form of chemistry, Early form of maric Alchemy associated with maric probably with the Eryptians originated most probably with the Eryptians and was concerned chiefly with the baser and was could be transmuted into gold or mutation of metals could be transmuted into gold or sallyer arose quite early and was held, Hermes others, by the Egyptian alchemist. Hermes others, who wrote on the matter of transmutation was effected, so it was believed, by the philosopher's stone, called by Hermes an egg Wrote a play Alcestis

by the philosopher's stone, tands
an egg Chaldcans associated the metals with the planets, there being seven of each, and believed that each planet exercised an influence on its that each planet exercised an influence on its particular metal. The Grocks studied thenemy particular metal of the elements, but the art owes more perhaps to the elements, but the art owes more perhaps to the Arabs, who learned a good deal about the when they conquered Egypt and invaded the treasured learning of Alexandria them.

The Arab alchemists carried them much the Europe where the subject was much the Europe where the subject both by them

The Arab aichemists carried their knowledge into Europe where the subject was much studied during the Middle Ages both by them and by the English, French, Dutch and other nations

and by the English, French, Dutch and other nations

Among the medieval alchemists were Roger, Albertus Magnus and Thomas Aquite a Bacon, Albertus Magnus and Thomas Aquite a literabut the subject with seeking tree up on the subject with seeking tree up or themselves with seeking to create living beings, while a that they are alchemist and it in the lefth and lixir of life, which was the philosopher's stone dissolved in alcoholism in the 16th and 17th centuries the alchemists of the became more akin to the chemists of Edward The alchemists of this time included Edward Melley, James Price, called the last of the century, James Price, called the last of the contury, James Price, called the science of alchemists, professed but he committed such alchemists, professed but he committed such alchemists, professed the experiment. Before alchemists, professed the experiment. Before had founded the Science of chemistry and the death, however, and Athenian statesman He and Alcibiades

Alcibiades

Alcibiades

Athenian statesman He
Athenian about 450, eduvas born about 450, eduvas born about 420, ensured His abilities
and about 422 le
Athenian about 422 le
and about 422 le
Athenian about 450, ensured head 400 le
Athenian about 450, eduvas born about 450, eduvas bor

Albury is 300 m by railway from Schung, and stands on the Murray River, which is navigable to this point. It is the centre of a navigable to this point. It is the centre of a navigable to this point. Near is a large dam district in which sheep. Near is a large of a navigable to this point. Near is a large of the age of alchemy was over and to have a few and subnece are grown. Near is a large of the age of alchemy. Althonian shout 450, education which sheep are reared and vheat and should be an ere reared and vheat an

As leader of the Athenian army he won several battles over the Spartans and was for a short time the chief figure in the city The failure of a further expedition however led to his downfall and once again he was exiled (406) He went towards Persia, but on his way, at Phrygia he was killed by some Spartans His Life was written by Plutarch

Alcinous Greek hero He appears in Homer's Odvssey where he was a king in Scherla probably Corfu On this island Odvsseus and his companions were shipwrecked and were entertained

hospitably by its king

Alcohol Name used for the liquid, ethyl alcohol (C. H. OH) It is obtained by distilling a saccharine liquid, but it can be obtained synthetically from its elements, carbon, hydrogen and oxygen It is the active principle of all intoxicating liquors

Absolute alcohol is a colourless liquid with specific gravity 79 and a boiling point of 78°C It is the essential part of all spirits, while beer and wines also contain it, although in smaller proportions The amount may be as low as 2 per cent in very light beer, or as high as 70 per cent. In a powerful liqueur Proof spirit contains 43 per cent alcohol The system of testing the strength of alcohol in a lique is collected as the strength of alcohol in a liquor is called alcoholometry.

Alcohol is used in the manufacture chloroform, ether, essences, perfumes, lotions and the like and as a solvent for oils, tats, resins and gums. It is also used as a solvent of the form of the like and as a solvent of the form of the lot of the source of power, in the form of methylated spirit. It can be made from potatoes, wheat, malt, rice, bectroot, molasses, honey, apples and many other sugar containing foods A variety called methyl alcohol is distilled from wood and is much used commercially.

The drinking of alcohol to excess brings about a condition known as alcoholism. It produces stupor or excitement, followed after a time by injury to the liver and other organs In extreme cases insanity results, while the impairment of will power and brain activity

is a usual symptom

Alcott Louisa May American writer She was born at Germantown, Pennsylvania, Nov 29, 1832 She was for During the Civil War she served as a nurse, and wrote about her work in Hospital Skelches Her other books, especially Little Women, Little Men, Good Wires and Jo's Boys are still very popular with children She died at Boston, March 6, 1888

Alcyone In Greek legend the daughter of Acolus, god of the winds She and her husband were changed by Zeus into scabirds Legend says that for seven days in winter Alevone hovered over the sea During these days her father prevented the wind from blowing, and so they were called haleyon, or peaceful days.

Aldeburgh Borough and watering place on the coast of Suffolk, sometimes called Aldburgh It is 25 m from Ispwich and 99 from London, on the Length Researce aching In the Middle Aldburgh The sea is encroaching In the Middle Ages Aldeburgh was an important place The poet Crabbe was born here Pop (1031) 2480

separation of two hydrogen atoms, and intermediate between alcohols and acids further oxidation the aldehydes are converted readily into acids, thus acetaldehyde, a colour-less liquid formed from ethyl alcohol, may be oxidised into acctic acid, and the well-known formaldehyde, a gas soluble in water and derived from methyl alcohol, yields formic acid

Aldenham Village of Hertfordshire It the LMS Riv The place is best known for its public school This was founded in 1597 and has about 250 boys

In 1896 Henry Hucks Gibbs, a London merchant, was created Baron Aldenham He died in 1907, when his son a former MP. for the city of London, became the 2nd baron

Small tree that grows freely in damp places in Great Britain and elsewhere in Europe, as well as in Asia and America It is found chiefly by the sides of streams and brooks. The tree is usually 30 or 40 ft high It bears rough oval leaves and two kinds of catkins in which are tho male and female flowers. The bark is service-able for tanning and the young shoots for

dycing

The alder belongs to the genus alnus The tree seen in Great Britain is alnus glutinosa, the black, or common, alder Others are alnus incana, which grows very freely on the continent of Europe, alnus cordifolia and the green alder (alnus rividis) found in Central

America.

Alderley Edge Urban district of Cheshire, 14 m from Manchester, on the LMS Rlv. It is chiefly a residential district. The edge is a ridge of hills about 650 ft. high Pop (1931) 3141

Alderman Member of a town or county council in England and Ireland. The word is also used in Canada and the United States Town and county councils consist of aldermen and councillors, the aldermen being chosen by the councillors for six years. The aldermen of the City of London are elected for life and from them the lord mayor is chosen. In Scotland the bailies take the place of aldermen Aldermen or caldormen, are first heard of in Anglo-Saxon times, when they looked after a part of the Lingdom The present system was introduced in 1835

Alderney One of the Channel Islands It is only 8 m from Cape La Hague, being divided from it by the channel called the Race of Alderney It is 4 m long and covers 3 sq m St. Anne is the capital and the only town The island is famous for its bread of small cettle. its breed of small cattle

Aldershot Borough of Hampshire, 34 m from London on the Southern Railway The town is the centro of the chief military camp in England The buildings and the industries are all connected with the military and its wants The former include barracks, hospitals schools, workshops etc. The camp is divided into three sections called the Wellington Marlborough and Stanhone lines, there is accommodation for Stanhope lines, there is accommodation for infantry, cavalry and artillery, while the training grounds cover 70 sq miles Tho Aldehydes Term derived from allication of the primary alcohols with the

Aldwick the coast about a mile to the west of Bognor Here is Craigwell House, where King George V went to recuperate after his illness of 1928 29

Aldwych Street in London This name is taken from that of a Danish settlement It is a curve meeting the Strand at both ends, with Kingsway running from it to Holborn It was opened in 1905 The Aldwych Club, at 18 Exeter Street, London WC is for advertising and business men generally It was founded in 1911

Alekhine Alexander champion Russian chess He was born in Moscow, Nov 1, 1892, educated at Leningrad, took his degree in law and entered the foreign office As a chess player he became known in 1909, while still a youth, and his reputation grew until in 1927, by beating Capablanca, he became the world champion He held the title until 1935, whon he was defeated by Dr Max Enwe feated by Dr Max Enwe

Alembert Jean le Rond d' French philosopher He was born Nov 16, 1717 and received a good education, later showing himself a brilliant mathematician and writing several mathematical books of high value He is better known perhaps for his association with Diderot in the preparation of the Encyclopedie He also wrote on literature, music, philosophy and other subjects He received many honours and was on friendly terms with Frederick the Great and Voltaire In 1772 he was made secretary of the French Academy and he died Oct 29, 1783

Academy and he died Oct 29, 1783

Alencon Town of France It stands on the river Sarthe, 67 m from Caen The town gives its name to a kind of Ince The Counts of Alencon were prominent among the nobles of France in the Middle Ages and the title of Duke of Alencon was borne by several members of the royal family Pop 17 400

Aleppo City of Syria, called by the Aleppo City of Syria, called by the a valley through which the river Kuwaik flows and is a station on the railway line from Adana to Damascus In the Middle Ages it was an important trading centre, being on the main trade route between Europe and Asia To-day it has a considerable trade in silk, tobacco, etc., which goes mainly through silk, tobacco, etc, which goes mainly through its port Alexandretta, 70 m away There are large Greek and Armenian elements in the population Aleppo was occupied by the British in Oct 1918 Pop 177,313

Aleutian Islands Group of islands of Alaska belong ing to the United States They are very bare and rocky and there are many volcanoes. Unimak is the largest island The men are engaged chiefly in fishing The Island of Unalaska, with a good harbour, is the centre of the American seal fisheries

In 1928 an expedition found on one of the islands some bodies in a perfect state of prescription. They are thought to belong to the stone age Pop 2000

Alexander Name of eight popes, of was Alexander VI Alexander I was pope, or bishop, of Rome 107 to 116 Alexander II, one of Hildebrand's nominees, was pope 1061 to 1073 Alexander III was pope 1159 to 1181 He was the pope who made Henry II do penance for the murder of Becket in 1170

Village of Sussex It is on the coast about a mile to the Hero is Craigwell House, repe V went to recuperate after 10 Alexander VIII was pope 1655 67 and Alexander VIII 1689 to 1691

ALEXANDER VI Pope from 1492 to 1503 Rodrigo Borgia was born near Valencia in Spain, Jan 1, 1431 He became a priest and when his uncle Alphonse de Borgia, was made pope in 1465, his rise was rapid Chosen Archbishop of Valencia and soon made a cardinal, he passed his time in luxury and intrigue, chiefly in Rome, until elected pope in 1492. The eleven years of his rule were devoted to the amassing of wealth and power He scored a victory over Charles VIII of France and helped to bring Savonarola to his martyred end. The pope died Aug 18, 1503 See Borgia.

Alexander King of Macedon, called the Great A son of King Philip II and his wife Olympias, he was born at Pella in 356 B c, and in 336 succeeded the murdered Philip as king His first work, quickly accomplished, was to deal with rebellons among the Greeks and others under his rule, after which he started out on a career of conquest that has few if any precibles in the conquest that has few if any parallels in the world's history

Taking up a project entertained by his father, Alexander decided to attack the huge Persian Empire, marched in 334 into Asia Minor and quickly mastered the cities in that country He then conquered with comparative case Phoenicia and Syria, although he met with serious resistance at Tyre This, however, by the aid of a fleet, he overcame and the city

was destroyed

Alexander went next to Egypt which submitted to him without a struggle Having founded the city of Alexandria, he set out upon a further career of victory He passed through Syria into Persia and marched up the valley of the Tigris, through the country known as Mesopotamia He captured Susa, Persepolis, Echatana and other Persian cities with their treasures and advanced to the Caspian Sea. The barbarian tribes dwelling on the coast of this sea were brought in a sense under his rule. The new empire was organised into provinces, each keeping its own traditions and institutions. About this time he crushed

and institutions. About this time he crushed a rising led by Bessus, the successor of Darlus He next entered India In 326 he crossed the Indus near Attock and gained a great victory After some further conquest he returned through Baluchistan to Persepolis, then set himself to organise the great empire he had conquered In the midst of this work and while planning an expedition into Archie and while planning an expedition into Arabia,

on June 29, 323, he died Alexander was a great administrator as well as a great soldier, and spread the influence of Groece throughout the empire he had wonbut his time was too brief to weld it together, and on his death it fell rapidly to pieces

Alexander Name of three Tsars of Russia Alexander I was born Dec 23, 1777, a son of Paul I He became tsar in 1801 and reigned until 1825 The earlier part of his reign was occupied with wars against France, interrupted by the peace he made with Napoleon in 1807 He took a leading part in the peace negotiations of 1814 15, and was prominent as the author of the Holy Alliance, an association of rulers the Holy Alliance, an association of rulers pledged to govern on Christian principles In his own country Alexander put his liberal ideas into operation, one result being the Dec 1, 1825,

Alexander II Son of Nicholas I, he was born April 29, 1818, In 1855 he succeeded to the throne Like his uncle, Alexander I, to the throne he had liberal ideas, but circumstances made it difficult for him to give them expression, and his reign did not differ much from the repressive rule of his father It was marked by the end of the Crimean War, the war with Turkey, and the Treaty of Berlin, the activities of the Nihilists and the advance of Russia The Tsar was murdered. March into Asía 13, 1881.

Alexander III A son of Alexander II, he was born March 10, 1845, became tsar on his father's murder in 1881, and ruled for 13 years He made no serious change in the methods of government, which remained harsh He died Nov 1, 1894 The tsar married a daughter of Christian IX of Denmark, and true therefore herether in law of Oraco. and was therefore a brother in-law of Oueen Alexandra.

Alexander King of Greece The second Son of King Constantine, he was born Aug 1, 1893, his mother being a sister of the Kaiser When his father abdicated in 1917 the Powers refused to allow his eldest son, George, to become king so the crown was given to Alexander He reigned until his death, due to the bite of a pet monkey, Oct 25, 1920

Alexander Three kings of Scotland Alexander I, king from 1107 to his death, April 27, 1124, was almost an Englishman His father was King Malcolm Canmore, but his mother was an English princess, and he married an English lady, a natural daughter of Henry II Alexander Was an experience of the control of the a natural daughter of Henry II Alexander II. a son of William the Lion, was king from 1214 to July 8, 1249, when he died He married a daughter of King John, and was as much an English baron and landholder as a Scottish king Alexander III was a son of Alexander II He became king in 1249 when only eight years old In 1251 he married Marraret daughter of Henry III. On Morreh Margaret, daughter of Henry III On March 12, 1286, when riding along the cliffs near Kinghorn, Fifeshire, he and his horse fell over the cliff and were killed

Alexander King of Serbia. He was Milan, and became king when his father abdicated in 1889 In 1893 he began to rule in person In 1993 he married Draga Mashin, aledy of the court and acid biractic distance. a lady of the court, and made himself a dictator The result was a revolution, and on June 11, 1903, the king and his wife were killed

Alexander King of Yugo-Slavia Born Dec 17, 1888, he was a son of King Peter of Serbia. In 1909, his claim, he became heir apparent. He served with the army in 1912-13 against the Turks and also in the Great War In Aug, 1921, he became king of the new state of Yugo-Slavia, an enlargement of Serbia, and in 1922 he married a princess of Rumania A son he married a princess of Rumania A son, Peter, was born in 1923 In 1928 Alexander made himself dictator, but constitutional government was restored in 1931 He was assassinated on Oct 9, 1934

Alexander Prince of Bulgaria He belonged to the family that rulod over Hesse and was born April 5, 1857 He served in the Russian Army against the Turks in 1877 and in 1879 Russian influence secured for him the position of first Prince of

grant of a constitution to Poland He died Bulgaria He enlarged the area of the country and was successful in a war with the Serbians, but offended his Russian supporters. In 1886 he abdicated, and as Count Hartenau lived in retirement until his death, Nov 17, 1893

Alexander Albert Victor. British polyalization. Born at Weston-

super-Mare, May 1, 1885, he became associated with the Co-operative movement. He served with the forces during the World War and in 1920 was appointed secretary to the parliamentary committee of the Co-operative Congress In 1922 he was elected M.P for the Hillsborough Division of Sheffield, in 1924 he became parliamentary secretary to the Board of Congress In 1990 First Lord Action Land Land parliamentary secretary to the Board of Trade, and in 1929 First Lord of the Admiralty. He resigned in August, 1931, and lost his seat in Parliament in the following October, but was again returned at the General Election of

Alexander Sir George English actor. He was born at Reading, June 19, 1858 In 1880 he joined Irving, in whose companies he played for the next eight English actor the Avenue, but in 1891 he moved to the S James's, where he remained until his death March 16, 1918 In 1911 he was made a knight.

Sir George was most successful in comedies of modern society, in which he took the part of a suave man of the world. This was seen when he played in such pleces as Lady Winder-mere's I'an, His House in Order and The Second Mrs Tanqueray

Alexander Nevski Russian saint. in 1220 and became a famous soldier In 1240 he defeated the Swedes on the banks of the

Neva, and was afterwards known as Nevski. He won his reputation as a saint by his charities He died, Nov 14, 1263.

Alexander Severus peror. He was born in 205 and was adopted by a cousin, the Emperor Heliogabalus. In 222 he became amports and conducted spacessfully a way emperor and conducted successfully a against Persia, but was murdered in 235

Alexandra Queen of Edward VII.
Alexandra She was born at Copenhagen, Dec 1, 1844, a daughter of the prince who, in 1863, became Christian IX, King of Denmark Brought up very simply, as her parents were very poor for their station, the princess was betterlied in Sept. 1862. the princess was betrothed in Sept. 1862, to the Prince of Wales, whom she first met in 1861 On March 10, 1863, they were married in S George's Chapel, Windsor The beauty and charm of the princess made a great

impression on the people of England.
For 38 years Alexandra was Princess of Wales, for nine years she was Queen, and for the remaining 15 years of her life she war Queen Mother In each station she carried out her high duties to perfection. She had six children, four of whom survived, King George V and his three sisters, the Princess Royal, Princess Victoria and the Queen of Norway. Queen Alexandra's last days were mainly

passed in retirement at her London residence, Marlborough House, and there she died, Nov 20, 1925

Since 1912, June 26 has been kept \*s Alexandra Day to commemorate the day on which she landed in England in 1862 On this day roses are sold for the benefit of the hospitals

In 1932 the national memorial to the queen was unveiled in the garden of Mariborough

House It consists of the figures Faith, Hope and Charity, by Sir Alfred Gilbort, R.A. crop See Lucerne Altogether \$230,000 was raised, most of it being devoted to a pension fund for nurses Affieri Vittorio Italian poet Born at Asti. Jan 17, 1749. about 1772

Alexandretta Seaport of Syria, called also Ishanderun and Shanderon It stands on the gulf of Alexandretta, an opening of the Mediterranean Sea, 70 m from Aleppo, with which it is connected by railway It has a harbour and is the port for Aleppo Alexandretta was founded by Alexander the Great. It was occupied by the British in Nov, 1918 Pop 13,997 See Alexpro See ALEPPO

Alexandria City and scaport of Egypt It is situated between the sea and Lake Mareotis, and is connected by railway with Cairo and by canal with the Nile It was founded by Alexander the Great, and the native name for it is Iskanderia There are two harbours, an old one and a modern one The city is divided into three parts, the Mohammedan the European and the Arab Pompey's Pillar, dating from 302, is a landmark The port has a large trade in cotton

Alexandria was at one time the most famous city in the world It was noted especially city in the worm it was noted especially as a centre of learning and possessed the finest library in existence. In it the great mathe maticians, astronomers, theologians, philosophers and others settled and founded schools which exercised extraordinary influence period of its glory lasted for nearly a thousand years, from 332 B C to 641 Near Alexandria was the Pharos lighthouse, and in the city were was the Pharos lighthouse, and in the city were the two obelisks called Cleopatra's Needles, one now being in London and the other in New York. The ancient city was also a great centre of trade and, after its conquest by the Romans became their most important scaport. In 641 the city began to decline, a process hastened after 1517, when it was taken by the Turks. Its population once estimated at 750 000, fell to 6000. In the 19th century, however, it revived until it became again a great scaport. to 6000 in the 19th century, however, it revived until it became again a great scaport It was taken by Napoleon in 1798 and by the British in 1802 after Sir Ralph Abercromby had defeated the French in a battle hero In 1882, when Arabi Pasha rebelled, it was bombarded by a British fleet Pop 573,000

Alexandria Town of Dumbartonshire
3 m from Dumbarton, on the LMS and
LNE Rlys The town is a centre for the
printing bleaching and dyeing of textiles
Pop 7804

Alexandrite Name of a semi precious stone, a variety of chry soberyl It is dark green in colour, but gleams red in artificial light It is found in the Ural Mountains

Alexius Name of five Byzantine, or East Roman emperors. Alexius I, a member of the Comnenus family, was born in 1048 and became emperor in 1081, owing his elevation to a rising of the soldiers He reigned for 37 years, a period which covered the time of the first Crusade He died in 1118 The four other emperors of this name are unimportant

Alfalfa Species of medick (medicago plant of the pea family grown for green fodder, and also found wild in fields and hedgerows. It has clover like leaves, hollow branching stems and bears racemes of purple, or some times yellow flowers. It is cultivated largely

Alfieri Vittorio Italian poet Born at Asti, Jan 17, 1749, about 1772 he settled down to study at Turin Already he had written a drama, and during the rest of his life he produced a good deal of poetry which has a deserved place in the literature of Italy Alfieri is also known as the lover of the Countess of Albany, the wife of Charles Edward, the Young Pretender The two lived together from 1780 or thereabouts, until the poet's death at Florence, Oct 8, 1803

Alfred King of England, called the Great He was born at Wantage in 849, being a son of Ethelwulf, King of England He helped his brother, King Ethelred, England Ho helped his brother, King Ethelred, to fight the Danes, winning fame at Ashdown in 871 In the same year Ethelred died and Alfred was chosen king At first he was King of Wessex only, but afterwards the whole of England acknowledged him as its overlord

England acknowledged him as its overlord. The struggle with the Danes had intervals of peace which he used to organise the army and create something like a navy. In 878 there was a serious Danish attack. Alfred was forced to take refuge in Somerset, but he soon collected an army and won a battle at Edington. The result was a treaty with the Danish leader, Guthrum, which divided the country between them, Alfred received the south and west and was acknowledged by Guthrum as his lord. In 884 and 892 new bordes of the invaders arrived, but Alfred held. hordes of the invaders arrived but Alfred held his own He died Oct. 26 or 28, 901, and was burled at Winchester

The Alfred Jewel, now in the Ashmolean Museum at Oxford, bears a portrait of the king and the words "Alfred had me wrought" It was found at Athelney in 1693

Alfreton Urban district of Derbyshiro reached by the L M S Rly The chief industry is coal mining, but there are hoslery factorics here Pop (1931) 21,232

Alfriston villege of Sussex. It is 10 m from Eastbourne One of the most picturesque places in England, it possesses a large church called the Cathedral of the Downs, a clergy house owned by the National Trust, and the Star Inn dating from about 1500 Pop (1931) 590

Algae In botany a term used for the class of plants popularly known as seaweeds These have no vessels, no tissues and no organs other than those formed by the reproductive cells As they have no roots they absorb nutriment from the water or the air The Algae are divided, according to the colouring matter they contain, into green, brown red and blue green element. brown, red and blue green algae

Algebra Method used in mathematical calculations, in which quantities are represented by letters and their relations by signs, an algebraic formula for some rule being more convenient and more easily being more convenient and more easily remembered than the rule expressed in more extended form. To take a simple case, the area of a parallelogram is equal to the length of the base multiplied by the perpendicular height. In algebraic form it may be represented as, a-base b=height, and the area=c, then  $a \times b=c$ , or shortened to ab=c. The order of the area of addition, embirately approximation. dinary processes of addition subtraction, etc, can be performed by algebra, also the more complex mathematical problems are expressed and solved best in algebraic form

from Gibraltar and a little trade

In 1906 a conference of European Powers was held at Algeeiras to discuss the affairs of Morocco, and on April 7, a Convention was signed giving France a free hand to carry out certain reforms and restore law and order

Algeria Country of Africa, a dependency of France It covers \$47,500 eq m, and has a coastline on the Mediterranean Sea. The Atlas Mts, running parallel to the coast, divide the country into a fertile coastal region and a belt of desert Algiers is the capital, other towns are Oran, Constantine, Bona, Sidi-bel-Abbes, Philippeville, Mascara, Tlemcen and Setif

The chief industry is the growing of fruit, vegetables, wheat, barley, etc Wine is made and there is a good deal of mining, especially of iron ore The fisheries are valuable The country has a railway system and many ex-

cellent roads

Algeria is governed by a governor-general A large army, including the Foreign Legion, is maintained in Algeria The population is 6,553,451 (1931), of whom nearly 1,000,000 arc The natives are chiefly Arabs Europeans and Berbers

Seaport and chief town Algiers Algeria It consists of an old town where the arabs live and a modern one built by the French There are two harbours and an extensive trade is done with France and elsewhere The buildings include the Roman Catholic cathedral and several mosques, including the Grand Mosque It has a univer The city is fortified and is a station of the French Navy Algiers was long a centre of piracy, and on this account it was bombarded by a British Fleet in 1816 In 1830 it was taken by the French Pop (1931) 257,122

Algin Substance found on certain sea-weeds It resembles gelatin and dissolves in water, from it alginic acid is obtained It is prepared during the process of making iodine, is used as a thickening for soups and as a size to prepare walls for paint

Algoma District of Canada, now part of the Province of Ontario It is about 70,000 sq m in area, and lies to the north of Lakes Superior and Huron Sudbury is the chief town Silver, nickel, and copper are mined and there are vast foresta

Algonkin Name given to a group of American Indian tribes It Ιt included the Blackfeet, Mohicans, Shawnees and others who lived in Canada and the northern parts of the United States In both countries there are some thousands of them to-day The word means, "at the fish spearing place"

The term Algonkian is applied to certain rocks found in North America They are of sedimentary origin, such as sandstone and limestone and are seen in the neighbourhood of Lake Superior, where they are rich in coal and copper See AMERICAN INDIANE

Algeciras Scaport of Spain It is on two greatest courts are the Court of the Lions from Gibraltar There is a harbour, fishing, are decorated with sculptures, columns carvings, etc., of the most exquisite kind

Alias Word meaning an assumed or false it is quite legitimate to take another name, as writers sometimes do, but it is often done by criminals and others to hide their identity Such when charged are described as A alias B

Alibi Term used in English law It describes a plea put forward by an accused person that he or she was somewhere else when the offence took place This form of defence, however, is easily abused and is therefore regarded with suspicion

Alicante City, seaport and watering place of Spain It is situated on the Mediterranean There is a good harbour and a trade in wine and fruit. The place is visited in winter on account of its pleasing climate Pop (1931) 73,987

Alice Springs Town of Australia, of the territory of Central Australia It is 1120 m from Adelaide on the railway line to Darwin.

Alien Anvone not a subject of the country in which he lives Each country has its own laws on this subject and in all it is possible for an alien to become naturalised, and therefore no longer an alien In English law a person born outside the Empire is an alien unless he or she is the child of British subjects, or the grandchild of such on the father s side. Since 1870 it has been lawful for an allen to own property in Great Britain, but he cannot vote at elections, nor can he hold a public position.

The entry of allens is regulated by law in almost all countries, in the United States the quota system each year is in force Other countries apply an educational, or a means test, while in some cases immigration especially of coloured men and women, is forbidden

Into England until 1905 aliens were freely admitted, but in 1905 a law placed certain checks on their entrance. The authorities can now refuse admission to diseased, criminal, lunatic and pauper aliens Aliens convicted of crime can be sent back to their own countries Aliens refused admission can appeal against the decision, and are entitled to entry if they can prove that they are escaping from religious or political persecution During the Great War the position of alien enemies, e.g., Germans and Austrians, created considerable difficulties Many of the males were interned, and after the war were sent abroad

The admission of aliens into Great Britain to-day is regulated by the Alien Order of 1920 Resident aliens must be registered The controlling authority is a branch of the Home Office which has inspectors at the ports Alienism Medical term denoting the study and treatment of mental diseases Alienation is a general term for the various forms of insanity and mental derange-ment An alienist is the name for a physician who specialises in their treatment

Alhambra Palace in Spain It stands on the hills overlooking Granada, and was built by the Moors in the 13th and 14th centuries It was a fortress and also a palace, and is the most striking example of Moorish architecture in the world It is entered by the Gate of Justice and its

Alington Cyril Argentine Dean of Durham The son of a clergy man, he was born in 1872 and educated at Marlborough and Trinity College, Oxford, where he won a fellowship at All Soul's College He became a schoolmaster and was ordained Having been a master at Marlborough and Eton, he was head of Shrewsbury from 1908 to 1916 In 1916 he was chosen headmaster of Eton, and in 1933 became Dean of Durham He has written a detective story, Mr Erans, as well as Eion Fables 1921, Doubls and Difficulties, 1929, and other books

Aliwal Name of two places in South Africa Aliwal North is in the Orange River in the Cape Province It is on the railway from East London, 280 miles away There is a park and a racecourse and

near are sulphur springs Pop 5500
Aliwal South is the old name of Mossel
Bay There is also a village of this name in
the Punjab district of India

Alkali Name given to a group of compounds, oxides or carbonates which are soluble in water and neutralise acids forming saits. They have a caustic taste and turn red littings blue. The common alkalis, ammonia, caustic soda, caustic potash, solium and potassium carbonates are of great commercial importance and are manu-factured on a very large scale. The term caustic alkali is applied to caustic potash and caustic soda, and mild or fixed alkali to the carbonates of soda and potash

Natural alkali deposits occur in many parts of the world, such as trona and natron (carbonates of soda) in California Brit Columbia and Lake Magadi in East Africa

Alkaloid Group of very complex basic nitrogenous substances form ing the active principles of plants They are extracted by percolation with alcohol, and are obtained in a crystalline form although a few occur as liquids Alkaloids act as bases like ammonia, forming saits with acids Some of them are extremely poisonous though of great medicinal value in proper doses Typical alkaloids used in medicine are atropine caffeine, cocaine, morphine, quinine and strychnine They are regarded as derivatives of pyridine bases which are present in coal tar and bone oil, and in recent years great pro-gress has been made in the synthetic production of alkaloids

Allah Name used by Mohammedans for the Supreme Being It was first used in this sense by Mahomet in the expression of his creed, 'There is only one God and Mahomet is his prophet"

Allahabad City of India, the capital of the United Provinces of Agra and Outh It stands where the Jumna falls into the Ganges, 505 m from Calcutta It is an important trading centre. The objects of interest include the fort with an under ground temple, the pillar of Asoka and the mausoleum of Khusru. The university, founded in 1887, has its headquarters here. To the Mohammedans Allahabad is a sacred city and a religious festival is held every year, when the pilerims bathe where the rivers unite. The Hindu name for it is Prazag There were serious riots in the city in April, 1932. Pop. (1931), 183,914

of the joint income, but it has a wide discretion in the matter. In Scots law alimony is called aliment

Alington

Cyril Argentine Dean of Durham The son of a clerry

Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of a clerry

Cyril Argentine Dean of Durham The son of Durham The So knighted and died Dec. 9, 1882

The Allan Line is now owned by the Canadian

Pacific Ocean Services, Ltd

Allegation In English law a statement which has not been proved in a court of law, but which its authors think is true By using the word alleged newspapers can avoid actions for libel when mentioning crimes

Alleghany River and mountain range of the United States The river rises in Pennsylvania and flows through the state of New York before it returns into Pennsylvania and passes Pittsburg Later it unites with the Monongahela to form the Ohio It is 300 m long Alleghany is also the name of a suburb of Pittsburg The Alleghany Mts are a part of the Appalachian range (q v)

Allen Bog and lake in Ireland In the counties of Loix, Ossory, Kildare and Westmeath the bog covers about 400 sq m with patches of fertile land here and there The surface is peat which has a depth on the average of about 25 ft.

Lough Allen is one of the lakes formed by the Shannon It is 5 m long and covers about 15 sq m in the countles of Roscommon and Loitrim

Allen Grant English novelist. Charles of a clergyman, was born at Kingston Ontario, Feb 24, 1848, and educated at King Edward's School, Birmingham, and at Oxford, Merton College For Four Pears he was been described. College For four years he was head of a college in Jamaica, but he spent the rest of his life in hapfand Ho died out 24, 1899 Grant Allen wrote readable books on scientific matters matters in these he popularised Darwin's ideas His novels include The Woman Who Dul

An African Millionaire
Allon William. English An African Millionaire
Allen William. English cardinal. He was born at Rossali in 1532, and educated at Oriel College, Oxford He was made head of S Mary Hall, Oxford, but after Elizabeth became queen he went to France There he helped to establish the college at Doual and began the translation that is called the Doual Bible The main work of his life was to help Philip of Spain, the Pope, Mary, Queen of Scots, and others in their schemes against England In 1587 he was made a cardinal and he died Oct. 18, 1594

Allenby Viscount. British soldier Edmund Henry Hymman Allenby was born April 23, 1861, was educated at Helleybury and Sandhurst, and entered the arm as a cavalry officer in 1879. He saw service in South Africa. 1834 85 and 1888, and also in the war against the Boers. In 1802 he became colonel of a cavalry regiment, and having had charge of a hirado was in and having had charge of a brigade was in 1910 made Inspector of Cavairy In 1914 he went to France at the head of the Cavairy Division and in 1915 took command of an army corps He was promoted to lead the Third Army in 1917 and was then sent to Exppt. There he organised the force that drove the Turks from Palestine and was an Expt. There he organised the lorge limit drove the Turks from Palestine and won one of the most conspicuous successes of the war From 1919 to 1925 he was High Commissioner for Expt, and Captain of Deal Castle, 1925 and 1926 In 1915 Allenby was knighted and he received many other honours. In 1919 he was

only son was Lilled in 1917

Allendale Village of Northumberland It is 10 m from the market town of Hexham and is a centre for tourists visiting the district
The title of Viscount Allendale is held by

the family of Beaumont.

Alleyn Edward. English actor He was born in London, Sept. 1, 1566, and became a prominent figure on the London stage He was also concerned in building a theatre, his partner being Philip Henslowe. In 1604 the two were made Joint Masters of the King's Bears, Bulls and Mastiffs He died, Nov. 25, 1626, and was buried at Dulwich 25, 1626, and was buried at Dulwich Nov

Alleyn is known as the founder of Dulwich Old boys of the college are known

as Old Alleynians.

All Hallows Senside resort of Kent It is on the estuary of the Thames, 33 m from London, opposite Southend. There is a station on the Southern Riv, which opened the place in 1932 as a

pleasure resort.
Alliance Word used for a league or Alliance alliance between countries, an industrial league sometimes used for an industrial league Notable alliances were those formed against Louis XIV and against Napoleon, the Triple Alliance between Germany, Austria and Italy that came to an end in 1915, the Anglo-Japanese Alliance and the Holy Alliance The greatest alliance in history is that formed In 1914 to carry on the war against Germany Russia, France, Belgium, Great Britain, Serbia, Japan, Portugal, Italy, Rumania and other powers joined it. The United States never formally joined the alliance, and so the Peace Treaty speaks of the Allied and associated Powers

Alligator Amphiblous animal of the crocodile family. The name is a Spanish word for "lizard" It differs from the crocodile in having a shorter and broader head, without a fringing membrane, and toes incompletely webbed. The teeth and Jaws are also different.

Alligators are chiefly found in the warmer parts of the world They live in the Mississippi and other rivers and lay their eggs in the grass on the banks, where they are hatched by the heat of the sun The alligator is about 16 ft. long, but a smaller variety is found in China. The skin makes excellent leather

Allington Village of Kent. It stands on the Medway and is famous for its castle, which, now restored, is one of the finest examples of a medieval castle in the land.

Alliteration In poetry, and to some extent in prose, the use of words beginning with the same letter Instances are the humorous lines beginning "An Austrian Army Awfully Arrayed," and Swinburne's, "O sicepless heart and sombre soul unsleeping"

Alloa Burgh and scaport of Clackmannan-shire, Scotland, also the county town It stands on the Firth of Forth, 61 m from Stirling, on the LMS and LNE Rlys Alloa House, a modern building, is the scat of the Earl of Mar and Kellie Alloa Tower, dating from the 13th century, is an old stronghold nearly 100 ft. high. The in-

he was made a field-marshal and a viscount, dustries include the making of hosiery and receiving also £50 000. He took the title of varn and the distilling of whisky. A ferry client of Meriddo and Felixstowe. His only son was killed in 1917.

Allopathy Medical term, the exact opposite of homeopathy Meaning in Greek "other feeling," allopathy is a way of treating disease by using remedies which produce results quite opposite to those produced by the disease itself

Allotment Small piece of land used for tables By English law an allotment is defined as a piece of land not exceeding 1210 sq yards in extent.

To provide allotments in Great Britain several acts of parliament have been passed. County and district councils have power to acquire land and let it out in allotments and security of tenure is assured to the occupiers During the Great War much land was cultivated in this way In May, 1930, there were 965,000 allotments in England and Wales

In chemistry the ability to Allotropy exist in two or more distinct forms. It is possessed by certain of the chemical elements and in a slight degree by the majority of them Carbon which exists in the form of coal, diamond and graphite, is an example

Alloway Village of Avrshire It is on the River Doon, about 2 m from Ayr, and is famed for its associations with Robert Burns The cottage in which he was born is now a museum, and a monument has been creeted near the old kirk mentioned in his poem Tam o' Shanicr'

Alloy Compound formed by the mixing of two metals They may be divided into three classes 1 Mechanical mixtures which may be regarded as solidified solutions of one or more components in each 2. Definite chemical compounds,

3 Mixtures of these two classes
Some alloys are found in nature, but most
of them are prepared artificially Their purpose is to increase hardness, flexibility or toughness, or to alter the colour, or to give a definite electric resistance. Iron is hardened by manganese, copper is toughened by arsenic and made more tenacious by aluminium Gold is hardened for currency purposes by the addition of a baser motal

Some of the most useful alloys are brass, formed of copper and zinc, bronze of copper and tin, gun metal of copper and tin, German silver of copper, nickel and zinc, Britannia metal of tin, antimony and copper, and to the copper of the copp metal of tin, antimony and copper, and powter of tin and lead. Others are type metal bell metal and bearing metal. Another kind of allov is known as solder, this being composed of tin and lead Some metals, such as iron and manganese, will unite in all proportions, but others only in certain definite ones. Steel is really an alloy, although its other ingredient is not a metal but carbon. Steel which contains chromium is becoming of increasing industrial importance See STEEL

All Saints' Day Church festival Formerly known as All Hallows, its Eve (Oct 31) is still called Hallowo'en, especially in Scotland It is observed in the Church of England and by Roman Catholics

it, and was made a peer in 1886, taking the title of Baron Hindlip He died April 3, 1887 Allspice Spice, also called Jamaica pepper It is very fragrant, remaining the appear of classics. combining the aromas of clinamon, nutmer and cloves It is made from the borries of musicians, a tree growing in the West Indies, Mixico and parts of South America, and is used for Almond

flavouring and in medicine

Alluvion Word used for land added by the action of the sea, or a river It is usually due to the action of the sea which recedes in one place and encroaches in another, or to the action of a river in changing its course. There are many instances of alluvion in England, one being the estuary of the Ribble

Alluvion is sometimes confused with alluvium which is the deposit brought down by a river

It is usually the debris of rocks

River of the Crimea. On its banks Alma on Sept 20, 1854, a battle was fought between the British and French on the British and British one side and the Russians on the other fight was a stubborn one with local reverses on either side In the end, however, the allies gained possession of the heights above the river and the Russians withdrew, with heavy losses

Almack's London club It was a gaming club founded in 1764 and kept by William Almack, really MacAll, at one time valet to the 7th Duke of Hamilton It was afterwards called Goosetree's and then Brooke's Some assembly rooms in King Street, St James 8, were also called Almack's These were opened in 1765 and remained a social centre until about 1863 Att were called Willis's Rooms Afterwards they were called Willis's Rooms The present Almack's Club was founded in 1908 It is a social club, a resort of bridge players, and its house is 1 Hyde Park Place, London, W 2

Alma Mater Latin phrase meaning kind mother " It is used as a synonym for the university or college at which a person was educated.

Almanac Originally a book or other document giving particulars of the days of the year, with astronomical and other information, together with prophecies about the happenings therein Alman are of this kind appeared soon after the in vention of printing and are still issued Old Moore's and Zadkiels are examples Modern almanas are year hooks, giving a mass of almanacs are year books, giving a mass of general information The best known in Great Britain is Whittaker s

The Almanach de Gotha, first published in 1763, is an international work of reference, in which a large section is devoted to the great

European families

Almandine Gum stone, a variety of garnet. Its old name is carbuncle The stone rather resembles the ruby, but is less hard It shows the same colour whatever the light. The stones are found in North and South America, especially Brazil, and in Ceylon

Alma-Tadema Sir Lawrence glish painter, was born in Irlesland, Jan 8 1836 painter, 8 1836, He m 1870 and where he lived until his death, June 25, 1912 In 1879 he was elected an RA he was halphted in 1899 and given the Order of Merit in 1905 He became an English aloin and married an Englishwoman, Laura Aloes wood called the species of aloe and from them in medicine as a pursative A coarse variety is used as a pursative for animals. It is obtained from the dried juice of the leaves. In colour its yellowish brown and its principle is called subject and married an Englishwoman, Laura Aloes wood called the coarse variety and used in medicine as a pursative A coarse variety is used as a pursative A coarse variety is used as a pursative A coarse variety along the coarse variety and used in medicine as a pursative A coarse variety is used as a pursative A coarse variety and used in medicine as a pursative A coarse variety along the coarse variety and used in medicine as a pursative A coarse variety and used and used in medicine as a pursative A coarse variety and used an

Theresa Epps, who was also a painter Tadema's pictures are mainly scenes from Greek and

Roman mythology
Almeh in bgypt the name of a class of musicians, dancers, singers and players on

Almond Tree that grows in the southern part of Europe and to some extent in England It bears white, pink or

be tell in England to Bears white, place or red flowers and blooms in the spring It may be 10 ft high and is very ornamental, but the fruit will not usually ripen in Great Britain. The fruit contains seeds which are dried and sold as a delicacy for the table. There are sweet and bitter varieties and they are imported into England chiefly from Italy, are imported into England chiefly from Italy, Greace Morogon and California. Spain, Greece, Morocco and California oil can be made from coal tar

Almoner One who is responsible for one of the members was appointed to look after the giving of alms and there were almoners in the household of kings, princes and other high officials To day in the Royal household there is an almonry with offices in Queen Anne's Gate, London, SW It consists of the Hereditary Grand Almoner, the High Almoner, and others Most large hospitals call one of their chief officials the Lady Almoner and the chaplain of certain institutions is called the Almoner

Almshouse Homes provided for the poor They are usually built by private individuals and consist of a number of small residences in a single building Some are for men and others for women, while there are a few for married couples In many cases the inmates receive a monetary allowance

In the Middle Ages many of these almshouses or hospitals, as they were called were founded in England, and some of them are very picturesque buildings Notable almshouses are the hospital of S Cross at Winehester and the Leycester Hospital at Warwick and the Charterhouse in London To a later date Charterhouse in London To a late belongs Morden College at Blackheath Alms houses are maintained by some of the London livery companies

The administration of the funds left for alms houses is now supervised by the Charity Commission

Alnwick Urban district and market town of Northumberland also the county town It stands on the Aln, 33 m from Newcastle on the LNE Rly There is a trade in agricultural produce Owing to its a trade in agricultural produce Owing to its position Alawick was often attacked by the Scots In 1093 King Malcolm was killed here, and in 1172 William the Lion was made processor. Ben (1571) 6890 prisoner Pop (1931) 6882

Alnwick Castle, the residence of the Duke of Northumberland, stands on a hill outside the There are slight remains of the old town castle, but the present one is mainly modern, although built in the baronial style

Aloe Evergreen plant It has thick fleshy leaves and bears many tubular flowers. It grows in South Africa and other hot countries, and will thrive in the greenhouse in Great Britain

and calamba, is obtained from a tree that grows in Asia. It gives out a resinous substance, used as a perfume and in medicine An oil is distilled from the wood

Aloysius Italian saint. He was born March 9, 1568, the son of an Italian nobleman, and his name was Luigi Gonzaza In 1585 he joined the Society of Jesus, but six years later he died of the plague caught while tending the sick in Rome (June 21, 1501). Alorsius this bains the name ha took 1591) Aloysius, this being the name he took, is associated with the education of boys and many schools are named after him He was canonised in 1726

Alpaca Animal found in South America It is really a domesticated form of the guanaco, a small kind of llama. It is bred in Peru and Bolivia for the sake of its wool

The hair is fine, silky and long, its colour being black, brown or grev. It is used for making the cloth called alpaca. Its manufacture in England was begun in 1836 by Sir Titus Salt, who erected mills at Saltaire, near Bradford

## Alpha First letter of the Greek alphabet

Alphabet Collection of symbols, called letters, used to represent the various sounds made in human speech. The word comes from the first two letters of the Greek alphabet, alpha and beta. Each language has its own alphabet, with a varying number of letters, which is divided in most of them into consonants and vowels The vowels give the breathing to the consonants which cannot be pronounced without them

The earliest representations of human voice sounds were pictographs, the figure of an animal or bird being used to convey a certain sound These were succeeded by hieroglyphs and then by cuneiform, and other similar systems of writing in which a wedge or combination of wedges represented a sound The Egyptians used the hieroglyphio system, which exercised some influence upon the formation of the

alphabet.

The origin of the modern alphabet is usually attributed to the Phænicians, but it probably goes back further than their time Soon after 2000 BC there was a Servitio alphabet in use in Syria and discoveries made in 1932 proved this It consisted of 22 letters, all consonants, and is regarded as the parent of the modern alphabet. It was used by the Jews and other Semitic peoples, but it was the Phonicians who handed it on to the Greeks, and so to the modern world

The Greek alphabet, when it took its final form in the classical age, consisted of 24 letters, now little used except in classical literature and as the foundation of the modern Russian and Greek alphabets It was taken over with alterations by the Romans who evolved an alphabet of 23 letters, five being vowels, and introduced the symbols for them which, with slight modifications, are in use in most of the countries of the western world to-day It had no w and lacked also i and v, i and u were used both as vowels and consonants

The Romans carried their alphabet into England, and the Anglo-Saxon alphabet came into existence In it three letters were added to the 23 of the Romans, two of these represented the sounds th and ph The English alphabet dropped these letters, but introduced three others, J. U and W. Since then it has been unchanged, although it lacks perfection as certain letters are redundant, Q and X, for instance, and there is no symbol for the sound ch.

The French alphabet is very like the English, we that it lacks the letter W The Germans save that it lacks the letter W employ Gothic not Roman symbols, but there is an increasing tendency to use the latter. Their alphabet has 26 letters but they do not exactly correspond to the 26 English ones The Eastern languages contain far more letters than do the Western ones. The Japanese has 73, and the Sanskrit 49 For shorthand and similar purposes phonetic alphabets have been pre-pared, the universal languages such as Esperanto have also their own alphabits

Alpha Particle Name given to the charged particles of the alpha rivs emitted (rom radio-active substances These particles travel at a velocity of several thousand feet per second and have the property of causing scintillations of light when they strike a hosphorescent substance Their mass is four times that of a hydrogen nucleus and their c large twice that of an electron

Alphonso XIII. Former King of He was born May 17, 1886, and was king from the day of birth, as his father, King Alphonso XII, was He was declared of age in 1906: then dead before then his mother, Maria Christina, a member of the Hapsburg family, had been regent On May 31, 1906, he married Victoria (Lna), daughter of Princess Henry of Batten-berg and cousin of King George V Their family consists of four sons and two daughters Spain the king made himself popular, although there were several attempts on his life—one on his wedding day—and he had to face grave political troubles In 1930, there was serious disorder, which forced the king and his family to leave Spain A republic was proclaimed, but the king refused to abdicate With the queen and their children he took up his residence in France Alphonso has shown a great liking for Lingland, and was a frequent visitor to this country. In 1932 his property in Spain was confiscated by the state

Alpine Club London club It was founded in 1857 for men interested in mountaineering, especially in the Alps It is now the headquarters of that interest and since 1864 has issued the Alpane Journal Its house is at 23 Savile Row, Savile Row, London

Alps Mountain range in Europe It extends from the Rhône in France into Hungary and covers something like 80,000 sq m, with a length of 600 m and a breadth, north to south, varying from 50 to 150 m The range enters the countries of France, Switzerland, Italy, Bayaria, Austria and Hungary The various sections of the Alps bear distinguishing names, such as the Rhætian, Pennine, Gratian and Cottian Alps, the Bernese

Oberland and the Dolomites

The usual division of the Alps is into three parts, western, central and eastern. The western extends from the Mediterranean Sea to Mt Blanc, the central from Mt Blanc to the Brenner Pass, and the eastern from the Brenner Pass into Hungary The general elevation of the range is between 5000 and Brenner Pass into Hungary The general elevation of the range is between 5000 and ft Above this are some hundreds of the highest being in the west. There are Mt Blanc and Monte Rosa, the only two that exceed 15,000 ft. The most famous of the Alpine peaks, apart from Mt Blanc, are in Switzerland. They include the Jungfrau, the Matterborn the Finetereeshorn the Selection Switzerland. They include the Jungfrau, the Matterhorn, the Finsteraarborn, the Schreckhorn and the Wetterhorn, all over 12,000 ft.

ALUM

high Further east the peaks are less lofty, though there are many over 10,000 ft. high, among them the Gross Glockner and the Wildspitze Many rivers, including the Rhône, the Rhine and the Danube, rise in the Alps, and most of them flow into the Danube

Between the mountains lie heautiful valleys and lakes Of the lakes the most famous are those in Switzerland and Italy, Lucerne, Geneva, Constance, Thun, Garda, Como and Maggiore The passes of the Alps are notable, especially those leading into Italy, which have a long history Five of them are now cut by rallway lines the Mount Cenis, the S Gotthard, the Simplen, the Brenner and the Arlberg The two S Bernard passes are famous There are many cleaters in the rapper especially in many glaciers in the range, especially in Switzerland The Alps, especially the region in Switzerland, Italy and Bayaria, are a favourite holiday centre, and have been called the play-ground of Europe

The Alps are also a paradise for climbers One after another the peaks were scaled until all have now been ascended. Guides and rest

houses are provided.

District of France It lies between Alsace District of France Tonce Detrock the Rhine and the Vosges Mts, to the north of Switzerland With Lorraine it forms the district of Alsace Lorraine The chief town is Strasbourg other places are Colmar and Mulhouse In the west is a mountainous and mulnouse in the west is a mountainous region, but much of the land is fertile, and agriculture, including vine growing, is the chief occupation of the people. The III is the principal river. The area is 3200 sq m. Alsace was part of Germany in the Middle Ages and later, but in 1684 it was selzed by Trance Germany recovered it in 1671 but in

France Germany recovered it in 1871, but in 1919 it was returned to France

ALSACE-LORRAINE District of France It consists of Alsace and much of Lorraine and is the region taken from France and added to Germany in 1871 From then until 1919 it was governed by officials appointed by the German Emperor with a council elected by the people In 1879 it was allowed to send 15 members to the Reichstag and in 1911 its local council was made into a legislature of two houses In 1919, when Alsace Lorraine was returned to France, it was divided, as it had been before 1871, into the departments of Haut-Rhin, Bas-Rhin and Moselle Its area is 5600 sq m.

Alsatian Large dog This is a wolfhound originally used to protect the sheep in Alsace Early in the 20th century it became popular in Great Britain, and it is now bred as a companion and a watch dog The animal is rather untrustworthy The colour varies, but white is not favoured The ears should be stiffly erect, and other points are a deep chest and strong feet

Altai Mountain range in Asia. It covers an area of over 50,000 sq m. in Siberia and Mongolia, and is divided into two main divisions The highest point is Mt. Bieluka, which is about 15,000 ft high The district is rich in minerals, and the soil in the valleys is very fertile.

Altamira Village of Spain at is in the province of Santander and is famous for its caves There in 1879 some paintings on the cave walls were discovered. They represent bisons, deer and other animals and are said to be about 6000 years old. Village of Sprin It is in the

Altar Originally a place of sacrifice The attars of the Joys, Greeks and other peoples were raised structures on which offerings were sacrificed to God, or to the gods

There are frequent references to these altars in the Bible

The word is generally used in the Roman Catholic and other churches for the table, or stone, on which the scored elements are placed at the eucharist, or communion. It stands at the eastern end of the church, and in the Roman Church must be a consecrated slab of stone Legally there are no altars in the Church of England, they are, as described in the Prayer Book, holy tables, or communion tables, Prayer Book, noty tapies, of boundary and they must be movable and of wood some alters, especially in S. Peter's and

Some attars, especially in S Poter's and other great Roman Catholic cathedrals, are magnificent works of art, often adorned with priceless paintings as altar pieces. In most cathedrals there is a principal, or high altar, and several secondary ones. The back of the

altar is called the reredos

Altazimuth Instrument used by astron-omers to fix the exact position of a star at any time. It consists of position of a star at any time it consists or a telescope which is connected with a graduated vertical circle. The whole mechanism rotates about a vertical axis, and the angle of rotation is shown by a graduated horizontal circle. There is a fine example in Greenwich

Observatory

Altcar Village of Lancashire It is 11 m.
from Liverpool, on the L.M. 8

Rly On the flats here the Waterloo Cup is

competed for every February
Alternator Form of dynamo that
generates electric current. See DYNAMO

Alton Urban district of Hampshire Its chief industries are dealing in agricultural produce, brewing beer and making paper Here is an hospital for cripples founded by Sir W. Treloar Other buildings are the chapel of S Lawrence, and the Assembly Hall built to celebrate the peace of 1918 Pop (1931) 6172

Altona City and seaport of Germany It stands on the Elbe, just to the west of Hamburg It has three harbours and is perhaps the chief fishing port in Germany. Other industries are the making of tobacco, perfumery and maryarine, and there is a good deal of shipping Pop (1930) 227,433

Alton Towers Pleasure res resort Олов a seat of the Earl of Staffordshire. Once 4 m from Cheadle, on the L MS Rly It is famous for its gardens, which are decorated with temples, grottoes, fountains and statues, which stretch down to the little River Churnet.

Altrincham Market town and urban district of Cheshire, 8 m. from Manchester, on the Bridgewater Canal Its market gardens supply Manchester with truit, flowers, and vegetables Pop (1931) 21,356,

Alum Mineral substance White transparent, it is the orystallised double sulphate of aluminium and potassium. The name also describes a similar substance obtained from ammonia, silvor, sodium or thallium as well as double sulphates, in which no aluminium is present, obtained from iron. chrome and manganese

Alum made from alumite, or alum stone, has been produced for many years, but in the 19th century a somewhat different var ety was made from ammonia and other substances. Later plum was produced from bauxite. Alum made from alunite is mixed with fuel in a furnace, roasted and exposed to the air. After



[Camera Portrait by High Cecil

The rocks in which alumina (the only aluminium oxide) is present in large quantities are called alum shales These are found in both England and Scotland

The chief uses of alum are in dvelng and in making paper and other commercial materials It is also used in fire resisting processes and for softening water In medicine it is a caustic and an astringent

Aluminium Metallic element, the base of the mineral alumina
Its symbol is Al and its atomic weight 27 4
It is not found native, but there is an enormous amount of it in the rocks of the earth's surface, as it is found in clays, shales, slates and granites It is white with a bluish tinge Its commercial value consists chiefly in its light-ness and tensile strength It also resists rust well

Aluminium was not isolated until 1827, although the possibility of treating the ore in order to obtain it had been recognised since The chief supplies come from bauxite,

Aluminium has many uses It is employed in the building of airships and aeroplanes and for parts of engines, etc., of ships and motor cars. It is very popular for household utensils It enters into several alloys one being duralumin and another aluminium bronze, an alloy of aluminium and copper, which is much used for parts of machinery that require great strength or must stand much salt water. It is also used

for cheap jewellery It combines easily with most metals, lead being an exception

The world output of aluminium is about 175,000 tons, the United States being the largest producer The price is regulated by an

international cartel

Alva Burgh of Clackmannanshiré, Scotland It is 7 m from Stirling on the L N E Rly The chief industry is the manufacture of woollen goods Pop (1931) 3820

Alva Duke of. Spanish soldier Fernando Alvarez de Toledo was born in 1508 He became a soldier and won a reputation in Italy, Hungary and North 1508 He became a soldier and won a reputation in Italy, Hungary and North Africa, when serving in the army of Charles V In 1538 he was made commander-inchief, and his successes against France won for him the title of duke. He helped Charles against the German rebels and gained other successes, including several in Italy In 1557, Charles having abditated Philipper Alling Charles having abdicated, Philip sent Alva to the Netherlands as governor-general For six years he tried to destroy the religious and political liberties of the people, but only succeeded in ruining the country and stiffening the resistance of the inhabitants In 1573, admitting his failure, he retired to Spain In 1580 he led a successful expedition into Portugal He died Jan 12, 1582

Alverstone Viscount. English lawver Richard Everard Webster, the son of a barrister, was born Dec 22, 1842, and educated at Charterhouse and Trinity College, Cambridge, where he showed himself a fine athlete In 1868 he became a barrister and entered upon a successful career In 1885 he was elected Conservative MP for Launcesno was elected Conservative M.F. for Daunces-ton and was made Attorney-General, a post he filled also from 1886 to 1892, and from 1895 to 1900 In 1900 he was made Master of the Rölls and a baron, and in the same year became Lord Chief Justice When he retired, in 1913 he was made a rescount. He died Dec in 1913, he was made a viscount. He died Dec 15, 1915, when his title became extinct.

hot water has been added to it the liquid is Webster, who was MP for the Isle of Wight drawn off and left to crystallise 1895-1900, prosecuted C S Parnell before the Royal Commission and represented Great Britain on the Alaska Boundaries Commission.

> Flowering garden plant. There Alyssum are both annual and perennial varieties The common sweet alyssum is an annual bearing white fragrant flowers in summer  $\Delta$  dwarf alyssum is a pleasing and popular edging to flower beds

> Of the perennials the best is the yellow ssum. This reaches a height of 9 inches and alyssum bears masses of golden blooms It thrives best in a light soil A variety called citrenium bears beautiful yellow flowers, and another called alvesum spinosum, which bears white flowers, is very suitable for the rock guiden

> Alyth Bursh of Perthshire, Scotland It is 23 m from Dundee, on the LMS Rly Linen is manufactured and near is the forest of Alyth Pop (1931) 1860

Amadeus Salt lake of Australia. It is in Northern Territory and is about 200 m long

Tribe mentioned in the Bible They were nomads Amalekites Tribe Bible and lived in the desert to the south of Canaan Their descent is traced (Genesis xxxvi) to Amalek, the grandson of Esau

Amalgam Mixture of one or more metals with mercury. It thus differs from an alloy which is a mixture of one metal with another It is made by placing the metal and the mercury in dilute The most useful amalgams are tin. sliver, zinc, gold and copper They are used for slivering and gilding ornamental and other articles, such as mirrors, and also in electric apparatus Amalgams are also used by dentists. They may be either liquid or solid, liquid amalgams containing a high proportion of mercury

Heroine of Greek legend. She was a daughter of the Amalthea King of Crete She is known as the nurse of Zeus whom she fed on goat's milk Her reward was the horn of the goat, which supplied all her wants, and was called the horn of plenty (cornu comac)

Amana Town of Iowa It is the seat the Community of a religious community called the Community of True Inspiration This was established in Witrtemberg in 1714 and its members emigrated to America, settling at Iowa in 1855 It was dissolved in 1932

Amara Town of Iraq It stands on the Tigris, 130 m from Basra on the way to Bagdad On May 31, 1915, the British attacked the Turks near here and drove them out of their positions They entered the town on June 4 Pop 8000

Amazon River of South America There is some doubt as to where it rises, and consequently different estimates of its length are put forward. Its sources are the headwaters of the Maranon, and its course from there to the ocean is between 3500 and 4000 miles It has hundreds of tributaries coming from Peru, Bolivia, Ecuador and Venezuela, as well as from Brazil, and drains some 2,700,000 sq m Its tributaries include the Negro, Purus, Madeira, Tocantins, Yapuna, Morona and Xingu

The Amazon is navigable by large steamers as far as Iquitos, 2500 miles from its mouth. With its navigable tributaries it supplies some 30,000 miles of waterway Its course is almost

due east It flows from Peru right across Brazil until it enters the Atlantic Occan near Para At its mouth it is 50 miles wide. It is subject to floods and in it are many rapids. The river was first navigated by a European in 1541 Several expeditions, one in 1914, have explored the vast and largely unknown region around the river

Amazon Name for a female warrior It appears in Greek legend where the Amazons are represented as having a kingdom near the Black Sea. In art they are represented as armed and mounted on horses which they rode in triumph over their fallen foes. They visited other tribes in order to propagate their race, but the boys born to them were killed. One of the labours of Hercules was to obtain the girdle of the Amazon queen, Hippolyte

Ambassador one who represents his country in a foreign land ambassadors form the highest rank in the diplomatic service and only those who represent a great power in the capital of another great power are called by this name. They are either ordinary or extraordinary, the latter being sent on special missions of high importance. As the representative of the sovereign, an ambassador has many privileges, including precedence at state ceremonies and direct access to the ruler. In great Britain they are usually selected from the diplomatic service.

The duties of an ambassador are to keep his own government informed of the state of affairs in the country to which he is seut, and to convey to that country the opinions and wishes of his own government on matters of mutual concern At present (1933) there are 14 ambassadors in London, and Great Britain sends ambassadors to 14 countries—Argentina Belgium, Brazil Chile France, Germany, Italy, Japan, Poland Portugal, Russia Spain Turkey and the United States The representatives to other countries are of lower rank

Amber Fossil resin. It is used for orna mental purposes as it polishes very easily In colour it is of a golden hue sometimes with bluish tints sometimes, but not always, it is transparent. Flies and other insects are often found in it and its source is coniferous trees that have been rotting in the ground When rubbed amber produces negative electricity, a quality known to the Greeks, who, like other early peoples used amber as an ornament Green and blue amber exists, but is rare

Amber is found in great quantities in the southern or Prussian shores of the Baltic Sea It is also found occasionally on the east coast of England It is mined in East Prussia Greenland, Sicily, China Siam and other countries

Amber is used for beads, tobacco pipes oigurette holders, umbrella handles etc. The powder obtained from the amber can be distilled to give oil of amber which is used as a liniment and in making scent. Amber is also made by artificial means. This is compounded of copal camplor and turpentine and, unlike the real article will melt in cold ether.

Ambergris Fatty substance that comes from the intestines of the sperm whale It is grey in colour and is found floating on the water, or washed up on the shore in hot latitudes It is much used in making scent on account of its agreeable smell

Amble Urban district, market town and seaport of Northumberland It

stands near the mouth of the Coquet. The chief industry is fishing Pop (1931) 4208

Ambleside Market town and urban district of Westmorland. It stands at the head of Lake Windermere in the Lake District The River Rothay runs through it, and there is some fishing Sheep fairs are held twice a year and a rush bearing festival is celebrated in July The roads around are excellent Pop (1931) 2343

Ambo Rear ig desh with steps leading up to it very like the modern pulpit. They were used in churches in early times and may sometimes be seen to-day

Amboyna Island in the East Indies belonging to the Nether lands It covers 386 sq m It is mountainous but fertile, and here rice, sago, cloves, sugar, coffee and other tropical products are grown the town of Amboyna is the capital and the chief seaport It has a good harbour and a wireless station Amboyna wood, a very popular wood for cabinet making is grown The Bay of Ambovna outs the island almost into two peninsulas

Ambrine Remedy for burns and scalds It is made of resin of amber and melted paraffin, and was invented in 1904 It was used to relieve rheumatism, but later proved most efficacious in the treatment of burns

Ambrose Saint and bishop He was born about 340 at Trèves although other ofties olaim the honour His father was a high official of the Roman Empire and the son, having been educated in Rome, was givon an important post in Italy In 374, although not yet ordained priest, he was made a bishop of Milan, and he remained there until his death

He had much trouble with the Arlans, to whom he showed himself very hostile, and is known for his action in compelling the emperor, Theodosius, to do penance for a massacre He won respect too, by his charities to the poor He is remembered as the author of several hymns and for the Ambrosian chant The valuable Ambrosian Library at Milan is named after the saint, who died April 4 397 He is the city's patron saint and its magnificent cathedral is dedicated to him

Ambrosia in Greek and Roman my thology, the food of the gods It was therefore supposed to make those who ate it immortal

Ambry Cupboard, especially a church host and the sacred vessels were kept in a cupboard, or niche, near the altar and this was the ambry In some churches the word has survived In Scotland an ambry is a pantry or cupboard

Ambulance Vehicle, or other con Xeyance, used for removing sick and injured persons. In London and other cities and towns ambulances are provided by local authorities and can be quickly summoned in case of accident. A nurse is in attendance, and the vehicle contains material for emergency treatment. The London County Council maintain a very large service, which, in 1929, answered over 43,000 calls. Ambulances are also provided to carry persons suffering from infectious diseases to hospitals.

Field Ambulances are much used in time of war for the removal of the wounded They were introduced in the time of Napoleon, and first used in the French army Great Britain lacked an efficient service until after the Crimean War, but to-day her organisation is equal to the best. The service is in the hands of the Royal Army Medical Corps, but great assistance is given by the S John Ambulance Association and the S John Ambulance Brigade which has over 35,000 members, who receive instruction in first-aid methods. In 1864 it was agreed that ambulances should be respected by the combatants, and to show their nature they are now marked with a red cross. See First Aid Amen. Hebrew word meaning so let it be in the sense of agreement or emphasis. Prayers end with it, and in the Church of England and many other churches it is said or sung at the end of the psalms and the creeds. Moham-

medans also use the word

Amendment Word chiefly used in Parliament and at public meetings when laws are being made or decisions taken It means an alteration in a bill or resolution The custom is that any one desiring an alteration shall propose an amendment. This is voted on before the resolution to which it refers; if it is lost the way is clear for the resolution if it is carried it becomes part of the resolution, which is then voted upon as amended In Parliament wrecking amendments are sometimes proposed An example is an amendment to insert the word "not" in law an amendment is the correction of an error in a legal document

Amen-Ra Egyptian god also called Ammon He was originally worshipped at Thebes, but gradually his cult spread to other parts of the land He came in time to be the principal god of the Egyptians and the attributes of the god Ra, the sun god, and other gods were given to him He was regarded as the creator of the universo Amen-Ra is represented in art either with the head of a ram, or as a human being with two lofty feathers on his head

Amenti Name given in the Egyptian religion to the lower regions. Through it souls passed to their homes in the land of happiness Osiris was lord of this underworld, and in his presence the souls of the dead were weighed

America Name of the great continent that forms the land area of the western hemisphere, and is known some times as the New World It is named after Amerigo Vespucci, an Italian who stated that he was the first white man to land on the mainland His statement, however, is not accepted by historians, but his name, rather than that of Columbus, has remained attached to the continent America occupies something like 17 000,000 sq m stretching from the Arctic circle to Cape Horn, a distance of some 7000 m It is usually divided into two continents, North America and South America, with Central America linking them together It includes the islands known as the West Indies

The inhabitants of the continent in 1492 were called Indians, and have since been known as American Indians. The bulk of the people to-day are of European race. In South America they are chiefly Spaniards and Portuguese, in North America British (English, Scots, Irish, Welsh) and French predominate, but there are many Germans, Poles, Swedes and others.

The word America is used in a narrower and looser sense for the great country called the United States of America The inhabitants of this country call themselves Americans, and are

thus distinguished from Canadians, Mexicans, Brazilians, Peruvians and other people on the continent Sec CINTRAL AMERICA, NORTH AMERICA, SOUTH AMERICA, UNITED STATES

America's Cup International vacht 1851 when a cup, the Queen's Cup, was offered by the Royal Yacht Squadron An American yacht the America, won it and since then it has been known as the America's Cup, and the race has been sailed in American waters It has never been won by an English vacht, although the Earl of Dunraven and later Sir Thomas Lipton built several boats that competed for it Sir Thomas Lipton built sive Shamrocks, as they were called, and Shamrock I' competed in 1930 In 1934 Mr T Sopwith's Endcarour (British) was beaten by the American Rainbow

## American Civil War. Sec UNITED

American Indians Name given to the early inhabitants of the American Continent The word "Indians" was used by Columbus, about 1493 (because he thought he had reached India), and has since been generally employed

Known also as the red man, or red skin, the race is distinguished by its straight black hair, copper coloured skin, aquiline nose, prominent jaw and pointed skull. The Indians are tall and strong, with extraordinary powers of enduring hardship and resisting fatigue.

In all it is said there are 1500 tribes of Indians, who at one time lived in the vast area between Hudson Ray and Cane Horn. It is

In all it is said there are 1500 tribes of Indians, who at one time lived in the vast area between Hudson Bay and Cape Horn It is possible to make certain generalisations about this people as they were in the time of Columbus They had their own religion, a panthelstic one They worshipped spirits, who, they believed, watched over the tribe and its possessions. They had their own language a feature of which is that every sentence forms a single verbal unit. They knew something of the arts of weaving and spinning and made baskets and rough pottery. They were very fond of music and dancing, and their songs have been collected. They could paint and used paint to adorn their bodies. Their food was obtained chicily by hunting. They knew something of agriculture, as they grew maize, but the men never settled down willingly to occupations of this kind. Fighting occupied much of their time, and the feuds between one tribe and another were carried on with terrible and prolonged rancour, coupled with the infliction of the most fiendish crucities. The fighting men, trained and organised in the most cificient manner, were led by chiefs of proved experience in war.

The arrival of the Spanlards in America, and later the advent in North America of the French and British, was followed by wars between the white men and the red men, which led to a great decrease in the numbers of the latter. Though in the 18th and 19th centuries many Indians were occupied in collecting furs for sale to the white man, in North America especially the land over which they roumed was gradually occupied by the whites and the area left to them was steadily reduced

To-day the remnants of the race, in the United States and Canada, live in reservations which have been set aside for them In Mexico, Central America and South America, they roam about much as of old, although on a more restricted area

The racial purity of the Red Indian race has been impaired by associations with the white

man, but they still form a class apart In the United States their reservations cover 108,000 as m, and the population thereon is 332,397 It is notable that from 1900 it increased from 270,500 In Canada there are over 100,000, in Alexico 4,620,880 The number elsewhere is conjecture There are probably 2,000,000 in Central America, and 6,600 000 in South America

AMERICAN REVOLUTION (or War of Inde pendence) See UNITED STATES

Village in the Netherlands Amerongen Village in the Netherlands and is noted because, in Nov, 1918, the German Emperor found a home in the castle here, the residence of his friend Count Bentinek

Market town of Bucking Amersham Market town of Bucking hamshire It is 24 m from London on the Metropolitan and L N E Physics The chief industries are brewing and chair making Pop 4221

Leonold Charles Maurice Stennett. Amerv Amery English politician. Born in India, Nov 22, 1873, he was educated at Harrow and Balliol College Oxford He became a fellow of All Souls College, and in 1899 went to South Africa to represent The Times He edited The Times History of the War and then turned his attention to politics As a strong tariff reformer he stood for Parliament more than once, and in 1911 was elected for a division of Birmingham. He served at the front during the Great War, and later did confidential work in London and later did confidential work in London and Parls In 1919 Amery was made Under Secretary for the Colonies, and in 1921 Parlia mentary Secretary to the Admiralty In 1922-24 he was First Lord of the Admiralty, and in the Unionist ministry of 1924-29 he was Secretary for the Colonies and Dominions Amesbury Town of Wiltshire It stands on the edge of Sallsbury Plain, 7 m from Sallsbury, and from its Stoneberge can easily be visited.

it Stonehenge can easily be visited

Amethyst Colour it is purple violet or blue, and it is found in veins of iron and manganese It is mined in India, Ceylon and some parts of South America.

Amherst Seaport of Nova Scotia It is on Chigneeto Bay, 135 m from Hellfax and 700 from Montreal, on the QN Riys The industries include shipping

Pop (1931) 7450

Amherst Earl English title held by the family of Amherst. The soldier Sir Jeffrey Amherst, made a baron in 1776, had a nephew William Pitt Amherst, who inherited his title William went on a mission to Pekin in 1816 and was Governor General of India from 1823 to 1828 In 1826 he was created an earl The family seat is Montreal, near Sevenoaks, and the eldest son is called Viscount Holmesdale

The title of Baron Amherst of Hackney, which dates from 1892, is quite distinct from the earldom Jeffrey Amherst, the 1st baron, was born at Riverhead Kent Jan 29, 1717, and became an ensign in the Guards in 1731 and became an ensign in the Guards in 1731 In 1753 William Pitt appointed him to lead an expedition against the French in Canada, where he took Louisburg and marched to Montreal He was made Governor General, and was in Canada until 1763 In 1772 he was made Commander in-Chief, and in 1776 a baron He died Aug 3, 1797

Amides Group of organic compounds They are obtained from am

monia by replacing a portion of the hydrogen by an acid radical or a metal Amides are made by the action of ammonia on acid chloride, or on ethers, or by heating ammonium salts Amide powder is an explosive made from ammonium nitrate, charcoal and saltpetre

Amiens City of France It stands on the Somme 81 m from Paris, and is an important railway junction The cathedral considered the finest in France, was restored

The capital of the department of the Somme. Amiens is an important trading centre manufactures include various classes of textiles machinery, chemicals, etc. There is some shipping along the river, and it is a centre of market gardening Pop (1931) 90,211 Amiens was an important place in the Middle There is some

Ages as the capital of Picardy There Louis IX. arbitrated between Henry III and his barons in 1264 in favour of the English king

Amiens was important during the Great War The battle of Aug 1918, in which the Allies opened their final and victorious offensive is called the Battle of Amiens Nearly 40,000 prisoners were taken

The Treaty of Amiens was signed here between Great Britain and France, March

25 27, 1802

Amines A group of substances formed by replacing one or more of the hydrogen atoms of ammonia by alcohol or nyarogen atoms of ammonia by alcohol or other radicals. The amines resemble ammonia in having a strong smell basic and other properties. Methylamine, dimethylamine and trimethylamine give the peculiar fishy odour to herring brine. Some amines are gases, others liquids or solids.

Amirantes Group of islands in the to Great Britain and are a dependency of the Seychelles Islands They are of coral formation. and from them turtles and coconuts are ob tained

Amiwch Market town seaport and urban district of Anglesea It is on the north coast of the island 24 m from Bangor, on the LMS Rly There is a harbour There is a harbour Marble is exported, but the trade is much less than formerly Pop (1931) 2561

Amman Capital of Transjordania of Transjordania of Transjordania on the Hejaz Rly, and occupies the site of Rabbath-Ammon mentioned in the Bible It was captured by the British in Sept 1918, and whon the new State of Transjordania was created became its capital

Market town and urban Ammanford district of Carmarthen shire 12 m from Swansea and 1984 from London on the GW Rly The chief industries are tinplate works and coal mines Pop (1931)

Ammeter Instrument for measuring the strength of an electric current in ampères. In the ordinary type the passage of current through a coil of low resistance gives of current through a con of low resistance gives the coil magnetic properties and so affects a permanent magnet that is placed on pivots within the magnetic field. The intensity of the coil magnetism varies with the strength of its current. A light pointer fastened to the magnet shows the current strength in ampères on a graduated scale

Colourless gas composed of nitrogen and hydrogen Ammon1a (NH.), having a pungent suffocating odour the saturated solution forming the well-known Inquor ammoniae Like other alkaline bases it turns red litmus blue and combines with all acids to form salts, many of which are of great commercial importance Ammonia is produced commercially as a by-product in the manufacture of coal gas and synthetically by combining nitrogen and hydrogen under great pressure It is used in the preparation of dyes and in the dveing industry, also in medicine, alkali manufacture and in liquefied form for refrigerating purposes

Ammonite High explosive used in coal mines for blasting. It is a compound of nitrogen and is certified as a Another ammonite is a safety explosive Another ammonite is a fertiliser It is made from the offal of rendering establishments and contains a high proportion

of nitrogen

A marine molluse now extinct is called the amonite It resembles the nautilus ammonite

Ammonites Canaanitish tribe They claimed descent from Lot

Ammunition Material used for charg-development of means of attack, there has come about a great increase in the variety of ammunition It now includes the great projectiles used by the 15 in guns on battleships, smaller ones for guns of lesser calibre, the high explosive shells used by the artillery, bombs for trench warfare, shells emitting gas and smoke, bombs used by and against aircraft, as well as cartridges and other necessities for rifles, revolvers and small arms generally

It is made in government suctories at Woolwich and elsewhere and by a certain number of private firms It is carefully inspected and is then handed over to the Royal Army Ordnance

Corps See ARTILLERY, MUNITIONS

Amnesia Greek word meaning forget-fulness It is used by doctors to describe loss of memory, but shock or injury to, or disease of the brain may cause it Rest, or, in some cases, an operation to the brain, may effect a cure

Amnesty Word meaning "a general pardon" Of Greek origin, it means forgetting an offence and it is practically

equal to an indemnity (q r)

Amoeba Word meaning "change" or lowest class of animal life It consists of shapeless, microscopic pieces of jelly, lives on the floors and sides of ponds and can move itself by means of pseudopodia, or false feet, which are merely a succession of pulsations. The food, which is vegetable matter, can be taken into any part of the body When it reaches maturity the amoeba splits in two and so reproduces itself.

Amok Word used for an outbreak of madness It consists of running wild and injuring any one who may be met it originated among the Malays who sometimes act in this way, rushing about and using their knives indiscriminately It may be due to a sudden fit of madness, or to the use of drugs

Amontillado Spanish wine, sweet and light in colour, being very The name comes from similar to sherry. The name comes from Montilla, near Cordova, where the vines are

The Roman god of love He was Amor the son of Venus and the equivalent of the Greek Eros (q v)

and basic qualities. It is very soluble in water, Amorites Semitic race mentioned in the the saturated solution forming the well-known. Amorites Old Testament. They lived in Canaan when the Israelites invaded the land and are sometimes called Canaanites. The word are sometimes called Canaanites. The word means either "highlanders," or "people of great stature"

Prophet of the Old Testament He Amos was a shepherd and a forester about the time of Uzziah, King of Israel, and Jeroboam II, King of Judah Amos wrote one of the prophetic books of the Old Testament

Amoy Town and scaport of China It stands on an island at the mouth of the Lung-kinng and is a treaty port There is a foreign settlement and a trade in cotton.

Ampère The practical unit of electrical current, equal to one-tenth absolute electro magnetic units An ampèrehour is a current of one ampère flowing for an hour The name is taken from the physicist hour André Marie Ampère He was born at Lyons. Ian 22, 1775 His father was beheaded in the Revolution and the son became a teacher Later he was professor at the College de France, and he died at Marsellies, Jan 10, 1836 His chief work was to advance the study of electrodynamics

Amphibia Class of vertebrate animals that can live both on land and in water They are placed between the reptiles and the fishes and include frogs, toads, and newts The salamander and the axoloti

also belong to this class

Amphibia pass through several life stages The eggs are usually laid in fresh water and are hatched by the heat of the sun They next pass through a larval stage in which they possess gills and live in the water Later, limbs and lungs are provided and the adult stage, in which they live on land, is reached Amphibia do not drink, but take in moisture through the skin Hence they always inhabit damp places All are carnivorous. These remarks apply to most of the amphibia, but there are exceptions In some the young are born fully developed by viviparition Sec FROG, NEWT

To the Greeks a son of Zeus, Amphion his mother being Antiope He and his twin, Zethus, were brought up by shephords and took a terrible vengeance on snepherus and took a terribie vengeance on Dirce, the woman who had supplanted their mother She was tied to the horns of a bull and gored to death The incident is the subject of the "Farnese Bull," a magnificent piece of statuary in Naples Amphion was also famous for his skill on the lyre, which Hermes taught him It is said that when the brothers built walls around their effect of Thebes. walls around their city of Thebes, the stones moved to their places as Amphion played Amphion was the name of a British light cruiser sunk by a mine on Aug 5, 1914

Amphitheatre Roman building used for public entertainments Open to the sky, it consisted of an arena, in which beasts and gladiators fought, and tiers of seats for the spectators, the two and tiers of seats for the spectators, the two parts being divided by a wall Perhaps the greatest of the amphitheatres was the Colosseum at Rome which held 50,000 spectators Those at Verona and Arles are in a more perfect state of preservation. In England there was one at Dorchester, the lines of which may still be traced, and in 1932 the remains of one at Chester were excavated

Amphitryon In Greek legend a prince of Thebes His wife

Alcmene was visited by Jupiter, who assumed is also a great banking and financial centre, the form of her husband for this purpose, and pop (1930) 752,000 in consequence she gave birth to Hercules Amu-Daria River of Asia Known in Mollère wrote a play on Amphitryon whom he

Amphora Vessel used by the Greeks ware, it had two handles and was used for holding wine and oil It was also a measure of capacity, the Greek amphora holding nine gallons and the Roman amphora is It tapered to a point in order that it could be placed in the ground Later amphorae were used as cinerary urns

cinerary urns

Amplifier In wireless installation an apparatus used to increase the strength of electric oscillations so that the sounds can be heard more clearly on the telephone or the loud speaker They are of two main kinds If amplification takes place before the high frequency oscillations are rectified by the detector, the amplifier is a high or radio frequency one If it takes place after the oscillations are rectified it is a low, or audio, frequency amplifier or audio, frequency amplifier
The degree of amplification depends upon

The degree of amplification depends upon the magnifying power of the thermionic valve used, or the ratio of its grid voltage change to its plate voltage change This may be from 2 to 20 Several valves may be connected together so that the incoming impulses are

increased in strength step by step

Ampthill Urban district and market town of Bedfordshire. It is 8 m from Bedford, on the L M S Rly Ampthill House is the seat of Lord Ampthill Pop (1931)

The title of Baron Ampthill was taken in 1881 by Odo William Leopold Russell, a son of Lord George Russell and a grandson of the or Lord George Russell and a grandson of the Duke of Bedford Born Feb 20, 1829, he entered the diplomatic service and from 1871 to his death, April 25 1884, he was ambassador in Berlin, his term of office covering the Important years 1878 70 His son, the 2nd baron, was Governor of Madras 1899 1906, and a prominent oarsman He died in 1935

Amritsar City of Indla It is in the Punjab, 33 m from Lahore, and is reached by reliway The chief building is the Golden Temple with the Pool of Immortality, the centre of the Sikh religion There mortality, the centre of the sikh religion there are manufactures of textile goods and a considerable trade Amritsar is the chief town of a district and a division Pop (1941) 264 840 In April 1919 there was a serious riot at Amritsar A mob of 5000 or 10 000 persons assembled and set fire to some buildings as a

protest against the deportation of two agitators Thinking the position dangerous, General Dyer ordered the troops to fire and some 400 were killed and 1500 wounded A public inquiry was held and the action of Dyer was censured

City and scaport of the Amsterdam Amsterdam Notherlands It stands on the River Amstel just where that little river falls into the Ij or Y The national museum contains the finest collection of Dutch art in existence

The city has a large modern harbour con nected with the North Sea by a ship canal 15 miles long opened in 1876 Through the port a good deal of the colonial trade of the country passes timber and tobacco being prominent. Other industries are diamond cutting, sugar refining and printing The city

Amu-Daria River of Asia Known in ancient times as the Oxus, represents as a host Other plays on the subject are by Plautus and Dryden. frontier of India and Afghanistan. These unite and flow into the sea of Aral It is 1400 miles long and for part of its course is navigable

Amundsen Plorer He was born in 1872 and was educated at Oslo He studled medicine, but forsook that career to become a seaman In 1901 he went to the Arctic and later made other voyages in that area, one being the navigation of the North West Passage In 1910 in the Fram he sailed to the Antarctic and on Dec 16 1911 he reached the South Pole He joined the air service of Norway, but his attempts to reach the North Pole by air failed until in 1926 he crossed it in an airship and landed in Alaska In 1928 he set out in a seaplane to rescue the Italian Norwegian Amundsen Roald plorer he set out in a seaplane to rescue the Italian explorer, Nobile, and met his death on the expedition Amundsen wrote several books including My Life as an Explorer

River of Asia It is formed by the Amur Shilka and the Argun in Siberia and flows in a north-easterly and then a south easterly direction. Its length is 1700 miles and it is navigable in the warm weather It enters the ocean at the sea of Okhotsk having received the waters of the Sungari Ussuri and other tributaries Another name Another name for it is the Hollung Klang

Anabaptists Protestant sect promin ent in the 16th century It originated at Zwickau in Saxony and its leader was Thomas Munzer The members did not believe in infant baptism, but they did not believe in infant baptism, but they became prominent because of their positive revolutionary ideas They wished to overthrow the existing order and had a share in the revolt of the peasants in 1525, after which Munzer was put to death in 1533, under John of Leyden, they captured Münster where for about two years they put their ideas, which included polyramy, into practice In 1535 the town was taken from them and many of them were killed

Anaconda Name of a large water snake It is found in Brazil and other parts of South America where it lives on the river banks and feeds upon birds and animals In colour it is brown with black spots and its average length is 25 30 feet.

Anacreon Greek poet Born in obe Bc, lived at Samos, Athons and elsewhere and died in 478 Anacreon wrote a number of lyrics in the Ionic dialect on wine Greek poet Born in 563 love and other subjects of everyday life Of these only fragments exist. The so called these only fragments exist. The so called Anacreon odes were written in imitation of his work, at a later date. These were translated into English by Thomas Moore

Anaemia The term anaemia includes brought about by deficiency in certain of the elements about by deficiency in certain of the elements of the blood, and characterised by headache, constipation, mental irritability, and general lowering of the vitality Healthy conditions continued over a long period form the essence of treatment, diet should be simple and nutritious, fresh air and sunshine are vital, constipation must be relieved—with saline laxatives if necessary, sufficient rest is im perative, and iron tonics are necessary

In cases of Pernicious Anaemia, a very In cases of Pernicious Anaemia, a very serious form occurring in the middle aged and characterised by severe pallor of the lips and gums and yellowness of the skin, the "liver cure" is now usually administered Half a pound of raw or very lightly cooked liver, or its equivalent in some special pharmaceutical preparation, is given daily An unhealthy condition of the intestines, throat, or teeth is an aggravating cause of this disease and must be remedied must be remedied

Anaesthetic Drug or other substance that produces unconsciousness and insensibility to pain They may be divided into two classes, general and local General anaesthetics produce complete insensibility, local produce only insensibility to pain in a certain part of the body. The former are used for most major operations, the latter are used much by dentists and also for opera-tions on the eye The condition produced by

an anaesthetic is called anaesthesia

The idea of relieving the pain attendant on surgical operations has existed for centuries and opium and other drugs were used in a rough and ready way on occasions In 1800 Sir Humphry Davy suggested the use of nitrous exide, called on account of the effects it produced, laughing gas, but it was some years before anything practical was done In 1842 the United States with satisfactory results and in 1846 it was used in London In 1847 chloroform vapour was used in Edinburgh by Sin I V Simpagn while other avapour was Sir J Y Simpson, while other experimenters tried nitrous oxide, known popularly as gas The use of gas, however, was hindered because the methods of administering it were not satisfactory, but in 1867 this handicap was overcome and it is now one of the most general of anaesthetics

The chief general anaesthetics in use to-day are the three mentioned, nitrous oxide, ether and chloroform together with two others, ethyl chloride and a mixture of chloroform and ether Local anaesthetics are cocaine, eucaine and stovaine and others, which are usually sprayed around the part it is desired to treat.

Anagram Word or sentence made from the letters of another word or sentence Thus "repots" is an anagram of "poster" and "webs ran hard" of "Ber nard Shaw" Anagrams were popular among the Greeks and Romans and in modern times are much used in crosswords

Analyst other scientist whose business is to analyse food, drink and other substances Public analysts are employed by town and county councils and other authorities to examine specimens of food and drink that may be adulterated Most of them are trained chemists and belong to the Society of Public and Other Analysts, at 85 Eccleston Square, London, SW1 See Adulteration, Chemist

Anarchy Greek word meaning "no government." It indicates the condition of a country without a government, or with a government that is powerless to maintain order Men who aim at overturning the government of a country by violence are called anarchists

Some persons, however, regard anarchy as a

Anatolia Name used for Asia Minor It is a Greek word meaning "the east" and is used by the Turks The Anatolian Rlv, runs from Constantinople to Angora, with branches in other directions

Anatomy Scientific study of the body of man and the lower animals, sometimes called dissection It is part of the course of study of all medical students, who work in the dissecting room before passing to deal with the living patients

Anatomy observes the form of the various organs and tissues and the materials of which they are composed and is thus distinguished from physiology which deals with the functions of these parts One branch is descriptive anatomy, another microscopic anatomy and another morbid anatomy, the study of diseased

or abnormal structures

Anatomy was studied by the Greeks, but after their time little progress was made until modern times. John Hunter was the greatest English anatomist and in France Cuvier added much to our knowledge Great advances were made in the 19th and 20th centuries, one of the most potent influences being the use of radiography

Anaxagoras Greek philosopher Born about 500 B c in Asia Minor, he made his home in Athens and taught there, but after a time his teaching was condemned as implous and he returned to Asia Minor He died in 428 B C at Lampsacus Anaxagoras believed that matter was composed of atoms of varying nature, brought together into an ordered universe by an infinite Intelligence This was opposed to the accepted teaching of the philosophers that all matter was one element

Ancestor Worship Form of primitive religion, which is found in many different ages and countries To day it figures prominently in the native religions of China and Japan, while the "totem" pillar of the American Indians, and the "ancestor tablet" of the Maoria are also given of this cult. It probably Maoris are also signs of this cult It probably began with the offering of posthumous honour, and then of worship to great heroes and wise men, the custom being assisted by the natural strength of the family bond

Anchovy Small fish It belongs to the herring family and is found in the Mediterranean and other European waters, and is caught chiefly for use in making sauce and relishes

Anchovy Pear Fruit that grows in islands of the West Indies It grows on a tall tree, with bare stem, which often reaches a height of 50 feet and has leaves 3 ft. long The fruit is edible and tastes rather like the mango

Anchusa Perennial flowering plant, known also as alkanet It bears blue flowers and is suitable for garden borders It reaches a height of 4 ft or more and blooms in June

Ancient Lights Term used in Engclent light is a window that has let in the light
for 20 years or more It is illegal for anyone
to build so as to cut off this light
Ancona
Seaport and city of Italy. It
is on the Adriatic Sea 130 m
from Rome The principal industry is shipping

form of government, in which there is no from Rome The principal industry is shipping, compulsion in the shape of laws, but only and there are some manufactures. It is also a desire on the part of the people to act together naval station. It has Roman remains including naval station It has Roman remains including a triumphal arch creeted by Trajan and

84,437
The Ancona Fowl is a species of Leghorn It does well in Great Britain, being noted for the early age at which it begins to lay eggs

Ancre River of France It rises near Baptaime and flows into the Somme near Albert. It is about 25 m long The river came into prominence during the Great War The continuation of the Battle of the Somme in the winter of 1916 17 is called the Battle of the Ancre because it was fought mainly along the river s course

Andalusia District of Southern Spain It has a coastline on the Atlantic Ocean and the Mediterranean Sea The Guadalquiver flows through it and it is full of remains of the Moorish occupation as it includes the district of Granada Its area is about 34,000 sq m. and in it are Cadiz, Seville and Gibraltar

A breed of poultry, introduced into England from Spain, is called the Andalusian

Group of islands in the Bay Andaman Andaman of Bengal They belong to India and cover about 2260 sq m being 120 m from the nearest mainland There are five from the nearest mainland. There are five large islands, called North, Middle, South, Rutland and Baratary and about 200 small ones Port Blair is the capital and has a good harhour There are extensive forests Rubber is grown and cattle are kept Pop 17.800

Andersen Hans Christian Danish author Born at Odense, April 2, 1805, his father was a cobbler He himself took up no settled calling but soon began to write In 1830 he published a volume of poems, and he spent some time in travel which gave him material for other books. He made his name, however, by his fairy tales which have been translated into English and many other languages and read by millions of many other languages, and read by millions of children all over the world Copenhagen Aug 4, 1875 Andersen died in

Anderson Elizabeth Garrett. English doctor Born in 1836, she was a daughter of Newson Garrett of Alde burgh Suffolk She studied medicine and in 1865, although she had been unable to enter a medical school was given a licence to practice In 1870 she secured a medical degree in Paris In 1866 Miss Garrett opened a dispensary in London and this became the New Hospital for Women She worked there for many vestis and was lecturer at the London for many years and was lecturer at the London School of Medicine for Women where she was also dean In 1871 she married J. G. S. Ander son, a shipowner Of their children Sir Alan Garrett Anderson was prominent in shipping circles and Louisa Garrett Anderson followed her mothers profession Mrs Anderson died her mother a profession Mrs Anderson died at Aldeburgh Dec. 17, 1917 The first woman to become a doctor in Eng

land, she was also the first to become a mayor, filling that office at Aldeburgh in 1908 09 She had a good deal to do with the movement that resulted in women being allowed to receive the degrees of the British Medical Association

American Anderson netress Mary Antoinette Born July she in 1875 she 1859 at Sacramento, California made a first appearance on the stage, and soon became one of the leading actresses of the day

columns of a temple of Venus Pop (1930), and other Shakespearean plays as well as in and other Shakespearean plays as well as in The Lady of Lyons In 1889 she retired and in 1890 married a Spanish gentleman, Antonio de Navarro (died 1932) In 1896 she published A Fen Memories

> Mountain system of South Amer-Andes Anges ica, the largest in the world It stretches down the west coast of the continent from the Isthmus of Panama to Cape Horn, passing through Colombia, Bolivia, Brazil, Argentina, Peru, and Chile Its total length is 4400 miles, its breadth varies The system Argentina, Peru, and Chile Its total length is 4400 miles, its breadth varies The system is divided into two parallel ranges and it is known in the different parts by various names, Cordillera de la Costa and others

> Cordillera de la Costa and others
>
> The average height of the system is stated
> to be 13,000 ft. The highest point is Acon
> cagua (23,000 ft.) Other peaks over 20,000 ft.
> in height are Chimborazo in Ecuador, Sorata,
> Iliampu and Ilimane in Bolivia, and Huas
> caran in Peru Many of the peaks are active
> volcanoes, the highest of these being Cotopaxi The Amazon and other great rivers of the continent rise in the Andes, which are very

> rich in gold, silver and other minerals.
>
> In April, 1932, eight volcances, in the range between Chill and Argentina, long regarded as dormant, suddenly became active An immense dormant, Suddenly became active An immense amount of damage was done, especially in the Argentine province of Mendoza, and 3000 tons of volcanic dust fell on Buenos Aires Santiago and Monte Video, the latter, 800 miles away, were also affected by the discharge

Andirons Iron supports placed on the they stood in the centre of the room and were in general use before coal fires became popular They were made in two parts, the logs being on the lower part, while cooking was done on the upper To-day they are used for ornaments or for supporting firefrons

Andorra Republic in the Pyrenees It les between France and Spain and covers 191 sq m The people live mainly by agriculture, growing vines barley, etc, and keeping cattle The land is rich in minerals The republic is under the protection of Franco and the Bishop of Urgel Andorra la Vieja is the capital There was trouble in the state in the outbreak was quelled by French 1933 troops Pop 5230

Borough and market town of Hampshire It stands on the little River Anton, 66 m from London, on the Southern Rly The industries are brewing and milling Pop (1931) 14,290 Andover

Andrea del Sarto Italian pain ter He was born in Florence, July 17, 1486 the son of a tallor, hence his name Sarto He studied art and soon became famous He died Jan 22, Andrea painted some famous frescoes now in Florence, where are also some of his greatest pictures, including several Madonnas In the National Gallery London, is a self portrait and a Holy Family Read Browning's poem "Andrea del Sarto"

Andrew Christian apostle and saint He was a fisherman at Bethsaida and a brother of Simon Peter He followed John the Baptist, but later joined Jesus Christ he and his brother being the first of the disciples After the crucifixion he is said to have preached in Asia and Europe and to In 1833 she came to London where for some have been put to death at Patrae in A D 70 years she had an extraordinary popularity She | He was bound to a cross in the shape of the appeared in A II inter's Tale Romeo and Juliet letter X which has since been known as S.

Andrew's cross of Scotland, his day is Nov. 30

Andrewes Lancelot English divine Born in Barking in 1555, ho was educated at Cambridge He was ordained was educated at Cambridge. He was ordained and in 1589 was made master of Pembroke Hall and vicar of a London church. In 1601 he was appointed Dean of Westminster and in 1605 Bishop of Chichester. In 1609 he was elected Bishop of Ely and in 1619 of Winchester. He died Sept. 26, 1626. Andrewes helped to prepare the authorised version of the Bible and wrote The Manual of Private Persion and and wrote The Manual of Private Derotion and other works

Androcles Roman slave In first century AD, was sentenced to death as a Christian the In he He entered the arena but instead of mauling him the lion showed a friendly feeling towards him The reason was that, when hiding in a cave in Africa, Androcles had pulled a thorn out of the paw of this very lion

Andromache Trojan heroine, the wife of Hector After the capture of Troy, Neoptolemus took her to Greece, and afterwards she is said to have married Hector's brother Helenus By Hector she had a son, Astyanax, and the parting between the three just before Hector went to his death is one of the finest passages in the Ihad (Book VI)

Greek heroine. She was a daughter of the King Andromeda The Nerelds, incensed by the report of her great beauty, persuaded Poseidon to send a monster into her country. To rid the land of this incubus Andromeda must be sacrificed, so she was chained to a rock, but was rescued by Perseus (q v), who turned the monster into stone by exhibiting the head of Medusa A constellation of stars in the northern hemisphere is called Andromeda

Anemometer Instrument for measur-ing the velocity of the wind There are several kinds. In one four metal hemispherical cups are fixed on four arms at right angles so that their concave surfaces are in the same direction of rotation. The arms are revolved by the wind striking the concave surfaces. Cog wheels are thus turned and an indicator moves on a dial on which a scale is printed This gives the velocity of the wind in miles per hour.

Anemone Genus of perennial flowering plants of the genus ranunculaceae, also called windflowers. They are found in the temperate regions of Europe and bear handsome flowers. There are many varieties. The wood anemone is a wild flower which grows freely in England, bearing white flowers. The name are proposed to the flowers. flowers The poppy anemone bears flowers of many colours, crimson, scarlet, purple, etc

Aneroid See Barometer

Aneurism In human beings a dilation of an artery. It is filled with blood and if it ruptures death may ensue Ancurisms are much more common in men than in women They are due to syphilis and to excesses of one kind or another, including excessive physical work. The best treatment is rest and abstention from excess.

Angary In International law the scizure of vessels belonging to a neutral, which are in the ports of the scizer A country has the right to use the ships for its own purposes, but In International law the seizure

Andrew is the patron saint compensation must be paid. In early times angary meant the provision of horses and messengers for the public service

Angel Spiritual being They are regarded in the Bible and in other sacred literature as the messengers of God The traditional Christian belief is that they were created by God to serve him in heaven and to visit and help his people on earth Led by Satan some of them rebelled and lost their places in the heavenly processes. heavenly presence See ARCHANGEL

Angelica Perennial herb It bears fine white, or purple flowers There are several species, all of which grow in the temperate zones One species (angelica sylvesiris) grows in the woods of Great Britain It reaches a height of 5 th

At one time Angelica was regarded as an antidote for poison and a cure for infection To-day the stalks are made into a sweetmeat Formerly it was blanched and eaten like celery

The Angelica Tree is a shrub found in North America It bears berries which, infused in spirits, are sold as a cure for rheumatism and colic

Angelico Fra Italian painter Born Italian painter Born Italian painter Born Guido, but took the name of Giovanni when he entered a Dominican monastery at Fiesole in 1407 On account of his lovable disposition the was called Angelico and as brother, Fra (frater) He passed his days at Fiesole, Florence and Rome, and died in Rome, March 18, 1455

Extant works include the frescoes in the monastery of San Marco at Florence and many

pictures in the galleries of Florence, Rome, London and Paris All his paintings deal with religious subjects. One of the most with religious subjects. One of the mosnotable of his pictures is "The Last Judgment, in Florence.

Angell Sir Norman English author. Born Dec 26, 1874, Ralph Norman Angell Lane was educated in France and passed some years in the United States, where he became a journalist. In 1899 he settled in Paris and in 1910 made a reputation with his book The Great Illusion, an analysis of the ruinous effects of war on all parties. His other books include The Fruits of Vactory, 1921, The Story of Money, 1930, and The Great Assassins 1932 From 1929 to 1931 he was Labour MP for Bradford North, and in 1931 he was knighted He is editor of the periodical Forcign Affairs

Angelus Service in the Roman Catholic Church It is said three times a day, at 6 a m, noon, and 6 p m It is in honour of the annunciation of the Virgin Mary and the name is that of the first word of the scrvice

Angina Pectoris Sudden pain accompanied by a feeling of intense oppression around the heart It is a symptom of heart disease and usually attacks persons in middle life as a result of undue evertion. The attack, which is marked by impeded breathing, perspiration and great pain, may pass away as quickly as it came, but not infrequently it is fatal. Persons liable to this complaint should exercise great care in their movements. The inhaling of nitrate of amyl will give relief, but there is no real cure

Angiosperm Botanical term Seed bearbotanists into two classes, those in which the seeds are covered and those in which they are naked. The former are the angiosperms, or

Plants having their seeds in vessels Examples is for convenience called Angilcanism Each are the chestnut and the beech

Angkor Ruined city of Cambodia. Near is prayer book and its own of worship its own one of the architectural wonders of the world beliefs of the Church of England (g v).

Practice of catching fish with one of the architectural wonders of the world It dates from the 12th century and was used for the worship of Brahma and then of Buddha. The word is a corruption of Nagara Thom

The word is a corruption of Nagara Thom

Angle in seometry the difference in straight or curved Angles are measured in The circumference of a circle is divided into degrees, or in grades or in circular measured in The circumference of a circle is divided into degrees, forms a right angle A smaller one is planes meet at a point a solid angle is formed The complement of an angle is 90° is formed The complement of an angle is 90° less the angle The supplement is 180° less the angle in the aeroplane makes when gliding to the first the aeroplane makes when gliding to the formed by the chord of the wings with the line of flight of the machine

Angler Fish sometimes called the sea fish and gab It belongs to the class called Tests and is from three to the fish continuous fish and gab It belongs to the class called Teleoste, or bony fishes, and is from three to the five feet in length with a huge head and mouth It is found around the coasts of Great Britain and elsewhere in Europe, as well as in America It is found around the coasts of Great Britain and elsewhere in Europe, as well as in America and lives in the seaweed near the shore. Its pair of fins enable it to walk. It lives on small that the shore its name.

Angles Teutonic tribe living in Angle Holstein Some of them came over to England the modern Schleswig control of them came over the England control of them. Holstein Some of them came over to England in 449 and later and settled there giving their name to East Anglia and afterwards to all England Bede says they founded the kingdoms of Mercia, Bernicia and Deira

Anglesea or Anglesey County and island of Wales It lies of the separated of Caernaryonshire, from which it is separated by the Menal Strait Its area of the separated by the Menal Strait Its area of the property town is Beaumaris of the property town in Beaumaris of the property of the County town is Beaumaris of the county The LMy Island which is county hat and fortile, Anglesea is an agriful that and fortile that and the property is a second that the property i county Fint and fortile, Anglesca is an agricultural area although copper, lead and other minerals are mined and there are marble quarries Anglesca, known as Mona was con quered by the Romans in A D 78 Pop (1931)

quered by the Romans in A D 78 Pop (1931)

49,025
The title of Marquess of Anglesey has been held by the family of Paget since 1815
The difference was Henry William Paget, (1768 1854)
he lost a leg The eldest son of the marquess sent is Beaudesert in Staffordshire

A — 11

Term used for the

ANGOLA

Angling Practice of catching fish with practised as a sport or pastine, in counter distinction to fishing which is done for a liveling on in rivers and lakes, and hood It is carried on in rivers and lakes, and to a certain extent in deep water, either from

In England the favourite fish for the angler is the trout as owing to its cunning and agility. is the truet as owing to its cunning and aguity, it affords excellent sport. Angling for salmon, chiefly done in Scotland, Norway and British Columbia requires also considerable skill, and Columbia requires also considerable skill and at times a good deal of strength, as the salmon is a powerful fish. The fish chiefly caught in English Inland waters are the roach dace, gudgeon perch, carp pike, eel chub tench, the tench are usually found in lakes and ponds. There is a close season for these and other fish

There is a close season for these and other fish The interests of anglers are looked after by

The interests of anglers are looked after by the Anglers Association
There is a vast literature on angling and some of the works thereon go back to the time when printing was invented The most famous of all is The Complete Angler of Izaak Walton

of all is The Compleat Angler of Izaak Walton Anglo-Catholic Term used for the Church of England In the Church of England Their view is that the Church of England is a branch of the Catholic Church and that, therefore, its fundamental beliefs are the same as those Church of Rome and the Greek Church.

Anglo-Saxon Word used to day to describe the people MISIO-DAXON ivoru used to day to who are descended from the Angles and Saxons who invaded England It thus includes the people of England, the English people in Canada, Australia and elsewhere and many it does not include the United states but it does not include the Celtic peoples of 9cot times loosely used to describe all who speak The Anglo Saxons were dominant in Franka and Saxons were dominant

the English language
The Anglo Saxons were dominant in England
for 600 years The chief relic of their literature
is the Anglo Saxon Chronicle, a history of the
country which extends beyond their period
Eggun about 900 it is especially valuable for
the 3th, 9th and 10th centuries
Their language has, with accretions, become
the tongue of the English people They had
an elaborate system of law with payments for
offences and much use of the eath and the ordeal.

offences and much use of the oath and the ordeal

Angmering Seaside resort of Sussex. on the Southern Rly A modern place, it is 15 m from Brighton known for its tennis tournaments while there are other attractions for visitors. It has an Angelia Colony of Particular in the same of th

who common faith and practice which

Angora Now Ankara Capital of the Turkish Republic It is on the Angora river, in Asia Minor, 220 m by railway from Istanbul There are a number of industries and a considerable transit trade Pop 75,000

The goat bred in the district is called the Angora It is valued for its long hair from

which mohair is made

Angostura Bark of a tree that grows cusparia, it produces an aromatic drug, which has a medicinal value. It is used as a carminative and also as a tonic From it angostura bitters, drunk as an appetiser, is made

Angus County of Scotland formerly called Forfarshire It has a coastline on the North Sea, with the Firth of Tay to the south, and covers 873 sq m In it are some of the Grampian Hills, the Sidlaw Hills and the valley called Strathman Hills and the valley called Strathmore Forfar is the county town, but Dundee is the largest place Other towns are Brechin and Kirriemuir inland, and Arbroath and Montrose on the coast. Pop (1931) 270,190

Anhalt State of the German republic. It lies on both sides of the Elbe, and has an area of 890 sq m Dessau is the capital, Bernburg, Kothen and Zerbst are next in importance Cattle are reared and wheat and other crops grown, while there are extensive forests and large deposits of potash. It is governed by a ministry of state and a land tag and sends representatives to the Reichstag in Berlin Pop (1930) 351,000

Anhydrite Mineral consisting of calcium sulphate It is found in salt deposits and contains a little salt. It is white, grey, blue or red in colour It absorbs water and is thus converted into gypsum (q v)

Ani Name of an Egyptian scribe The papyrus of Ani, named after him, depicts the rites at an Egyptian funeral It was fashioned about 1500 BC and is 78 ft. long It forms part of the Book of the Dead, and is now in the British Museum

Aniline Colourless liquid used in the manufacture of aniline dives It was first prepared by the dry distillation of indigo, the Portuguese name for which is anil It is manufactured to-day by distilling nitro-benzene, scrapings of iron and a little hydrochloric acid. Lime is added when the reduction is complete and the aniline is distilled with steam It can be made, too, by the electro reduction of benzene It was first produced in

this way in 1856

Anilme (C.H.NH.) boils at 183° and has a specific gravity of 1024 at 16° It is only alightly soluble in water, but will dissolve easily in alcohol or benzene It is very poisonous if taken internally and the inhaling of its response is injurious. Aniline is much used in vapours is injurious Aniline is much used in making dves and in preparing benzene denvatives See Dyeing

Animal Term used in relation to living organisms apart from plant life The distinction between these two forms of living creatures becomes one of great difficulty, as among the lowest types many of the characters usually associated with animal life are shared by plant organisms. The fundamental basis of the living are shared by plant organisms.

of coal, copper, iron and petroleum. Pop (1931) stimuli, and reproduction In the multi-4,141,730 Now Anlara Capital of the tion of tissues for the carrying out of these

functions occurs, giving rise to organs
In the animal locomotion is general respiration consists of the absorption of ovygen and the removal of carbon dioxide the response to stimuli is performed by some form of nervous system, digestion is characterised by absorption of organic and inorganic food materials with associated secretory and excretory organs and reproduction occurs by simple or complex processes and organs Some degree of conprocesses and organs Some degree of con-sciousness is present, shown as instinct and intelligence in the lugher types

Attribution of a living soul to Animism Auribution objects and natural phenomena The first use of the word was for what is now called vitalism, a belief that all the phenomena peculiar to the animal world are produced by a spirit (animus) The present and generally accepted use of the term is due to E B Tylor in his book, Primitive Culture. Animism is seen in the belief, highly developed among the Greeks, that spirits are attached to trees and fountains and in the wider idea that they form part of the human entity but are distinct from the actual body

The existence of spirits was probably first suggested to primitive man when he contemplated sleep or death From the belief spirits a number of ideas were evolved T spirits might do good or harm to the living man or to his possessions if harm they could perhaps be propitiated by gifts or kept away by magical rites. In some races the belief in the transmigration of spirits or souls arose and most adopted some kind of belief in a life beyond death

Aniseed Fruit of a perennial herb An umbelliferous plant the anise grows in the southern parts of Europe and bears small white flowers. Another variety, which grows in China and Japan, belongs t the magnolia family The anise is chiefly grown for its seeds which produce a fragrant essential oil This aniseed is used in confectionery as a flavouring and as a remedy for indigestion

Anjou One of the provinces of France before the Revolution. It was the district around Angers, its capital and its chief river was the Maine It is now covered by the departments of Maine-et-Loire, Indre-et-Loire, Mayenne and Sarthe

The duchy was lost by King John in 1203, and its later counts were members of the royal

family of France In 1360 the count was made a duke and the dukes ruled it until 1584 when

it became a province of France

Ankle Joint that unites the leg with the foot. It is a hinge joint with three ligaments anterior, internal and external It articulates between the two bones of the leg, the tibia and the fibula

Bearing, as it must at times, the whole weight of the body, the ankle is very strong but nevertheless sprains and dislocations  $(q \ v)$ 

are frequent

Ankylostomiasis the presence of a hookworm in the human intestine It is chiefly found in tropical countries, but also in Great are shared by plant organisms. The fundamental basis of all living organisms is protoplasm in which are inherent the vital activities of locomotion, respiration, food absorption, secretion and excretion, response to external Britain and parts of Europe It attacks chiefly brickmakers, miners and others who work with their hands Its effects are progressive anaemia accompanied by sickness and pain.

Indian coin It is divided into four Anna pice, or 12 pic, and 16 of them go to the rupee. It is worth rather more than a penny

Annam District of Indo-China It is a French possession covering 39,758 sq m, and has a long coastline on the China Sea It is ruled by a king, under the protection of France The capital is Hué, but Binh-Dinh is equally large Tourane and other ports are open to Luropean trade Rice, cotton, maize and other crops are grown as well or sugar, tobacco, and various other tropical products Irrigation works have been put in hand There are mines of coal and iron ore also salt works Pop 5,300,000

Annan River of Dumfriesshire, Scot mouth to the Solway Firth The district through which it passes is called Annandale Annandale is also the name of a suburb of Sydney

Annan Burgh and scaport of Dumfriesshire It stands near where the River Annan falls into the Solway I7 miles from Carlisle, and is served by the LMS Riv The burgh has associations with Carly le and Dept. (1921) with Carly le and Edward Irving Pop (1931) 3959

Annapolis Town of Nova Scotia The French founded it in 1604, and it is said to be the oldest town in North America They called it Port Royal, and it was renamed Annapolis in honour of Queen Anne, after the English obtained it in 1713 It stands Town of Nova Scotla on Annapolis Bay Pop 739

Annates Payment of money for ecclesia-astical purposes. At one time every holder of any ecclesiastical office was supposed to pay the first year's revenue to the Pope In England, in 1524, Henry VIII took these annates for himself and this lasted until 1703, when they became part of the fund called Queen Anne's Bounty (q v )

Annatto Colouring matter It is ob that grows in South America and is called bira orcllana In colour it is red and it is soluble in alcohol or in alkaline solutions Known as bixon it is mixed with potash and used for dveing textile fabrics. It is employed more, however, to colour cheese and butter and to mix with varnishes and lacquers, as well as oil

Christian saint. Tradition says she Anne was born at Nazareth and married Jeachim becoming the mother of the Virgin Mary Her feast is on July 25 and she is re garded as the patron saint of married women

Anne Name of several queens consort
Two were wives of Henry VIII
The first, Anne Boleyn, was a daughter of
Sir Thomas Boleyn Earl of Wiltshire Henry
VIII made love to her, and was secretly
married to her In Sept, 1533, Annes only
child, Elizabeth, was born Soon the king thred
of his queen and Anne was tried for adultery

of his queen and Anne was tried for dudier; Found ruilty, she was beheaded on Tower Green London May 19, 1536 The other, Anne of Cleves, was Henry's fourth wife She was born Sept 22 1515 the daughter of the Duke of Cleves a Protestant, and was married to Henry, Jan 6 1540 The king disliked her from the first as, before the marriage he had only seen her portrait, and the union was dissolved in July Anne died at Chelsea, July 16, 1557

Anne of Denmark the queen of James I was the daughter of the King of Denmark and Norway She was born Dec 12, 1574, and was married at Oslo in 1589 She had five before James The house at Greenwich, built for her by James, is now a naval museum

Queen of Great Britain The vounger daughter of James II and Clarendon, she was born in London Feb 6, 1665 In July, 1683 she was married to George, Prince of Denmark When her brother in law, William of Orango, landed in England, Anne deserted her father, but was soon concerned in intrigues for his restoration As arranged Anne became Queen on William's death in March 1702, and reigned for twelve years Her reign was an important one, made glorious by the victories of Marlborough and the writings of Addison and others, but she herself was commonplace and much under the influence of her favourites, the Duchess of Marlborough, and later Mrs Masham She died Aug 1, 1714

Name of two rulers of Russia The Anne Dille first a daughter of Ivan V, was born in 1693 and married the Duke of Courland

born in 1693 and married the Duke of Courland in 1710 He died the next year and she ruled Courland until 1730 when she was chosen Empress of Russia She ruled the country, aided by her favourite, Biren, under a system of terrorism, until her death in 1740 The second Anne, born in 1718, was a German princess She was adopted by the Empress Anne and in 1739 married the Duke of Brunswick Wolfenbüttel They had a son, who, as Ivan VI became Tsar in 1740 His mother ruled for him until 1741 when she was deprived of her position She died in 1746

Annealing Process by which glass and durable It consists of heating and then gradually cooling the substance, being thus the opposite of tempering (v v) It is applied to steel bars and other materials that are subject

Annealing results in a certain rearrangement of the crystals or fibres of the material Internal stresses which might otherwise be present in the metal are avoided. It is carried out in special furnaces. The object having been heated to the proper temperature is covered with ashes Gas is used for heating the fur-naces. The rate of cooling depends to some naces extent upon the metal, but copper can be cooled quickly or slowly

Annelid Group of segmented worms blood worms lob worms and leeches. In all the body is divided into a number of rings or segments Many of them live in the water, but some on land, where they burrow in the soil or the sand Some form round themselves a dwelling made of exudations from their bodies

Annuity Perodical payment of money for a limited time It is an investment on which the owner receives not only interest on his money, but a return of his capital over a period of years, usually the duration of life Annuities can be bought through the Post Office Savings Bank, or from insurance companies Their price is worked out by actuaries. Every £100 will purchase a certain annual income which varies according to the age and sex of the annuitant. The older a person is the more he or she will get per year

Annunciation Announcement of a word is chiefly used for the announcement made by the angel Gabriel to the Virgin Mary that she should be the mother of Jesus Christ (Julie V. In the Christ). (Luke i) In the Church of England and the Roman Catholic Church the Feast of the Annunciation has always been kept on March 25 which is therefore called Lady Day

The Order of the Annunziata was founded in 1362 by a Count of Savoy It is now the chief Italian Order and its badge is a representation

of the annunciation

Annunzio Gabriele D' Italian poet and novelist. He was born at Pescara in 1864 and was educated in Rome When a boy he began to write poetry, and in a few years he had made himself known as a writer, both in prose and verse He has written some exquisite sonnets and a number of novels. some exquisite sonnets and a number of novels, some of which have been translated into Fnglish These include The Child of Pleasure The Virgin of the Rocks, The Dead City and The Pleasures of Life He has also written tragedies. In 1915 Annunzio joined the air force and served against the Austrians In 1919 he organised and led an expedition that took Figure on behalf of Italy He also took took Fiume on behalf of Italy He also took Zara, but after a time the difficulties were composed and he withdrew In 1924 he was made a prince

Anode In electrolysis the electrode through which the current enters the electrolyte The direction of the current is from the anode, through the liquid, to the lathode In the thermionic valve the anode is usually a metal cylinder towards which the

electrons move.

Anodyne Drug used to ease pain oppium is an example.

Anointing Religious and ceremonial use of oil, or ointment It is mentioned in the Bible and was practised by the early Christians, who used it at baptisms, confirmations, ordinations and in times of illness The Roman Catholic Church still practises anointing, which is part of the sacrament of extreme unction. It is used to some slight extent in the Church of England and elsewhere The king and queen are anointed at their coronation

Anselm English saint and prelate He was born at Aosta in 1033 and, after an unsettled life, entered the famous monastery at Bec in Normandy in 1060 In 1063 he was made its prior and in 1078 its abbot In 1093 he was appointed Archbishop of Canterbury, but was soon at variance with the life William II. the king, William II, and in consequence left the country and was abroad when William died. His refusal to do homage to the new king, Henry L., for his lands, led to a second exile In 1105 a compromise was made between the claims of the church and the state Anselm then returned to England and remained at Canterbury until his death, April 21, 1109 He was canonised in 1494

Lord English sailor George Anson Anson was born April 23, 1697, at Shugborough Staffordshire In 1712 he entered the navy, and in 1740 he was put in command of a squadrop, England being then at war with Spain. All his ships save one were lost, but in this he returned home with treasure worth £500,000 worth £500,000 In 1747 he defeated the French fleet off Cape Finisterre and was made

Annuity is sometimes used for a pension, or a baron. As First Lord of the Admiralty from an allowance.

Announcement of a died at Moor Park, Hertfordshire June 6, 1762 The head of the Anson family is the Earl of Lichfield

Anstey. F. Name taken by the novelist, was born Aug. 8, 1856, and was educated at King's College, London and Trinity Hall, Cambridge He contributed to Punch and made his name with the humorous story called Vice Versa in 1882 A number of other books in the same vein followed including The Tinted Venus The Brass Bottle The Talking Horse and Baboo Jabberjee, BA His other writings include plays, especially The Man from Blankleys and the volumes called Voccs Populi and Salted Almonds

Anstruther Market town of Fifeshire It stands on the Firth of Forth, 9 m from S Andrews, on the LNE RIv The chief industry is fishing, for which there is a good harbour The town consists of three old burghs, Anstruther Easter, Anstruther Wester and Kilrenny

Class of insects allied to the bees and Ant the wasps, and sometimes called the emmet They belong to the order hymenopiera There are about 2000 species The white ant, or termite, is not related to the ordinary ant.

There are male, female and neuter ants with a queen, who is larger at their head. The females are larger than the males. The neuters are sterile females who do the work The males and females have wings, but the neuters have not They mate while flying, soon afterwards the males die and the females, having shed their wings, lay their eggs which are tended by the neuters In a few days the eggs become pupae and in a few more perfect insects. Ants mescially fond of sugary substances. They are specially fond of sugary substances have stings and eject a poison called formic acid.

The homes of the ants are presages in the ground, or in the trunks of trees, but they are often found in garden soil or beneath stones They communicate with each other by means of their antennae

In Greek legend a son of Antaeus Poseidon and Ge A giant, he was a noted wrestler, being always victorious, as whenever he touched the earth, of which his mother was goddess, his strength came back to him He was killed by Hercules, who held him above the ground and squeezed him to death

Antananarivo Capital of Madagascar It stands on the hills about 100 m from the east coast and is connected by railway with its port, Tamatave Pop (1931) 92 475

Antarctica Name for the south polar continent. Except the outlying South Georgia and the South Sandwich groups it lies within 60° S latitude which roughly demarcates the floating icebelt. It is conventionally divided into the Enderby, Name for the south polar Victoria, Ross and Weddell quadrants, or more usefully into the African, Australian and African, Australian and Its land area exceeds American sectors

5,000,000 sq m
In 1928, "by virtue of discovery," the
British Government stated that the following

were regarded as part of the Empire (1) The outlying part of Coats Land—namely, the portion not comprised within the Falkland Islands dependencies, (2) Enderby Land, (3) Kemp Land, (4) Queen Mary Land, (5) the area which lies to the west of Adelie Land and which, on its discovery by the Australian Antarctic Expedition in 1912, was denominated Wilkes Land, (6) King George the Fifth Land, and (7) Oates Land

Antarctic Exploration
The first man knowingly to cross the Antarctic circle was James Cook in 1773 Between 1819 and 1822 the South Shetland, South Orkney and other islands were discovered by sealers. In 1821 Belling hausen first discovered land within the circle at Peter I Island, and other expeditions, led by Weddell, Biscoe, Balleny, Ross and other explorers followed Ross, in 1839, in the Erebus, made extensive discoveries including the volcances Erebus and Terror

Work on modern lines began with the Challenger, the first steamship to cross the circle (1874), but it was not crossed again until 1893 In 1898, explorers wintered for the first time in these cases. time in these regions In 1901 the Discovery, under R F Scott, set out and made some extensive and valuable discoveries during the The party found and named next three years The King Edward VII Land, and explored King Victoria Land, while about the same time good work was being done by expeditions under Nordenskiold, Drygalski, a German, and German, Charcot, a Frenchman Another, led by W S Bruce, discovered Coats Land Together they made certain the existence of a vast antarctic continent

In 1908, E H Shackleton led an expedition In 1908, E. H. Shackleton led an expedition that had valuable results Its members got to within 100 m of the pole and on Jan 16, 1909, determined its position, this represented an advance of over 400 m to the south over any previous expedition. The honour of being the first to reach the pole, however, fell to Reald Amundsen, who, with a party on skis, arrived there on Dec 16, 1911 A month later using sledges Scott, with four companions reached it, but met his death on the return journey.

fournes

Since the discovery of the pole, exploration work has been continued with renewed vigour, great assistance having been given by aircraft in 1911 14 some valuable 1911 14 some valuable discoveries were an expedition under Sir D Mawson made by In 1914 Shackleton set out in the Endurance and made some adventurous journeys, as he did in 1922 when he died on the way home In 1922 When he died on the way home In 1929 Sir Hubert Wilkins led another expedition, and about the same time an American expedition set out under Richard Byrd Both these explorers flew over the pole Under Sir D Mawson an expedition went out in 1929, mainly to seek information that would help to preserve the whale from extinction In 1933 Rear Admiral Byrd led an American expedition to the South Pole In 1935 the American airman explorer Dr Lincoln Ells worth with Mr Hollick Kenyon, set out on a 2000 mile flight across the Antarctic Missing from 24th Nov they were sighted by the Royal research ship Discovery II, and rescued at the Bay of Wholes on 16th January 1936
As part of a memorial to Capt. R. F. Scott

a Polar Research Institute was founded at Cambridge, and a building for it was begun in

Anteater Mammal feeding on termites and ants The name chiefly indicates three quadrupeds inhabiting Central and South America The great anteater (myrmccoplagus) with a tubular muzzle and long viscid tongue, is a ground dweller measur long 7 ft. including a very long tail. The lesser leather dressers and wool sorters, for instance

(tamandua) and the pigmy (cycloturus) are arborcal Australia possesses the banded anteater, one of the few pouchless marsupials, and two spiny anteaters (cchidna)

Antelope Generalised name for hollow horned ruminants They are They are distinguished from goats by being beardless, and from eattle and sheep by their more solid horns Asia possesses the Indian antelope (sasin), the Indian nilgal and four horned chousingha, the Tartary saiga, the Tibotan chiru, and many gazelles Most of the 150 species are confined to Africa, Arabia and Surie Resides gazelles they include the sland species are connined to Africa, Arabic that Syria Besides gazelles they include the eland, kudu, bushbuck, oryx, addax, springbuck, duiker, hartebeest and gnu The size ranges from the eland, about 6 ft high to the royal antelope, about the size of a hare Chamols, goral, servey and takin form a goat antelope sub family The so called American antelope, or pronghorn, forms another sub family

Antennae Feelers or jointed appendages appearing before the mouth in single pairs in crustaceans, myriapods and insects Crustaceans have also a smaller supplementary pair called antennules Crustacean feelers may serve as cars, claspers, stilts or for burrowing in the sand In some myrlapods and insects they are the organs of sense being used for feeling and smelling. The antennae may greatly exceed the length of the animal's body Butterfiles are distinguishable from moths by their clubbed horns

Anthology Collection of poems epigrams or prose pieces by various authors. The first Greek anthology was compiled by Meleager about 60 BC, and Constantine Cephalas, about AD 920, extended it to 300 authors Medieval and modern Latin anthologies are also known Out standing English anthologies include Palgrave's Golden Treasury The Oxford Book of English Verse, and Robert Bridges Spirit of Man The word comes from the Greek word for a flower

Anthony Christian saint. He was born in Egypt about 251, his parents being Christians, and became a hermit. He lived in the desert for some 15 years and won a great reputation for plet. In 305 he founded a monastery, or hermitage, for his followers near Memphis, and is claimed to be the originator of monasteries. He died in 356 and his festival is Jan 17

Anthony Christian saint. He was born in Lisbon in 1195 and became a monk About 1220 he joined the Franciscan Order and became noted as a preacher He died at Vercelli June 13 1231 In 1232 he was canonised and his festival is June 13 He is known as S Anthony of Padua.

Anthracite Non bituminous coal It is hard and dense and of brilliant lustre, and rarely soils the fingers Its carbon content ranges from 90 per cent to 95 per cent. It burns with intense heat and a nearly non luminous flame, and is smoleless Anthrax virulent infectious disease which and also human belings It is caused by the bacillus found in contaminated food and water, and attacks are sudden and often fatal In Great Britain cases of anthrax must be reported at once to the Ministry of Agriculture, and steps taken to isolate the injected animals

Among human beings anthrax chiefly attacks those who tend animals or handle their hair, It may come on suddenly and be fatal within 24 hours Cases must be notified to the medical officer of health To prevent an outbreak from spreading drastic cleansing by fire and disintection should be employed Persons with cuts or wounds should be specially careful when in contact with possible sources of infection

Anthropoid Variety of ape They are the lower animals There are four classes orangs, gibbons, gorillas and chimpanzees They live in Asia and Africa They resemble men in having no tail, in the number and arrangement of the teeth, and in the position of the thumb They live largely on fruit and make their homes in trees

Anthropology Science of man The study of mankind has a physical and a cultural side Physical anthropology treats of the natural history of man, and incidentally of his precursors. It seeks aid from palaeontology, which studies the fossil bones of early man and his organic contemporaries, while his present constitution is the concern of biometry and physiology. Cultural anthropology, called by Herbert Spencer sociology, unfolds the story of civilisation. For studying racial origins and human distribution the aid of chypology is involved.

Cultural anthropology, called by Herbert Spencer sociology, unfolds the story of civilisation For studying racial origins and human distribution the aid of ctinology is invoked To understand the course of human migrations importance attaches to anthropogeography When first brain and hand began that mutual reaction which raised man above the brute man the toolmaker was born, thus the story of culture demands also close application to technology, which from the very outset expounds the growing complexity of the food quest. The primary inventions, developed out of the arts of life, include fire making, personal ornament, clothing, shelter, weaving, pottery animal and plant domestication and metal working Articulate speech led to momentous developments, culminating in the art of writing

Anthropology is a subject of study at many universities, and professors of the subject exist at Oxford, Cambridge, London, Liverpool and elsewhere The study is aided by collections in the museums; in London in the British Museum and the Natural History Museum, for instance In England the headquarters of the study is the Royal Anthropological Institute at 52 Upper Bedford Place, London,

Anthropometry art of measuring The British Association schedules about 36 measurements, half for the living body and limbs and half for the head, besides 24 measurements for the skull and skeleton when dead For studying ethnological factors the minimum requirements are skin colour, eye colour, hair type, and measurements determining the cephalic, facial and nasal indices, dimensions of thigh bone, shoulder blade and pelvis, and total height

Anthropomorphism Ascription to the deity of human attributes It represents a stage of early religion when supernatural powers were made intelligible to man by being endowed with human qualities and affections. The assembly of gods on Olympus described by Homer is frankly anthropomorphic. The anthropomorphic language of the Old Testament, which speaks of the eye and hand of God, is a necessity of human thought, as man cannot upprenend beings above himself except in his own likeness

Anthropophagi Tribe of cannibals They are mentioned by Pliny and other writers as living near the Caspian Sea They are the fiesh of their parents, possibly as a religious rite

Antibes Scaport and winter resort on the French Riviera. It is 12½ m south west of Nice and has a good harbour The industries are fishing, the making of perfumes and catering for visitors Pop 12,000

Antichrist Person or power antagoulstic to Jesus Christ In the New Testament the term occurs only in the Epistles of S John, but S Paul's "man of sin" (2 Thess ii) may embody the same idea Some leaders of the Reformation identified the Papacy with Antichrist.

Anticline In geology an arched fold in sedimentary rocks caused by crustal pressure. The summit of the ridge, which may be symmetrical or irregular, forms the axis. If the beds dip in all directions from a centre the result is a dome, an anticline may therefore be regarded as an elongated dome. See Synchine

Anticosti Island of Quebec It is in the gulf of the S Lawrence and is 122 m long, covering 2600 sq m It is a preserve for certain wild animals and is a centre for the fisheries in the river

Anticyclone Atmospheric phenomenon In it an area of high barometric pressure is caused by descending air and the pressure decreases towards the edges of the area When mapped by means of isobars it is seen that the form is often that of a circle or oval The descending air becomes dry and warm and so transmits radiation freely The centre of the system is calm, but from it winds blow out, in the northern hemisphere in one direction and in the southern in the other Anticyclonic weather is marked by clear air and frost in winter, and blue sky and heat with heavy dews in summer See Cyclony

Antigone In Greek legend a daughter of Oedipus by his mother, Jocasta After he resigned the Theban throne, Antigone guided the blinded Oedipus in his wanderings until his death at Colonus Her brothers, Polyneces and Etcocles, slew each other in single combat at Thebes, whither she returned For burying the body of Polyneces against King Creon s edict she was imprisoned in a cave, where she hanged herself

Antigua Island of the British W Indies of 108 sq m The chief place is S John, which is the capital of the Leeward Islands The island produces sugar, tobacco, cotton Pop (1931), 31,235

Antilles Name collectively applied to the West Indian Islands south of the Bahamas There are two groups, both within the tropics The Greater Antilles comprise Cuba, Jamaica, Haiti and Porto Rico and some smaller islands The Lesser Antilles include the Leeward and Windward groups, and also the Brittsh islands of Barbuda, Antigua, S Christopher, Montserrat, Dominica, S Lucia, S Vincent, Barbados, Grenada, Tobago and Trinidad, and the French islands of Guadeloupe and Martinique

Antimony Metallic element. Its symbol is Sb, and its atomic weight 120 It is crystalline, brittle, lustrous, bluish-white, and melts at 432° C

It appears sporadically in nature, but the un refined commercial metal called regulus is mainly derived from its sulphide atibution, which is mined in Ohina, Australia, Borneo, France and Mexico As antimony expands when soliditying it is a constituent of alloys for sharp castings such as type metal, and also of anti friction metals. Its tin allov furnishes Britannia metal and sometimes powter

Antimony is used in medicine as an emotic

In large doses it is an irritant poison

Antinomianism Term denoting the Christians are freed by the Gospel from the obligation to observe the Mosaic law It percerts the doctrine of justification by faith propounded by S Paul (Romans) It emerged into prominence in the 16th century in Germany, where Johannes Agricola taught views which Luther stigmatised as antinomian

Antioch Ancient city in Asia Minor Its stee is 200 m from Smyrna, and it was a flourishing city in Roman times

Antioch Town of Syria It stands on the Orontes, 60 m from Aloppo There are some industrics, but its interest is mainly historical It was founded about 300 is mainly historical It was founded about 300 nc and, named after Antiochus, King of Svria was later one of the greatest cities in the Roman Empire Here the followers of Christ were first called Christians It was destroyed by the Persians in 540, but, although robuilt by the Romans never recovered its former greatness. Under Turkish rule the place then gradually decayed Pop 30,000

Antipodes Term denoting places dia-netrically opposite to each other on the earth's surface. A line joining them passes through the cirth's centre. Now Tealand is approximately the antipodes of Great Britain A cluster of uninhabited rocks 13 sq m in area nearly 500 m south-east of Dunedin, is called the Antipodes Islands

Antipope Pontiff not rightfully elected some 31 persons have been elected in opposition to a reigning pope, and are therefore called antipopes.

Antirrhinum Genus of many-coloured plants sometimes called snapdragon. There are about 25 species, natives of Europe and Asia and some have been developed as garden plants. They occur as annuals biennials and perennials.

Anti-Semitism Opposition to the modern form the movement became conspiouous in Europe during the last quarter of the 19th century and in 1882 was the cruse of many brutal outrages in Russia and Hungary inany orthal outriges in Russia and Hungary During the same period an Anti-Scinitic I eague was at work in Germany to restrict the liberty of the Jews, and from 1933 an organised anti-Scinite compaign on a large scale was carried out in Germany under the leadership of Herr Adolf Hitler the Chancellor The Dreyfus case is an illustration of Anti Scinitism in France The movement appears to be based on France The movement appears to be based on economic rather than religious or political

Antiseptic Substance which destroys or arrests the development of micro-organisms thereby proventing putro-faction or fermentation Antiseptic surgery originated by Lord Lister who introduced the swabbing of wounds with carbolic acid solutions by substances are tions, has since utilised such substances as

corrosive sublimate, boracic acid, iedine, zine chloride, salicylle acid and cresol Aseptic treatment includes cleansing the surgeon's hands, sterilising the instruments and dressings and preventing access to the wounds of pathogonia organisms

Modern chemotherapy injects into the blood stream microbe destroying substances such as salvarsan, sodium hypochlorite and aeriflavine Research is continually searching for drugs capable of destroving specific affections internally without injuring the tissue-

Antitoxin Substance which neutralises a bacterial toxin The microbes causing specific infections usually operate, not directly, but through chemical poisons produced by them Persons become immune to such toxins after the appropriate antitoxin has been introduced into the blood serum Each antitoxin neutralises only the toxin against which it was produced. It is drawn from the blood serum of a living animal which has been immunised against a bacterial toxin by repeated inoculations The most efficient are the diphtheria and tetanus entitoxins

Antler In deer the outgrowth of the Antier frontal bone Except in reindeer antiers are confined to the male and grow in pairs from pedicles on the skull above the eves During their rapid growth they are protected burning their rapid growth they are protected by a furry skin called velvet which withers and leaves the bone hard and insensitive. Antiors are used for offence and defence during the rutting senson, after which they fell away. A branched antior comprises the beam and one or more branches or times

Ant Lion Larva of a neuropterous in sect. It is found in Europe but not in Great Britain It forms in the sand a small pit into which ants and other wingless insects fall only to be seized by the ant lion lving at the bottom sand being thrown about to disable the prey. The victim is then sucked to disable the prey The victim is then sucked dry and its skin thrown away. When the larval stage is over the ant lion appears as an insect with four wings

Antofagasta Scaport of Chile, about paraiso and connected by railway with La Paz in Bolivia There is no harbour so ships discharge their cargo-s by lighters The town is quite modern The chief industry is the smelting of silver from the neighbouring mines. Pop (1930) 53 591

Antonines Age of the Period of Roman history between the accession of Titus Antoninus (Plus) AD 138 and the death of his adopted son, Marcus Aurelius AD 180 It was a period of great prosperity within the Roman Empire, both emperors being men of moderation and high ideals ideals

Antoninus Pius Roman emperor Antoninus Pius Antoninus Tibus Aurelius Plavius was born in A D 86 of good family, and in 120 was made consul Later family, and in 120 was made consul Later he was proconsul in Asia Minor and was adopted by the Emperor Hadrian as his adopted by the Emperor Haurian as his successor. He became emperor in 138 and relaned for 23 years a period of peace. A wall built between the Forth and the Clyde bears his name. He died March 7, 161

Antonio Antonello D' Italian painter Born about 1414, he studied painting in oils in Braces and is said to have taken the new medium to Italy He passed the rest of his life at Venice and died in 1493 He passed

Antrim County of Northern Ireland It and has a long coastline on the N and E. A good deal of it is hills or bogland, but there is much fertile soil whereon flax, potatoes, etc., are grown Lough Neagh is partly in the county, which includes Rathlm Island and the Skernes The chief in ers are the Lagan and the Bann. The area is 1176 sq m, and it is the most populous count; in Ireland as Beliast is herein Antrim is the county town Other places are Carrickfergus, Lisburn, Ballycastle, Ballymena, Larne and Ballymoney Portrush is one of several watering places. The county sends two members to the British parliament Pop (1926) 191,618 (excluding Beliast) The county

Antrim Market town and county town of Co Antrim, Northern Iroland, connected by railway with Belfast, 22 m away The round The castle stands in fine grounds tower, 95 ft high, is regarded as the finest in Ireland Linen and woollen goods are made

Pop 2000
The title of Earl of Antrim has been held by the family of M'Donnell since 1620

Antung Seaport of Manchuria It is on the Yalu River, 7 m from its mouth, and is connected by rallway with Mulden and other places in the interior It is a treaty port. Pop 72,500

Antwerp City and seaport of Belgium, called Anvers by the French It stands on the right bank of the Schelde, 27 m from Brussels and about 50 from the open sea. It is connected by rallway and canal with the great industrial regions of canal with the great industrial regions of France and Belgium A canal linking it with Like was begun in 1932 The finest of many buildings is the cathedral

of Notre Dame, remarkable not only for its size, its six aisles and its lofty tower, but also for its beautiful design, its stained glass and its pictures by Rubens The church of S Jacques is closely associated with the Rubens family and there are many others.

The town hall dates from the 16th century

The town hall dates from the 16th century, and the exchange was rebuilt in the 19th on

the model of the earlier one

Antwerp, with its extensive docks, quays, warehouses, etc, is one of the great trading ports of Europe The industries include shipbuilding and repairing, oil and sugar refining, and the manufacture of cloth, linen, silk and

other textiles HISTORY.

In the 15th century Antwerp replaced Bruges as the chief port of the Netherlands, and in the 16th it was probably the greatest port in Europe Its decline was aided by the destruction done by the Spanish soldiery in 1576 and its capture by the Duke of Payma in 1535, and in 1648 the Schedo was closed by the Treaty of Westphalia Antwerp, therefore, remained quite unimportant until early in the 19th century when it was for a short time in the hands of the French The Schelde was again opened to commerce and new harbour works were begun The result was that, after 1830, when Belgium became independent, became once more a scene of great trading activity It has been enlarged by taking in several adjacent places such as Berchem.

Pop (1931) 284,811
On Sept 27, 1914, the Germans attacked the

In the National Gallery, London are paintings the city, were slienced one by one A naval by him—"S Jerome in his Study," "Saldivision was sent from Britain to aid in defending the city but this could not avert is represented in Paris, Dresden and Rome County of Northern Ireland It the and of the structure. the end of the struggle

Anu Babylonian god of heaven At first worshipped as a local sky dolty in Erech, he came to be regarded as supreme in a triad which included Bel of Nippur and Ea of Eridu, who were deemed to rule heaven, earth and sea respectively

Anubis Expetian god of the dead He developed from a canine divinity who guarded the cemetery to the servant and messenger of the gods. As such he came to preside at embalmings, and watched the balance while Thoth recorded the result at the soul weighing of the dead before Osiris Often represented in pictorial and sculptural art, when he has the head of a jackal he was identified with the Greek Hermes Osiris and Nephthys were his reputed parents

Term colloquially denoting the Australian and New Zealand Anzac troops who served in the European war of 1914-18. Derived from the initial letters of the Australian and New Zealand army corps, it was adopted as a distinctive name for a cove on the coast of the Gallipoli Peninsula near Gaba Tepe Here the Australian and New Zealand troops landed on April 25, 1915. The Anzac cemeleries in Gallipoli were subsequently protected by treaty See Gallipoli

Scaport of Japan It stands on the north shore of Hondo Aomori Island on Aomori Bay and is a railway terminus There is a good harbour improved in the 20th century The port was opened to foreign trade in 1906 Pop 58,800

Main artery of the body It starts from the left ventricle of the heart Aorta and in the human adult is about 18 inches long First ascending it arches to the left and, in descending, divides into the thoracle aorta and then, passing through the diaphragm, the abdominal aorta Branches from these serve the whole arterial system except the pulmonary arteries The backflow of blood to the heart is prevented by the aortic valve See ARTERY.

North Group of orth American They formerly Apache Indian tribes ranged from Texas and Arizona southward to the Mexican state of Durango They were at constant feud with the whites until rounded up in 1886 They now live in reservations in New Mexico, Arizona and Oklahoma, and number

The name was applied to hooligans of French or alien origin in the underworld of Paris who, early in the 20th century, began to practise

murder and outrage

Mineral in which anhydrous calcium phosphate is associated Apatite with a variable proportion of the chloride or fluoride of the same metal. It appears as minute lustrous needles scattered through igneous rocks or as hevagonal prisms, up to a foot long, embedded in limestones, gabbros and gneisses. In this crystallised form it is mined in Canada and Norway Still more important supplies of mineral phosphate for artificial fertillisers are derived from varieties of apatite called phosphorite

Ape Word used for certain kinds of monkeys At one time it described city and its forts, a detached group around any kind of monkey, but to-day it is confined to the anthropoids, e.g the gorilla and to the love The name approdisiae is given to drugs talliess or short tailed ones See Anthropoid, that excite the passions

MONKEY

Apeiles Greek painter Born in the 4th century BC, he proceeded to the Macedonian court, where Alexander the Great made him his painter He portrayed his patron wielding a thunderbolt, for the Temple of Diana at Ephesus. His picture of Aphrodite rising from the sea was afterwards transferred to Rome by Augustus All have perished

Apennines

Mountain range of Italy
Itstretches right down the
country for about 800 miles and reappears in
sicily The average height is 4000 ft, and the
highest peak is Monte Corno, 9560 ft, in the
Gran Sasso d'Italia Geographers distinguish
three divisions (1) northern, (2) central,
(3) southern, there are local names for various
parts The range is cut by several passes
through which are roads and railways

Aphasia Loss of the power of speech the causes operate as in apoplexy Sensory aphasia, or the loss of the power of percelying spoken or written words, comprises word deaf ness and word blindness Motor aphasia is the loss of the power of producing spoken words

Aphis Genus of insects known to gardeners as plant lice or green fly They are very common in Great Britain They feed on plants and leave thereon an excretion called honeydew which is eagerly eaten by ants, but is injurious to vegetation They reproduce sexually once a year and in the spring the eggs hatch out into females, who give birth by division to others in a few days The others repeat the process, and so the insects increase in number enormously The males are only born in the autumn

The pests include the rose aphis and those that live on the apple bean, cabbage, hop cherry and other plants and trees. There is also a vine aphis, the phylloxera Birds and other insects keep down the pest, but the best treatment is to spray or fumigate the plants

Aphonia Loss of voice due to disease of the vocal chords in the larynx or to nervous disorders. Hysterical conditions produced by worre overwork or sheek, notwithstanding the desire and capacity for speech, may paralyse the vocal apparatus. This results if complete, in dumbness, and, if in complete, in reducing speech to a whisper

Aphorism Concise sentence embodying an important truth Differ ing from an axiom, which is self-evident, an aphorism seeks to systematise human experience The word was first used of a collection of medical propositions made by Hippocrates which began with the words "Life is short, art is long" The best known collection of aphoriems is contained in the Book of Proverbe aphorisms is contained in the Book of Proverbs.

Ap1a Seaport of the Samoan Islands It is on the north coast of Upolu, and has a trade in copra and other tropical products which are exported, although there is no harbour Near is Vallima where R. L. Stevenson lived and died See Samoa

Apis Sacred bull of Memphis He was selected for his black hide with a white forehead and was reverently tended being regarded during life as the second life of the god Ptah As each animal died the remains were enshrined in a sarcophagus

were enshrined in a sarcophagus

Apocalypse of Revelation The word means "unveiling," and apocalyptic thought which purports to reveal the future, grow out of Hebrew prophecy, and emerged incidentally, even in the prophetic age, in Ezekiel and Isalah Its classical Old Testament example is the Book of Daniel It was a favourite literary form with Jowish and Christian writers from the 2nd century B c to the 4th AD Among uncanonleal books The Book of Enoch, The Testaments of the XII Patriarchs, The Apocalypse of Baruch and The Psalms of Solomon may be described as apocalyptic See Revela

Apocrypha Religious writings of that are not found in the Hebrew canon of the Old Testament. They are found in the Greek Septuagint and the Latin Vulgate, but not in the ordinary English translations, although at one time they were bound up with the authorised version In the 39 articles they are declared to be suitable for example and instruction There are 14 of these apocrypha books 1 Esdras, 2 Esdras, Tobit, Judith, The Additions to Esther, The Wisdom of Solomon, Ecclesiasticus, Baruch, The Song of the Three Holy Children, The History of Susanna, Hel and the Dragon, The Prayer of Manasses, 1 Maccabes, 2 Maccabes
There is also a New Testament apocrypha. This includes The Episile of Barnabas, The Gospel of Peter and The Shepherd of Hermas

Apogee Point in the moon's orbit the earth was regarded as the world's centre, the earth was regarded as the world's centre, the sun and planets were each assigned an apogee Copernican astronomy making the sun central, assigns to the earth and the planets an aphelion The sun, therefore, is in apogee when the earth is in aphelion

Apollinaris Alkaline spring near Neue nahr in the Rhineland. The water contains per gallon 179 grains of solids, principally sodium salts there are also 251 grains of gaseous carbonic acid. It is bottled for use as a table water and is beneficial to the digestion. The spring was discovered in 1851.

Aphrodite To the Greeks the Goddess of Love One legend made her the daughter of Zeus and Dione in another she rose from the foam of the sea this being the meaning of her name She became the wife of Hephastus (Yulcan), and had as her lovers licrmes Arcs, Poseidon and other gods, as well as Anchiesa a mortal By Ares she was the mother of Eros (q r)

Aphrodite To the Greeks the Goddess of Fruitfulness and the ideal of female beauty Her worship, marked by excesses, was very widespread in the Greek cities, and her girdle was said to be able to arouse the passion of

is the statue of the Apollo Belvedere now in the Vatican at Rome

Christian Apollos Early Christian convert associated with's Paul He was an Alexandrian Jew, traditionally one of the 70 disciples, and his great ability and expository power led to disputes in the Christian community at Corinth, and S Paul's first Epistle to the Corinthians opens with a dignified effort to heal the schism Luther's view that Apollos wrote The Epistle to the Hebrens is widely held convert Early Hebrews is widely held

Apollyon Destroyer The word appears in the New Testament (Revix 11) as the Greek form of the Hebrew Abaddon, personified as "the angel of the bottomless pit" It is immortalised in Bunyan's Pilgrim's Progress

Apologetics Branch of theology which concerns itself with the grounds and defence of the Christian faith It animated the work of Justin Martyr, Origen, Augustine, Anselm, Aquinas and Abelard, and was systematised in the 18th century by Butler and Paley From the argument from design, miracle and Biblical authority, on which stress was formerly laid, modern apologetics has developed a constructive attitude which emphasises the moral ideal, and vindicates Christianity as the perfect faith for mankind at large

Apologue Moral fable Its characters are drawn from the animal, vegetable or mineral kingdom, never from mankind, except when parts of the human body are personalised, as in The Belly and its Members recorded by Livy Jotham's story of *The Trees*Choosing a King (Judges ix) is a scriptural
example The classical collections are those of Assop and Phaedrus, the medieval ones are typified by Reynard the Fox, and agreeable examples come from La Fontaine and Gay

Apology Expression of regret for something wrongfully said, or done By the law of England an apology must be as public as the original statement. Actions for libel are considered by the original statement. libel are avoided by the offender publishing an apology at his own expense, and paving costs. This applies also to infringements of patents, trade marks and trade names. See LIBEL.

Another kind of apology is a writing in the nature of a defence, eg, Plato's Apology for Socrates, Sir P Sydney's Apologie for Poctrie, and J H Newman's Apologia pro Vita Sua

Apoplexy Stroke or apoplexy is a loss of consciousness caused by a sudden interruption of the normal circulation in the brain (such as occurs with the bursting or blocking of a blood vessel) It usually occurs in stout, elderly men after a heavy meal or

strenuous exertion
Symptoms—The face is red, the breathing laboured, and there may be partial or complete unconsciousness, while a further sign is that the

pupils of the eyes have become insensible to pupils of the eyes have become insensible to light and may be contracted unequally One half of the body is usually paralysed

Treatment—Loosen the clothing, apply cold water bandages to the head and keep the patient absolutely still To prevent a recurrence of the attack the natient should avoid currence of the attack, the patient should avoid alcohol, rich, heavy food, and habits of over-eating Violent exertion, mental excitement or exposure to great heat are also dangerous A stroke may leave paralysis of one side of the body, impaired speech, or some mental or emotional defect.

Apophthegm Pithy utterance embodying a philosophic apophthegms which he dedicated to Trajan It should be shorter than an aphorism, and dwell more vividly in the memory Example Pithy utterance em-Knowledge is power See APHORISM

Apostasy now generally employed to designate reproachfully the abandonment of a faith In Roman Catholic ecclesiastical law it covers the renunciation of monastic vows, or of the clerical profession. At times religious persecution has induced much apostasy, contine or pretended, among Jews, Christians and Moslems The Roman Emperor Julian, who, on his accession, publicly reverted to paganism, was surnamed the Apostate

Term, denoting messenger, adopted by Jesus Christ to Apostle designate the twelve men sent forth to preach the gospel (Luke vi) The names of the twelve are Simon Peter, Andrew, James, John, Philip, Battholomew, Thomas Matthew, James the Less, Thaddaeus, Simon the Canaanite and Judas Iscarlot The 70 disciples sent forth Judas Iscariot The 70 disciples sont forth subsequently (Luke x) are also, in the Eastern Church, entitled apostles After the betrayal of Judas Iscariot his place was allocated to Matthias The title was extended to Barnabas, traditionally one of the 70, and was claimed by Paul

In imitation of S Paul, the apostle to the later Christian missionaries have Gentiles, later Christian missionaries have acquired by general consent similar titles, such as S Augustine, apostle of England, S Patrick of Ireland, S Boniface of Germany, S Francis Xavier of the Indies and others

Apostles' Creed Confession of the Christian faith It was used at baptisms quite early in the Church's history and took its present form in, or before, the 7th century

Person who mixes drugs Apothecary In England there is a society of apothecarles dating from 1617 It holds examinations and its degree of LSA enables the holder to practise medicine. The society, which is one of the London livery companies, has a hall in Water Lane, Blackfriars, in which are some valuable portraits and books In Dublin, at 95 Merrion Square there is an Apothecaries' Hall of Ireland founded in 1791

Apothecarles weight used in weighing drugs is as follows

> 3 scruples 8 drachms I drachm l on ce

The weight of a scruple is 1 296 grammes

Attribution of Apotheosis honours to distinguished persons, living or dead A development of ancestor worship, it was practised under the ancient empires and was given to Lyeurgus, Alexander, the Ptolemies, Romulus, Julius Caesar, Augustus and his successors The worship accorded to the Roman emperors, especially in the provinces, continued in some cases long after their death

Mountain system Appalachian North America extends for over 1500 m in the E from Maine to Alabama, sometimes quite near the coast It is divided into several groups, of which the most important is the Alleghany Others are the Green, Blue, White and Black Mts and the Adirondacks.

Appeal, Court of Court of law in which the de cisions of the lower courts can be reviewed, and, if necessary, reversed Every legal system has its courts of appeal In England appeals from the lower courts, held by magistrates and recorders, go to the High Court of Justice From this court, with its three divisions, appeals From this court, with its three divisions, appeals go to the Court of Appeal, which consists of the Master of the Rolls and five lords justice Appeals from this court go to the House of Lords, which is the supreme court of appeal, except for ecclesiastical cases, which go to the judicial committee of the Privy Council The judicial committee is also the supreme court for appeals from the courts of India, the Dominions and Colonies, although the Irish Free State contests this right Its members include judges from India and the Dominions In Scotland the Inner house of the Court of Session hears appeals from the outer house,

In Scotland the inner house of the Court of Session hears appeals from the outer house, Northern Ireland has a court of appeal on the English model, and from both countries appeals can be taken to the House of Lords (Canada, Australia, South Africa and New Zealand have also their courts of appeal and a final appeal to the Privy Council in London Foreign countries have courts of appeal on similar lines In the German Republic the court sits at Lcipzig These courts deal only with civil cases For criminal cases there is a court of criminal appeal in England established 1907, and in Scotland, established 1926

Appendicitis Inflammatory disease pendix The illness may be a consequence of tuberculosis, but it is more usually due to bacterial infection associated with constipation it is caused sometimes by the presence of an appendix it attacks persons of all ages, but more treamently the young more frequently the young
Sumptoms—Sudden and severe pain low in

the abdomen near the right thigh, with sickness

faintness feverishness, etc.

Treatment—External heat will help to relieve the pain No aperient or enema should be administered, and only water should be given by the mouth until medical advice is obtained. An operation is usually necessary. obtained An operation is usually necessary, and neglect may have very serious conse

Appendix In the human body the small blind gut projecting from the caecum Its full name is the verniform appendix Its length varies but the average is about 41 in The organ has no known function, so it is surmised that it represents one that has ceased to be used

Apperley Charles James English writer known as 'Nimrod. Born in Denbighshire about 1778 and educated at Rugby, he began to write on sporting matters, of which he had a wide knowledge, and soon made a reputation His books include The Life of John Mytton, The Life of a Sportsman and Nunrods Hunting Tours He died in London May 19, 1843

Appian Way Road in Italy, made in by the Appian Gate it was an important highway to Brindisi (Brundusium)

Appin Coastal district of Argyllshire in cluding Glenooe. The Appin murder, celebrated by R. L. Stevenson in Kidnapped and Catriona, was a famous case. On May 14, 1752, Colin Campbell was murdered and Alan

Breck Stewart was charged with the crime He fied to France, but James Stewart, an accomplice, was arrested, sentenced to death and hanged The real murderer is unknown

Apple Tree or bush bearing a popular malus, and it is very widely grown in Great Britain It flourishes also in various parts of Europe and in Canada, California and Australia, and is the most popular fruit in the western world It is eaten raw and used in making pies, tarts, etc., and to a certain extent in jam Some of the best known varieties are the Blenholm Orange Cox s Orange Pippin, Bramley's Seedling and Newton Wonder Appleared different lind are grown for melling.

Apples of a different kind are grown for making cider

The usual form of the apple tree is the standard grown in orchards, about 70 per acre The pyramid and the bush are suitable for restricted space as the branches are trained accordingly Apples can also be grown on cordons or espallers trained against a trellis or coruons or espaniers trained against a trellis or a wire fence Pyramids should be 10 ft apart and bushes 5 ft, but espaliers, in which the branches are trained out, need 20 ft and cordons only 2 ft. The trees can be grown in pots in a cold greenhouse

Enormous quantities of apples are grown in California, Canada Australia, especially Tas-mania New Zealand and elsewhere for the British, European and American markets Carefully graded and packed, they are available practically all the year round A system of grading and marketing English apples was introduced in 1928, and a packing station opened at Cottenham in Cambridgeshire and another later in Kent. In 1932 the British import of apples was 7.75,000 cyrts. another later in Kent. In 1932 timport of apples was 7,775 000 cwts

Appleby Borough market and county town of Westmorland It stands on the Eden in delightful country 30 m from Carlisle and is reached by both the L.M.S and L.N.E. Riys. The chief buildings are the castle, of which the keep is Norman, the parish church the town hall, the shire hall, and the grammar school There is an agricultural trade. Until 1832 the borough sent two members to Parliament Pop. (1931) 1918

Appointment In English law a limited power of disposing of disposing of disposing of leaves his money in money A person often leaves his money in trust for someone, giving to that person the power of saying to whom it shall go Thus a man may leave his money to his wife and give her the power of appointing how it shall be divided among their children

Appraiser In English law a man property of all kinds He is usually also an auctioneer Goods taken by distraint must be valued by two appraisers before they can be sold. The licence for an appraiser costs #2 a sold The licence f

Apprentice Person bound for a term undertakes to instruct him in his trade The system originated in England in the 14th century and at first applied to all occupations, manual and professional It was part of the guild system and to become a member of a guild, and therefore a recognised trader a man must have served his apprenticeship This was enforced by custom and later by law

Apprenticeship became less general as the 19th century advanced. The parents of the apprentice paid a premium and signed with

over the apprentice who was often an inmate of his household The conditions of the 20th century were all against service of this kind and, though after the Great War efforts were made to revive it, the system has steadily declined

Apricot Fruit tree of the natural order rosaccae. A native of Asia it was introduced into England in the 17th century. It is cultivated in France and California, whence fresh and tinned apricots are sent to Great Britain

Apse In church architecture a space at the Apse end of the nave It is semicircular in shape and found only in cathedrals It was introduced into the basilicas of Rome and was copied by many of the early Christian churches S Paul's has a magnificent apse and there is one at Peterborough

Apteryx Genus of birds peculiar to New Zealand It has a long beak with the nostrils at its tip a unique feature, and is about the size of the domestic fowl The tail and wings are small and useless for flight. It lives on insects and lays a single erg, which is incubated by the male bird. The native name is Kiwi

Aquarium Receptacle made in which to keep fish or plants alive in water, either fresh or salt. It has usually four sides, one at least being of glass in order to permit observation. Slate or zinc are used

for the bottom.

The word is also used for a building in which fish are displayed. There is a famous one at the Battery, New York, and another at the Battery of the include an the Battery, New York, and another at Brighton Zoological gardens often include an aquarium among their buildings, as in the Zoological Gardens at Regent's Park and the Scottish Zoological Gardens at Corstorphine, Edinburgh

Aqueduct Artificial channel used to convey water above the ground The Romans were great builders of aqueducts and there are remains of their work in the convey of the con in Italy, at Nimes in France, Mainz in Germany and Segovia in Spain

These aqueducts were built usually of stone, the water being carried in chambers lined with cement and covered over Hills were avoided

cement and covered over Hills were avoided and the water carried by the force of gravity To-day water is conveyed usually by pipes laid underground, but overland structures are sometimes necessary In England an aqueduct carries the Bridgwater Canal over the Manchester Ship Canal In the United States there are large aqueducts such as the Catskill, 126 m long, that supplies New York with water Much longer aqueducts carry water to Los Angeles and San Francisco

Aquila New Testament character A Jew, born at Pontus, he was converted to Christianity With his wife, Priscilla, he was contained S Paul at Corinth and saved his life at Ephesus

Aquila is also the name of a constellation in the northern hemisphere Altair is its chief star

Aquilegia Genus of flowering plants They belong to the order ranunculaceae and the best known is the columbine (q v)

Thomas Aquinas Italian saint and

the employer a contract called articles, which noble family at Aquino, near Nuples, in 1226, was stamped, and laid down the conditions of sent to the Benedictine monastery of Monto service. The master had a good deal of power Casino, and then studied at the University of Naples He joined the Dominican order, but his brothers fetched him home against his will, two years later he escaped and went to Cologne where he was influenced by Albertus Magnus He studied in Paris for two years, after which he began to teach

Thomas soon won a reputation as the greatest scholar in his order and perhaps in Christendom He taught in Rome, Pisa, Bologna and Naples, but refused to accept any high office in the church He died March 7, 1274 His body was given to Toulouse, and in 1323 he was canonised His day is March 7.

Aquitaine District of France It lies between the Garonne and the Pyrenees It is divided into Guienne to the N and Gascony The name Aquitania was to the Loire Eleanor, the daughter of one of the ruling dukes, married Henry II of England. In this way Aquitame came under English rule and parts of it remained so until 145.

Arab Semitic race, including all the Semites except the Jews and found in many parts of Asia and Africa. They were settled in Arabia at the time of Mahomet, but his teaching induced them to spread their new faith They invaded Africa and later Spain, founded an empire in India and settled in various parts of Asia To-day they number various parts of Asia To-day they number nearly 10,000,000, practically all Vohummodans

Among their numerous dialects the language of the Koran is regarded as the standard of purity Mathematics and philosophy are prominent in their literature, and the Arabic schools of learning at Bagdad and elsewhere have contributed to the sum of human knowledge Sec Arabia

Arabesque Form of design used by the Arabs in architecture and painting Griffins, dragons and other fabulous animals are introduced into it, and it usually takes the form of an ornamental frieze or border. The Moors brought it to Europe, although something of the kind was known to the Romans

Arabia Country of Asia It is a peninsula in the SW of the continent surrounded by the Persian Gulf, the Indian Ocean and the Red Sea, in area about

surrounded by the Persian Gulf, the Indian Ocean and the Red Sea, in area about 1,000,000 sq m, and about 1800 m long Much of the land is desert, but there are fertile strips along the coast and in the cases In the S, on both sides of the great plateau, are mountains rising to 10,000 ft. The climate is hot and dry Pop (approx) 10,000,000 HISTORY. Arabia was divided by Ptolemy into three parts, Arabia Deserta, Arabia Felix and Arabia Petraea, or the stony, in the NW Its inhabitants consist of the wandering Bedouins of the interior and the Arabs who have settled near the coast The former keep the famous camels and horses, and rear sheep and goats. Since the Great War Bertram Thomas and H S. John Philby among others have, by their journeys added greatly to our knowledge of the country

In the 7th century Arabia became the head-quarters of Mohammedanism In the 16th century the Turks began to conquer the country and it was more or less under their rule

when the Great War began
In 1916 the Sherif of Mecca threw off the
authority of the Turks, and help was given to theologian. He was born of a him by Great Britain and his army organised

the other side of the country are the state of Kuweit under British protection, and the independent state of Oman

Arabi Pasha Egyptian leader Ahmed Arabi born about 1839 of humble parents, entered the army and made of humble parents, entered the army and made himself prominent by leading an agitation against Turkish and other interference in Egypt. In 1882 he became Minister for War and aroused the suspicions of the European powers. The British took action and after the bombardment of Alexandria an army was landed and Arabi's troops were beaten at Tolel Kebir. Arabi was sentenced to death, but this was not carried out and he was eviled. but this was not carried out and he was exiled to Ceylon In 1901 he was allowed to return to Egypt and there he died, Sept 21, 1911

Arabis Genus of flowering plants also called rock cress It bears white or purple flowers and is a favourite plant for borders. The chief varieties, the double white and single flowering arabis theire in a light soil and can be planted at any time from pots in spring or autumn

Arable Lond which can be ploughed or which is only suited for pasture. The amount of arable land in Great Britain has shown a stady decline since the middle of the 19th century. In 1901 10 the average amount was 15,106,028 acres, in 1932 it was 12,493,000 acros.

Arachnida Class of arthropods. It is, word for sinder and includes spidors scorplons and mites. They are chlefly carnivorous and have usually six pairs of limbs, four for walking and the others for selzing food. They have no antennae, simple eves varying from 2 to 12, and the head and thorax are fused together See Stiden

Aragon Kingdom of Spain It lay to the coastline on the Mediterranean Its capital coastline on the Meditorranean Its capital was Sanapossa and its chief rivor the below The Lingdom arose in the 11th contary under Ramiro Later kings extended its area, one of them took the Balearie Islands from the Moors while others secured Naples, Sicily and Sardinia In 11th, John who ruled all these lands, save Naples, married his son, Ferdinand to Labella of Cestile, realizer on the largeter. to Isabella of Castile, making one kingdom called Spain Aragon had its cortes, or national assembly in the 12th century or earlier, and in this the towns were represented.

Aral, Sea of Lake of Asla, situated in the territory of Soviet Russia about 80 m to the E of the Caspian Sea. Over 250 m long and covering 28,000 sq m, it is full of fish, and seals are caught The rivers Amu Darla and Syr-Darla flow into it, but nono flow out. It is very shallow, and evaporation is steadily reducing its size

by Col T E Lawrence One of the problems before the Peace Conference in 1919 was to make a settlement that would meet the new situation in Arabia, from which the Turks had been expelled. It took six years of warfare before a static political condition was reached. The kingdom of Saudi Arabia, in which are the cities of the Red Sea. Below is the Yomen, part of which forms the Aden protectorate and part is under two mative rulers at Sana and Sabia. The adjoining district called the Hadramaut is a British protectorate. On the other side of the country and the protectorate and satic protectorate of the country and the protectorate of the country and the protectorate and part is under two mative rulers at Sana and Sabia. The adjoining district called the Hadramaut is a British protectorate. On the other side of the country and the protectorate of the country and the protector and the pro

Aram Eugene English criminal Born at Ramsgill, in Nidderdale, Yorkshire, in 1704, his father was a gardener He became a schoolmaster at Knaresborough, but became a sensormaster at kingestorough, but left the town in 1745, suspected of fraud. He was associated with a certain Daniel Clark whose body was found some years later in a cave. Aram was arrested at King's Lynn in 1759 was found gullty and executed on Aug 6 Before the end he confessed to a share in the crime which he cludged was catually comcrime which, he alleged, was actually committed by another

Aran Group of islands of the coast of Galway The three largest are Aranmore, or Inishmore Inishmenn and Inisheer, and they cover 18 sq. m. There are rains of an abboy, and the islands were once a centre of religion and learning Flahing is the main industry

Ararat District of Armonia, named from its chief river Aras, or Araxes. On Mount Ararat the Ark is said to have rested (Genesis viii) It is an extinct volcano with two peaks, 17,000 ft high The Armenians call it the Massis, and the Persians the Mountain of Noah

Ararat Town of Victoria It is a railway junction, in a farming district. Mining is carried on and there are some small industries It is 130 m from Michourne by railway Pop (1931) 5350

Arbitration Method of deciding dis law, strikes lock outs or war There are three kinds of arbitration legal, industrial or international

The arbitrator who is a lawyer, is appointed by the parties concerned, or by the court. Sometimes the court orders an arbitration. The price of land taken for public purposes is

The price of land taken for public purposes is often settled by arbitration. Industrial arbitration is employed to settle disputes between employed and employed. In Great Britain there is an industrial court in the Ministry of Labour.

Compulsory arbitration, tried during the Great War in Britain, has been introduced into Australia and New Zealand, with only qualified

International arbitration has been used many International arbitration has been used many times, notably in the Boring Sea fisheries dispute between Canada and U.S.A. in 1893 An industrial court was established at the Hague in 1899 and many nations, including Great Britain, France and U.S.A., have signed treaties undertaking to submit their disputes to arbitration. These treaties have been deposited with the League of Nations.

Arbor Vitae Evergreen conferous tree There are two main kinds, the American and the Chinese Both give out a strong aromatic scent. The tiny leaves are pressed against the twigs and branches

Arbroath Burgh, market town and sea port of Angus (Forfar), in full

Aberbrothock. It stands near the mouth of the River Brothock, 17 m from Dundee There is a good harbour and shipping is the chief industry The abbot of the now ruined abbot is immortalised in Southey's poem The Abbot of Aberbrothocl Pop (1931) 17,637

Arbutus Evergreen shrub It bears clustered sprays and flourishes in a warm, sunny sheltered position in moist soil It should be grown in pots until ready for planting out. Seeds can be sown in a frame or cuttings of young shoots may be taken in July and struck in a frame The long straggling shoots should be trimmed back in April and the dead wood cut out.

Arc Portion of a curved line so called because it represents a drawn bow (Latin, arcus) The straight line that joins its extremities is called the chord. The length of the arc of a circle can be determined if the angle subtending the arc at the centre and the radius, or circumference, are known. If a is the radius the circumference equals  $2\pi x$ . Thus, if a is the angle subtending the arc, the length of the arc is  $\frac{a}{480}$  of the circumference

ARC LAMP Special type of electric lamp for lighting purposes It consists of a pair of carbon rods through which a high voltage current is passed, producing a luminous glow or arc between the poles of the carbons As the carbons are burnt away during the process, a mechanism is attached to regulate the distance between the poles In one type of lamp the carbons are exposed to the air, and in another they are enclosed in a glass globe

Arcade Range of arches supported by piers, or columns In some there is a gallery behind the arches, but in others they are part of the wall They form a feature of Gothic architecture and perhaps the finest in the world are those of the doge's palace at Venice To-day the term is used for a covered way which is lined with shops

Arcadia District of Greece It was a mountainous region in the S, and its inhabitants were regarded as living a simple, rural life Consequently Arcadia be came used for a land of peace, plenty and contentment

Arcadius Roman emperor A son of Theodosius the Great, he was born in Spain in 377 In 395, when his father died, the empire was divided between his two sons, Honorius and Arcadius, and the latter, making Byzantium his capital, became the first of the East Roman emperors He showed no ability and his vast realm was ruled by the prefect Rufinus and his wife, Eudoxia

Arch Architectural term It describes a structure spanning vertically an opening or recess, and serving as a support There are two main kinds, round and pointed, or Roman and Gothic, and several varieties of each

The arch was used by the Egyptians and other early peoples, though not to any extent by the Greeks The modern round form originated with the Romans and is seen in existing Saxon and Norman buildings The pointed, Gothic arch developed later and was first used by the Mohammedans, and, like them, the Christians adopted it as a symbol of their faith, in the great cathedrals of the Middle Ages, in which the arch determined the structure of the building in the Decorated and Perpendicular periods.

The Tudor arch is confined to the secular buildings of that period

The triumphal arch was erected by the Romans to celebrate a victory. Three still stand in Rome—the arch of Constantine, of Septimius Severus and of Titus. There are fine examples in other cities, notably at Orange Napoleon copled the idea when he erected the Arc de Triomphe in Paris. The Marble Arch in London is another Roman model.

Arch Joseph English politician Born at Barford, Warwickshire, Nov 10, 1826, the son of an agricultural labourer He became a local preacher and soon took the lead in trying to improve the condition of his fellow labourers In 1872 he formed the National Union of Agricultural Labourers In 1885-86 and again 1892-1900 he was Liberal MP for NW Norfolk He wrote an Aulobiography and died Feb 12, 1919

Archaeology Study of the ruined buildings and other material remains of ancient civilisations. One of the earliest workers was Sir Henry Layard who examined the ruins of Nineveh and Babylon in the years around 1850. Since then an enormous amount of work has been done in the Mediterranean region, the crudle of human civilisation also in America and the farther parts of Asia.

Wonderful results were achieved by the German, T Schliemann, when excavating the ruins of Troy Sir Wm Flinders Petrie's equally valuable work enabled us to build up the early history of Egypt Sir Arthur Evans has excavated in Crote, Sir W Ramsay in Asia Minor, Sir Aurel Stein in Central Asia, and Howard Carter in Egypt

In the 20th century interest was directed largely to finds of the highest value at Ur in

In the 20th century interest was directed largely to finds of the highest value at Ur in Mesopotamia, where the Sumerian and other civilisations have been revealed to us. The excavations of archaeologists in Rome and Athens are of supreme importance for early Greek and Roman history Small scale work in London has given it an archaeological society of its own

In Britain's limited field much work has been done, adding greatly to our knowledge of Celtic civilisation and Roman influences by unearthing the cities of Silchester and Uriconium, and by examining the remains at Bath, Chester, Colchester and elsowhere

Bath, Chester, Colchester and elsewhere
Archaeology is now a subject of study at
nearly all universities There are schools or
institutes of archaeology in Athens, Rome,
Jerusalem, Egypt and elsewhere Expeditions
are sent out regularly by the British Museum
or are organised by the universities, those of
America being, perhaps foremost. Others are
financed by private individuals

Headquarters in England are the Archaeological Institute of Great Britain and Ireland
at Langester House S. Lange's London S.W.

Headquarters in England are the Archaeological Institute of Great Britain and Ireland at Lancaster House, S James's, London, S.W., and the British Archaeological Association at 22 Russell Square, London, W C 1 There is also an Archaeological Society at 207 Bath Street, Glasgow In 1932 arrangements were made for the establishment of a central Archaeological Institute in connection with the University of London The Archaeological Journal is published in the interests of the study

Archangel Superior order of angel Four are recognised in Christian literature, Michael, Gabriel, Raphael and Uriel Three others have been named, Chamuel, Jophiel and Zadkiel.

Archangel Scaport and city of Soviet Russia it stands where the river Dvina falls into the Gulf of Archangel an opening of the White Sea. It is 700 m from Moscow, with a railway line Thore is a good harbour, open only in summer Pop good h

In Aug 1918, in order to help those Russians who supported the cause of the Allies an allied force, chiefly British, landed at Archangel after a little opposition There was a good after a little opposition There was a good deal of fighting, but no definite results were It was then decided to withdraw, and Lord Rawlinson was sent to direct this operation which was completed on Sept. 27,1919

Archbishop High official in the Chris The title first appeared in the 6th century, and since then the archbishop has been the head of a group of bishops, the district under his control being known as a province

In the Church of England there are two carbibles Centerbury and York each with

in the Unurch of England there are two archbishops, Canterbury and York, each with his province. The former ranks immediately after the Princes of the blood royal and has the right of crowning the Sovereign. The latter ranks after the Lord Chancellor and has the right of crowning the Queen Consort.

There is an Archbishop of Wales and

the right of crowning the Queen Consort.

There is an Archbishop of Wales and Anglican archbishops in Ireland, Australia, Canada and other parts in and out of the Empire In Ireland the archbishoprics are Armagh and Dublin The Roman Catholic church has four archbishops in England and Wales Westminster, Cardiff, Birmingham and Liverpool, two in Scotland, S Andrews and Edinburgh and Glasgow, and four in Ireland, Armagh, Dublin, Cashel and Tuam, as well as many in other parts of the world

Archdeacon Official in the Church of the early church as chief of the deacons attached to a cathedral Later he appeared as the assistant of the bishop in diocesan affairs. In time the archdeacons became almost inde pendent of the bishops, their duties being concerned with the financial and business side In this connection they won an unenviable

reputation for rapacity
In the Church of England to day every
diocese is divided into several archdeaconries They are appointed by the bishop and wear gaiters They supervise church buildings and the admission of churchwardens, and hold courts

Archer Small fish, found round the coasts of the East Indies and Australia It is so called because it can squirt drops of water at the insects on which it lives

Archer Frederick James English jockey
Jan 11 1857, rode his first winner at
Chestorfield in 1870, and had a wonderful,
although short, career for he shot himself at although short, career for he shot himself at Newmarket, when ill of typhoid fever Nov 8, 1886 From 1873 to 1885 Archer was at the top of the list of winning jockeys. Five times he rode a Dorby winner, altogether he won 2748 races

Archery The art of using the bow and arrow It was formerly used in hunting and in warfare, but to-day it is solely a pastime Archery began with the invention a pastime Archery began with the invention of the bow and was practised by the Egyptians There are many references to archers in the Bible and the Persians were noted for their skill We hear of Greeks and Romans, Arabs and Turks as noted archers.

Archery was the deciding factor in the battles of the Middle Ages, e.g Hastings and Crecy Despite the introduction of gunpowder archery flourished in England until the 16th

century, though mainly used in hunting Late in the 18th century archery revived in England as a sport. In 178 In 1781 the Reyal Toxophilite Society was founded, and in 1785 the Woodmen of Arden formed their society at Meriden The pastime is now controlled by the Grand National Archery Society, founded in 1861, with several meetings a year at which men and women shoot for championships There is a considerable literature on archery, an early book being the Toxophilus of Roger Ascham

The Royal Company of Archers is a body of Scottish noblemen and gentlemen founded in 1278. It is the avanction a bodymand of Scitter and Science and Scitter and Science and Scitter and Science and Scitter and Science and Scitter and Science and Scitter and Scit

1676 It is the sovereign s bodyguard for Scotland and membership is a coveted distinction.

Arches Court of English court of law of Canterbury and hears appeals from the or canteroury and nears appears from the lower courts in his province. It is presided over by a judge called the Dean of the Arches. Appeals from this court go to the Privy Council It is so called because the sittings are held in the church of S Mary le Bow, London

Archil Violet dve sometimes called orchil. It is obtained from several species of lichen which grow in warm climates It was discovered by a citizen of Florence and was much used until superseded by aniline dyes

Archimandrite Name used in the Greek church for the head of a monastery or group of monasteries Archimedes Greek mathematician He was born at Syracuse about 287 BC and there passed practically the whole of his life His discoveries and writings whole of his file his discovered and whiteher prove him to have been the greatest mathematician of antiquity. He made some engines to defend Syracuse against the Romans, but was killed in 212 BC when the city was taken

Archimedes discovered the use of the lever Archimedes discovered the use of the lever and invented the Archimedean screw for raising water He established the principle that a body plunged in a fluid loses as much of its weight as is equal to the weight of the displaced fluid His theoretical work related chiefly to the relations of spherical and rectilineal surfaces and bodies. His works have been translated into English

Archipelago Group of islands The Archipelago Group of islands The the Greeks to the islands in the Aegean Sea, and was afterwards used for other groups Archipelagoes are most common in the southern

part of the Pacific Ocean

Architect Person who plans buildings Architect and supervises their erection In olden times it meant a master builder In 1931 an Act, entitled 'The Architects' Registration Act, 1931, was passed, whereby a person possessing the prescribed qualifications may, upon application to the Architects' Registration Council of the United Kingdom, he admitted to the Register of Registered Architects, and thereupon is entitled to use the title Registered Architect." The Architects' Registration Council Offices are situated at 18, Abingdon Street, Westminster, London, S W 1 Training for the profession is provided in Great Britain in ten schools one controlled by the Architectural Association in London and others associated with Oxford, London, Liverpool and other universities Women are eligible for the profession on the same conditions as men.

Incorporated Society of Architects It gives every year a gold medal to a leading architect. It gives Its membership is about 8500 and there are probably 4000 architects in Great Britain outside it. There is a Royal Corporation of Architects in Scotland and a Royal Institute of Architects in Ireland at 8 Merrion Square,

Architecture Art of designing and constructing buildings Civil architecture is concerned with the bullding of houses, bridges, and other structures of ordinary utility, ecclesiastical deals with churches, and naval and military with the construction of ships and fortifications

respectively The beginnings of the art are seen in the primitive wattle huts of lake dwellings and other early communities, in the so-called cyclopean buildings of massive unwrought stone and in the sun-dried brick palaces of the Euphratean valley The early flat roofs with horizontal beams (trabcated style) gave place to the use of the arch (arcuated style), which from a rounded form in time became the pointed arch of Gothic architecture Greece the art reached its almost perfect development, the buildings showing symmetry of form, unity of design and correctness of outline, characteristics which have served as standards for later times development of Christian architecture the Byzantine and Romanesque to the Gothic and Renaissance style is a history in stone of the changing ideals and artistic conceptions in Europe

ARCHITECTURE AS A CAREER. tecture is a vocation which demands a keen appreciation of the beauty of structural form together with a strong creative ability.

Entry to the profession is gained by passing through the three examination stages of the Royal Institute of British Architects (See ARCHITECT) .

(1) Preliminary—Registration as Probationer R.I B A

(2) Intermediate Examination—Election as Student R I B A

(3) Final Examination—Election as Associate R.IBA

Exemption from the R.I B.A examinations may be gained by taking a course at one of the Schools of Architecture recognised for exemption from the examinations. The fees at these schools vary from 15 guineas to 72 guineas a year.

The schools recognised for exemption from the R.I B.A examinations are divided into two classes—those recognised up to the Intermediate stage only, and those recognised for both the Intermediate and Final stages The course at a school recognised for exemption from the Intermediate examination is generally of three years' duration, while that at a school recognised for exemption from both the Intermediate and Final examinations is generally of five years' duration.

A pamphlet giving full particulars to those desirous of entering the profession is issued by the R.I B.A., 9 Conduit Street, London, W. 1

The RIB.A offers Prizes and Studentships to a total value of about £3000 annually

The principal assistantships in the offices of practising architects carry attractive salaries, and many of the Government Departments employ architects and pay salaries ranging from £600 to £900 for senior posts, and £300 to £500 for lower appointments Large !

In 1925 the Royal Institute absorbed the municipalities also employ architects and pav the superintending architect as much as £1000 a year.

Architrave In architecture the stone beam carried by the capital of the columns and supporting the frieze above it. It is seen in classical archi-tecture but has no place in those forms in which the arch springs direct from the capital The word is sometimes used for the frame over a window or door

Archives Word used to and documents, official papers and documents, Word used for a collection of used also for the building in which they are kept. Each country has its archives. In Great Britain each department of state keeps its own, but there is a collection of the older ones in the Public Record Office in London

Arcot City of India It is 65 m from Madras on the river Palar, and is reached by railway North Arcot and South Arcot are two districts in the presidency of Madras

In 1751 the fort of Arcot, then the capital of the Carnati, was seized by Clive with a small force and resieged by the French, much more numerous than the defenders Clive beat off a series of att. cks and after seven weeks the siege was abandoned. It was taken by the French in 1758, but the British recovered it in 1760. After being in the hands of Hyder Ali it became British again in 1801.

Arctic Exploration This began when sailors, in the 15th century, started on the search for a NE and a NW passage to the Pacific, and the carliest discoveries of land in the Arctic were made by Frobisher, Hudson, Davis, Baffin, and others, whose names are recorded on the map For 200 years after the last of these men died work in the W area was confined to the discoveries in the Hudson Bay region made by Mackenzie and others, and in the E to the discoveries of Russians and

others intent on finding a way to the Pacific A new era began early in the 19th century when the British Government offered a prize for a further advance Ross, Parry and others not only rediscovered the lands found by the earlier navigators, but discovered others, till then entirely unknown In 1845 Sir John Ernellin went out with the Frenchis and the then entirely unknown In 1845 Sir John Franklin went out with the Erchus and the Terror on the voyage from which he never returned, and the expeditions which set out to find him resulted in valuable additions to the geography of the regions visited The exist-ence of the NW passage to the Pacific was proved and a little later, in 1878-79, Norden-skield sailed through the NE passage skiold sailed through the NE passage British, American Russian and Scandinavian explorers vied with each other in their efforts to find further land, and by the end of the century the Arctic regions had been mapped out with considerable, though not absolute, accuracy, and much valuable information about their geology, climate, resources, etc obtained The most important in the 20th century corrected the prevailing idea about the size and shape of Greenland

and shape of Greenland

But in 1900 the pole had not been reached
One by one, in the 19th century, explorers had
approached nearer their goal, e.g the Americans, Greely and Lockwood in 1881-84 when
83° 24' was reached. In 1893 Nansen had
left the Fram and made a dash for the pole
but this failed, in 1897 Andrée had tried to
reach it by balloon, but lost his life and his
traces were only discovered in 1930

The pole was actually reached on April 6, 1909, by Robert E Peary, who, for some years, had been exploring in the Arctic In 1926 Roold Amundsen flew over the pole, as did the American Richard E Byrd, and two years later Sir G H Wilkins Amundsen, who had the honour of being the first to traverse the NW passago, also voyaged through the long record of Arctic exploration is the one that beful the Italian alrship expedition under General Nobile in 1928, in a voyage to find his old comrade Amundsen lost his life Further expeditions are (1936) in progress, eg, the Soviet Sadko Expedition, which made a world record in navigation by reaching latitude 82 7°N

Arctic Ocean One of the world's five the waters round the North Pole and includes the Barents, White, and Kara Seas It is connected by Davis Strait and otler openings with the Atlantic, and by Berle's Strait with the Pacific The ocean is some mes regarded as the area within the arctic circle, ie the polar region onclosed by a line of latitude 234 degrees from the Nortl Pole, but it is generally assumed to be somewhat larger, its area being placed at omething between 5,000,000 and 6,000,000 sq m The chief islands in the area are Greenland, Soitsbergen, Novala Zemlya, Wrangell Island, Banks Land, Ellesmere Land, and others

Ardee Market town of Co Louth, Irish on the GN of Iroland Rly The chief bullding is the old castle now used for public purposes Pop 1700

Arden District in N Warwickshire, at one area The name is borne by some of the villages, eg, Henley in Arden Shakespeare describes the forest in As You Like It

Ardennes Range of hills in France and Belgium, extending into Luxembourg It is on either side of the Meuse and is part of an old forest famed for its wild boars

Ardnamurchan Point, or headland of Argyllshire, the most westernly point of the Scottish mainland It has a lighthouse, and names a large tract of country, mostly deer forest.

Ardrossan Scaport, burgh and watering place of Ayrshire 30 m from Glasgow, on the L M S Rly There is a good harbour and the chief industries are shipping and fishing From here steamers go to Belfast, Arran, and elsewhere Pop (1931) 6888

Ardsley Urban district of Yorkshire (W.R.), 4 m from Wakefield and consists of East and West Ardsley The industries are coal mining and woollen manufactures Pop (1931) 9215

Areca Gonus of palm trees, grown in the tropical parts of Asia Areca catechu is grown for its seeds which are known as betel nuts See Bettel Nutr

Areopagus Hill at Athens, W of the Areopagus Acropolis, also the council of elders that met thereon, in the temple of Ares The powers of this governing body were first cartailed by the law giver, Solon S Paul addressed the men of Athens on the Areopagus or Mars Hill (Acts xvii)

Ares Greek god of war He is represented both as a headless man and as a beardless youth He was the son of Zeus and Hera and is identified with the Roman god Mars

Arethusa In Greek legend a nymph was seen by the river god, Alpheus As he followed her she begged Artemis to change her into a fountain

A light cruiser called the Archusa took part the naval operations of the Great War until destroyed by a mine in the North Sea on Feb 14 1916 A training ship for seamon moored off Greenhithe in the Thames is called the Archusa

Argal1 Variety of wild sheep found on the steppes of Siberia and other parts of Asia It is about the size of a donkey and has fine branching horns In colour it is pale brown with a white face

Argentina Republic of South America On the E it has a coastline on the Atlantic Ocean and on the W the Andes separate it from Chile Its other boundaries are Paraguay, Uruguay, Bolivia and Brazil Stretching for 2800 m N to S it consists of a vast area covering 1,079,965 sq m The S part is known as Patagonia. Buenos Aires is the capital, lessor cities are Rosario, Cordoba and La Plata. In the NE are many fertile valleys and in the centre and S are the plains called pampas The country is mountainous and well watered, its chief rivers are the La Plata, Parana, Uruguay, Rio Negro and Chubut. The climate is temperate, save in the S where it is very hot Pop (1932)

Agriculture is the country's main industry Cattle are reared in immense numbers and the beef and mutton are chilled for export. Wheat and malze are exported, also hides, wool and butter, and wine is produced. The minerals minc. I include bold, coal, tin and copper. There is much oil the wells having become national property in 1933. There is a good railway system and good roads air services have been established.

Argentina is a federation governed by a president and a cabinet. The legislature is the congress of two houses, the senate of 30 members and the chamber of deputies, who are elected for four years. The constitution, modelled on that of the United States, was drawn up in 1853 and has since been amended Each of the four provinces has its own legis lature. The official religion is Roman Catholicism. Education is compulsory and, in its elementary stages, free. The army is recruited by compulsory service, and there is a small air force. The republic has a state bank. The funit of currency is the pose, divided into 100 centavos, and worth about 4s. The metric system of weights and measures is compulsory. HISTORY. The country was first visited by the Spaniards in 1516 and a little later.

by the Spaniards in 1516 and a little later they founded a settlement at Ascension For nearly 300 years it remained a Spanish possession. In 1776 Buenos Aircs was made the capital of the vast region that included Paraguay, Bolivia and Uruguay, and in 1806 it was besieged by the English In 1810, when Joseph Bonaparte was King of Spain, Argentina took the first steps towards independence A war followed in which the Spaniards were beaten and a dictator gained authority, but it was not until 1842 that Spain recognised the country's Independence These early years were marked

by continual civil wars and wars with neigh-bouring republics, and in 1838-42 with France. Towards the close of the 18th century. Argentina entered upon a more peaceful and prosperous period. Europe offered an immense market for its products and wealth rapidly increased This continued almost until the Great War when Argentina was neutral In the direction of affairs the leading figure was Hippolito Irigoyen, who became president in Hippolito Irigoyen, who became president in 1916. He carried out a number of reforms to improve the condition of the workers and refused to admit any kind of interference in South America on the part of the United States. He was re-elected in 1922-28, but in 1930 a revolution put an end to his term of

office. Augustin Justo became president in 1932

Argentite One of the commonest ores
of silver also called silver
glonce It consists of silver sulphide and
contains about 87 per cent of the metal It is a soft, blackish-grev fusible mineral which is soluble in nitric acid and usually occurs in massive form or as small cubes resembling galena or lead sulphide Its sectile character serves to distinguish it from galena or similar minerals Argentite is found in Cornwall, Norvay, Mexico, Chile, Peru and other localities

Argives Word used by Homer for the Greeks Strictly it only refers to the inhabitants of the Greek city, Argos(q v)

Argol Crust of impure cream of tartar or acid tartrate of potassium. It is deposited in wine casks or vats during the fermentation of the grape juice. It is a fine crystalline powder varying in colour from crystalline powder, varying in colour from whitish to brown or red according to the kind of wine from which it is derived From argol is prepared commercial cream of tartar, tartaric acid and Rochelle salts. It is ex-ported from Portugal, Messina and Bologna

Argon Colourless, inodorous gas characterised by its inertness or inability to combine with other elements. It is a constituent of the atmosphere to the extent of about 1 per cent, and was discovered by Lord Rayleigh in 1894 It was noticed that nitrogen obtained from the air was heavier than when prepared in other ways, and this discrepancy led to the discovery of argon. It is used instead of nitrogen for filling tungsten electric balls.

Argonaut Family of cephalopodic mol-luses known also as cuttle fish. They are found in the warm seas of Asia and one species in the Mediterranean. The male is smaller than the female, which has a beautiful translucent shell in which the eggs are kent. See Curry Figure 1999. kept. See Currle Fish

Argonauts In Greek legend the men to fetch the golden fleece Their leader was Jason and the fleece was at Colchis on the Black Sea They set out from Iolcus in Thessaly to which they eventually returned with the prize See Jason

Argonne Wooded region in France It lies between Toul and Mézières

and covers some 300 sq m in the departments of the Ardennes and Meuse

There was a good deal of fighting in this region during the Great War owing to its nearness to Verdun In the summer of 1918 the

Argos City of Greece In the S it is a railway junction on the line to Corinth Pop 10,000

The ancient city was one of the oldest and

most famous in Greece, the capital of a kingdom, and carried on wars with Sparta and other neighbouring states. Its importance is proved by the fact that the Greeks were called Argives.

Argosy Any ship laden with goods or from Argo, the ship in which Jason and his companions carried the golden fleece

Argus In Greek legend a male being with 100 eves Of these only two slept at the same time Hera made him guardian of the helfer Io, but Hermes, having soothed him to sleep with his lvre, managed to steal the animal for Zeus Hera then put his eves on the tail of a peacock The dog of Ulvsses was also named Argus He fell dead from joy when his master returned from his wanderings On account of its associations with vigilance On account of its associations with vigilance the word argus is sometimes used for a news paper, eg, The Melbourne Argus

Argyll Duke of Scottish title borne by the family of Campbell About 1400 Duncan Campbell of Lochow was made a lord of parliament and in 1457 his grandson, Colin, was made Earl of Argyll He and later earls were prominent in the life of their time one being Archibald, the 2nd earl, who was killed at Flodden

Archibald, 8th Earl of Argyll, made a marquess in 1641, was prominent during the civil war He was a leader of the covenanters but after the execution of Charles I supported Charles II, whom he afterwards deserted In May, 1661, he was executed for treason His son, Archibald, the 9th earl, was executed for taking part in the rehellion of the executed for taking part in the rebellion of the Duke of Monmouth in 1685. The estates were recovered in 1689 by Archibald, the 10th earl

who, in 1701, was made a duke

John, the 2nd duke, was made Duke of
Greenwich, a title which died with him John, Greenwich, a title which died with him John, the 5th duke, married the beauty, Elizabeth Gunning More famous, however, was George Douglas, the 8th duke, born April 30, 1823 A Liberal politician he was Lord Privy Seal, 1853-55, and again, 1859-66, Postmaster General, 1855-58, and Secretary for India, 1868-74 In 1880-81 he was again Lord Privy Seal He died April 24, 1900

John Douglas Sutherland Campbell, who became the 9th duke, married Louise, daughter of Queen Victoria He was an MP, 1868-78 and 1895-1900 From 1878-83 he was Governor-General of Canada, being then known as the

General of Canada, being then known as the Marquess of Lorne He died Nov 2, 1914, when a nephew, Niail Diarmid, became the 10th duke The duke has large estates in Argylshire where is his seat, Inveraray Castle His eldest son is called the Marquess of Lorne, and he holds several high but now honorar. and he holds several high, but now honorary offices in Scotland

Argyllshire County of Scotland. It is cludes a large number of islands The coast-line is a large number of islands. line is very much indented, being altogether nearly 2300 m. long, and the interior moun-tainous Ben Cruachan and several other peaks exceed 3000 ft. in height. The county There was a good deal of fighting in this region during the Great War owing to its nearness to Verdun In the summer of 1918 the French began the task of clearing the Germans from the Argonne, and this was completed just before the armistice. Criman Canal The Awe and the Orchy are the chief rivers Inverarry is the county town, other places are Oban Dunoon, Campbeltown and Lochgilphead The industries include the rearing of sheep and cattle, but the soll is very unfertile and much of the land is occupied by deer forcests Slate and coal are mined to a small extent and there are salmon and other itsheries The county has long been the home of the Campbells It sends one member to Parliament Its area is 3213 sq m Pop (1931), 63,014

The Argyll and Sutherland Highlanders, formerly the 91st and 93rd regiments of foot, are associated with the county The former was raised in Argylishire in 1794 The Lpiscopal Church of Scotland has a Bishop of

Argyll and the Isles

Ariadne In Greek legend the daughter of showed Theseus how to escape from the labyrinth of the monster by the help of a thread The two then went to Naxos There Theseus deserted Ariadne, but she soon found a husband in Dlonyslus who placed her among the stars

Arianism Belief that Jesus Christ is not the equal of God the Father It is thus opposed to the orthodox Christian belief in the Trinity of three equal personages Arianism was first preached by Arlus, a priest who lived at Alexandria in the 4th century It was denounced at the Council of Niraea in 325, and was explicitly condemned in the Athanasian creed It took root, however, among the Goths and other converts to Christianity, but after a time disappeared. It reappeared later as Unitarianism

Ariosto Lodovico Italian poet. Born of a rich man, he studied law at Bologna. In 1504 he entered the service of the Este family, wherein he remained for the rest of his life He died June 6, 1533, and was buried at Ferrara.

Ariosto's great poem is Orlando Furioso, an opic of the age of romance and chivalry

Aristides Greek statesman He was and served in the army against the Persians. He became known as an opponent of Themis tocles and, as a result, the people decided in 483, by vote, to expel or ostracise him Nevertheless, he took part in the war against Persia when it was renowed fought at Salamis and commanded the Athenians at Plataea. He organised the Delian League, and in 477 was responsible for the change by which any citizen of Athens could become an archon Aristides who was called the Just, died in 468 or 467

Aristocracy Word meaning, in its by the best men It was one of the three forms of government described by Aristotle as good To day the word is loosely used for a superior class, superior by birth, or position

Aristophanes Greek dramatist He probably at Athens Little is known of his life except that he had three sons and died in 385 Aristophanes ranks as the world's greatest comic dramatist. He wrote 54 plays, but only 11 are extant. The best known are The Knights, The Clouds, The Wasps, The Birds and The Frogs All have been translated into English.

Aristotle Greek philosopher He was born in 384 BC at Stagira in Macedonia, and is sometimes called the Stagirte His father, Nicomachus, was physician to the King of Macedon, and he himself studied that art In 367 he went to Athens to complete his education, and there he remained for 20 vears, much of his time being spent with Plato, whose greatest pupil he was On Plato's death in 347 BC, he left Athens and went to the court of a prince in Mysla where he married his patron's niece, Pythias

About 343 Aristotle was invited to Macedon by King Philip to supervise the education of his son Alexander He renatured there until Alexander became king, and in 335 returned to Athens There, following the example of Plato he founded a school called the Peripatos (covered walk) In 323 B C he left the city for Chalcis in Euboea There he

died in 322

Probably the greatest thinker who has ever lived, certainly possessing one of the world's supreme intellects and rightly called 'the master of those who know,' Aristotle has exer clsed a great influence on Furopean thought

Some of Aristotle's writings are contained in a volume called Organon, in which he discusses and expounds his ideas on logic, ethics, polities and philosophy Aristotle does not accept the belief of Plato that ideas are everything Instead he expounds a philosophy in which the real and the ideal are harmoniously blended Of the other parts of the Organon, the Poluties is the basis of nearly all modern political philosophy, the Ethics is a treatise on the Greek idea of virtue, the Poetus Inid the foundation of modern aesthetics, and gave logic the form it has retained for 2000 years. There are many English translations of his works Besides the Organon his extant works include The History of Animals, On the Parts of Animals and On the Generation of Animals In 1891 another writing, The Constitution of athers was published De Anima (Concerning the Spirit), is a work of the highest value

Arizona state of the United States In the south west of the country, it covers 113,956 sq m and is almost square Its natural features are the Colorado River, with its famous canyons and extensive deserts. Much of the land is a plateau over 5000 ft in height, and the highest point is nearly 13,000 ft The soil is not fortile, although irrigation has improved its quality Cattle and sheep are reared, but the chief products are minerals, chiefly copper and sliver Pheenix is the capital Arizona is governed by a legislature of two houses and sends one representative and two senators to Congress Pop (1930) 435,573

Ark Large vessel Two arks are mentioned in the Bible One was the vessel built by Noah (Gen vi 14) It was 300 cubits (400 ft) long, smeared with pitch and consisted of three storeys, with a flat bottom

The other ark was the receptacle in which

The other ark was the receptacle in which the Israelites in their wanderings kept their sacred treasures It contained the two tables of the law and was placed in the Tabernacle It was taken by the Philistines (1 Sam iv 7), but they returned it, and it was placed in Solomon s temple at Jerusalem

Arkansas Southern state of the USA shilly in the N and W and the soil is fertile. The chief rivers are the Mississippi, Arkansas

and Red Little Rock is the capital The main, of the law The human arm is divided into the

Arklow Seaport of Wicklow, Irish Free State It stands on the Avoca, 49 m from Dublin, on the Gt. S Rlys It is a fishing port and has ovster peds, while from here copper and lead are shipped. There is a factory for the manufacture of explosives Pop 5042

Arkwright Sir Richard English in-Dec. 23, 1732, he became a barber and opened a shop in Bolton He also dealt in human hair and travelled about for the purpose of buying it His attention was attracted by the primitive appliances used for spinning cotton, and with John Kav, he invented a spinning frame He began to work this at Preston but popular receiling was against him and he moved to Nottingham where he opened a factory for spinning cotton In 1771 he joined with Jedediah Strutt in opening a factory at Cromford where water power was used, and this became a prosperous business. He was involved in expensive law suits to protect his natents, vilile in 1779 his mill at Chorlev was burned down, the cry being put about that the inventions reduced the demand for labour. Arkwright bowever continued his labour Arkwright, however, continued his improvements and was one of the first to use steam power in the factory. In 1786 he was highted He died Aug 3, 1792

Arles Town of France It stands on the Rhone, 53 m from Marseilles The industries include a little shipping, but its interest is chiefly historical Its Roman remains are remarkably fine, especially those of the amphitheatre Other remains are of the forum, palace, baths and aqueduct Arles became the capital of a little Roman kingdom its history was the primate of Gaul and its bishop was the primate of Gaul and several church councils were held there Pop 3000

Arlington Earl of English politician Henry Bennet was born at Arlington, Middlesex, in 1618, and was educated at Westminster School and Christ Church, Oxford He fought for the king during the civil war and later served the exiled Charles II as agent in Madrid. In 1662 he was made Secretary of State and become a recorder. made Secretary of State and became a member of the group called the cabal Carrying out the policy of Charles II to dispense with Parliament, he retained that office until 1675 when he was impeached, but the case against him failed as impeached, but the case against him failed He then became Lord Chamberlain, but his political career was over but his political career was over In 1663 Bennet was made a baron, and in 1672 an earl He died at Euston, Suffolk, July 28, 1685

Arliss George English actor Born in London, April 16, 1868, he first appeared on the stage in London in 1887. In 1901 he went to the United States, where he made his reputation, and remained for the next 30 years. His successes include parts in The Darling of the Gods and The Green Goddess Later he turned to the films and won great fame in the name-parts of Disracli, The Iron Duke. Richelien, etc. The Iron Duke, Ruchelieu, etc

Name given to the two upper limbs in man, and by analogy to a branch Arm

products are cotton, wheat, maize and fruit.

Much timber is cut and coal and other minerals are mined. It is governed by a legislature of two houses and sends two senators and seven representatives to Congress. Arkansas became a state in 1836. Pop. (1930) 1,854,482

Arklow.

Seaport of Wicklow, Irish Free

Arklow. used to raise the arm

Armada Spanish word for an armed Armada Spanish word for an armed force. It is specially used for the fleet that was sent by Phillip II of Spain to invade England in 1588 About 130 vessels left Cadiz on July 12, carrying, in addition to the sailors, about 20,000 soldiers

To defend England a fleet under Lord Howard of Effingham put to sea from Plymouth on July 19 The Spinish plan was to reach the Netherlands via the English Channel and take on board an army there under the Duke of Parma They were attacked by the English ships most of them much by the English ships most of them much smaller than the great Spanish ones which were damaged in the fight. The Spanish ships reached Calais Roads on July 27, when they were further damaged by fireships. To escape these they put to sea, but were followed by the English, who sank or cantured a number of the search of the se English, who sank, or captured a number in a fight off Gravelines The Spaniards then decided to make for home by rounding Scotland and on the journey a gale made further havoc among the battered vessels Many were

wrecked and only 53 reached Spain

Armadale Burgn of West Lothian It is 21 m from Edinburgh on the LNE Rly It is a centre for the mining of coal and inorstone and has chemical works.

orks Pop (1931) 4854 Another Armadale is a village in Skye third Armadale is a village in Sutherlandshire.

24 m from Thurso

Armadillo Mammal found in South family dasypus, and is so named because its body is protected by bones and scales which form two shields not unlike armour The head and limbs are also protected and the animal can curl itself up like a hedgehog Its strong claws are used for hypersyling in the ground and it foods are used for burrowing in the ground and it feeds on snakes, snails, beetles and other insects, and sometimes on carrion. The grant armidillo measures as much as 3 ft., but the "fairy only 6 in

Armageddon Name used in the Book of Revelation (ch xvi) for the last great battle between the forces of

good and evil.

Armagh City and market town of Co Armagh, Northern Ireland, also the county town It is 89 m from Dublin It is chiefly known as an ecclesiastical centre, and from the based of the Anglicen are. and from it the heads of the Anglican and Roman Catholic churches in Ireland take the

Roman Catholic churches in Ireland take the title of archbishop Armagh was the ecclesiastical metropolis of Ireland and a noted scat of learning early in the Middle Ages The weaving of linen is the chief industry Pop 7350

Armagh County of Northern Ireland. In the province of Ulster it covers the province of Ulster it covers is fertile, and wheat, oats and potatoes are grown The Bann, the Blackwater and the Newry are the chief rivers, and Lough Neagh is partly in the county Armagh is the county town, other places are Lurgan, Portadown and Bessbrook. Pop (1926) 110,070

Armaments Term used for all the armed forces of a country, naval, military and air. Since the Great War

of anything, as an arm of the sea or an arm naval, military and air. Since the Great War

Army Corps Unit of a modern army divisions of infantry with the necessary auxiliaries of artillery, engineers, etc, and usually numbers 30,000 or 40,000 men. It is commanded by a lieutenant general. In the Great War Britain had over 20 army corps in the field. In France and Germany, before 1918, the country was divided into districts, each of which had its own army corps.

Army Council Body responsible for the control of the British Army The president is the Secretary of State for War and there are five other members These are the Financial Secretary to the War Office and four soldiers, the chief of the Imperial General Staff, the Adjutant General, the Quartarmaster General and the Master General of the Ordnance The offices are in Whiteball, London, 8 W

Army Medical Corps Royal Unit of the British Army It is reponsible for the health of the troops and for the care of the sick and wounded in time of war It sprang sick and wounded in time of war It sprang from the Army Hospital Corps founded at the time of the Crimean War and dates from \$73 It was reorganised after the South Aftican War of 1899 1902 Its motto is In ardius fidelis, and its badge is a wreath surmounted by a crown with the rod of Aesculaplus, with a serpent entwined within it. It is under the director of medical services and has hospitals at Alderbot Woolrich and elsewhere. The at Aldershot, Woolwich and elsewhere The Territorial Army has a branch of the service and there are allied corps in Canada, Australia, New Zealand and South Africa. There is also an Indian Medical Service

The Corps has a college in Grosvenor Road, London, SW 1 Men who have obtained a degree enabling them to practise medicine are admitted to it after a competitive examina are admitted to it after a competitive examination. After a course there they pass to the training establishment at Aldershot. During this time they are commissioned officers on probation, on passing the final examination their commissions are confirmed. The uniform

of the corps is blue

rmy Ordnance Corps Royal Unit rmy Ordnance Corps Unit of the British Army In its present form it was organised in 1881, but there was providedly a board of ordnance, this having been established in 1450. It was responsible for supplying the forces with artillery and for the equipment of the engineers, but as time went on other dutles were added. It is now responsible for supplying the troops, not only with manitions of war, but also with clothing and other necessaries. The headquarters of the corps are at Woolwich and there are depots at Aldershot and other camps. It is under the Master General of the Ordnance and there is a school of instruction at Cosham. The badge is a shield bearing three cannon balls in a row above three cannon one above the other. The motto is sua tela tontant; the uniform is blue. The corps is organised in companies and the Territorial Army has a branch. branch

Army Pay Corps Royal Branch of the regular army responsible for paying the troops Its headquarters are in Whitehall, London and it has branches wherever the units of the army are stationed Officers of the regular army and clerks form the personnel. Its motto is fide

et fiducia.

Army Service Corps Royal Depart ment of the British Army It is responsible for supplying the army with food, clothing and stores, but not munitions, and also for transporting them from place to place It took its present form in 1888 and during the Great War the number in its ranks exceeded 300,000 There are still a few horse transport companies, but most of the work is done by mechanical transport The headquarters are at Deptford. and there are supply companies at Aldershot, Woolwich and other military stations The uniform is blue and the facings white The duties include the driving and care of motor vehicles and there is a driving school at Feltham and a school for artificers at Aldershot There are allied corps in Canada, Australia, New Zealand and South Africa

Army Veterinary Corps
Royal Unit of the British Army It dates
from 1881 and looks after the horses of the
army The depot is at Woolwich and the school at Aldershot

Arne Thomas Augustine English musician. Born in London March 12, 1710 and educated at Eton, he studied music and became a skilled violinist. His opera Rosamund was produced in 1733 Tom Thumb was a comic opera and he also wrote two oratolios Abel and Judith Arne's high reputation rests rather upon the music he composed for Shakespeare's songs, for Rule Britan na and for Milton's Comus He died in London, March 5 1778 5 1778

Arnica Genus of plants found in Europe They belong to the order compositae Arnica montana, which grows in the Alpa, contains an oil from which tincture of arnica is obtained

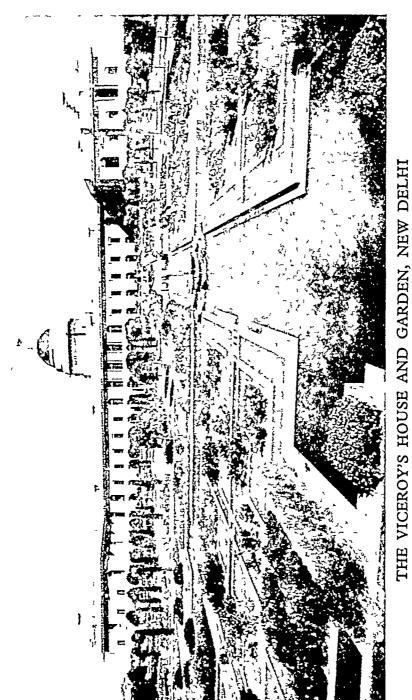
Arno River of Italy It rises in the Apennines and flows across the country, S and then W until it falls into the sea near Pisa. It is 130 m long and on it stands the city of Florence

Arnold Urban district and market town of Nottinghamshire It is 4 m from Nottingham The industries are the making of hostery and lace Pop (1931) 14,470

Arnold Matthew English author A son of Thomas Arnold (qv), he was born at Laleham, Dec 24, 1822, and educated at Winchester, Rugby and Balliol College Oxford He won the Newdigate prize for a poem and was chosen fellow of Oriel College a poem and was chosen tenow of Oriel College
He was an inspector of schools from 1851
until 1883 From 1857 to 1867 he was professor
of poetry at Oxford. He died at Liverpool,
April 15, 1888
Arnold is best known as a poet and a critic

Arnold is best known as a poet and a critic Influenced by Wordsworth he wrote a good deal of poetry, much of it of high value Some of his most notable pieces are Thyrsis, The Scholar Grpsy, Sohrab and Rustum, Rugby Chapel and Requiescal. He was also a master of the sonnet. As a critic he showed considerable powers and won renown by his denunciation of the uncultured life he called Philistinism His critical books include On Translating Homer Essays in Criticism, Culture and Anarchy and Literature and Dogma

Arnold Thomas English headmaster Horn at Cowes June 13, 1795, he was educated at Westminster Winchester and Corpus Christi College, Oxford, where he won prizes for classics He was elected a



fellow of Oriel College and was ordained, but, fellow of Oriel College and was ordained, but soon left Oxford In 1828, having had only a little experience of teaching by taking pupils into his house at Laleham, he was chosen headmaster of Ruchy School He reformed the school and left his mark on the public school system of England In 1841 he was made Professor of Modern History at Oxford died at Rugby, June 12, 1842 History of Rome and other books He wrote A

Pleasure resort of Switzerland Arosa is 19 m from Coir, high amid the pine woods, which makes it suitable for con-

sumptives

Arquebus Early kind of firearm It was invented in the 15th century when gunpowder made its use possible It resembled a small cannon, and was carried by the troops, although a rest was used when it was fired. It discharged a small stone, or it was fired It discharged a small stone, or leaden ball, fired by matchcord or tinder and was used by the infantry in the 16th century

Spirituous liquor It is made Arrack in India and adjacent regions from fermented rice, or molasses, flowers of the mahwa tree and other substances It contains

just over 50 per cent of alcohol

Arraignment In law the formal act of summoning a prisoner to the bar of the court to answer a charge It is done by calling out his name, telling him the nature of the charge against him and asking if he is guilty or not guilty. The chief assistant of the clerk of assize is called the clerk of arraigns

Arran Island of Scotland It is in the Firth of Clyde and covers 165 sq m There are harbours at Brodick and Lamlash. It is in the which are reached by steamer from Glasgow and elsewhere In the south the land is cultivated, but elsewhere the surface is mouncultivated, but elsewhere the surface is mountained and unfertile. The highest point is Goat Fell, 2860 ft high. In the island there are some beautiful glens and it is a popular pleasure resort. Much of the land belongs to the Duchess of Montrose, the heiress of the Ducke of Hamilton, her seat is Brodick Castle. The industries include sheep rearing, fishing and extering for holiday makers. and catering for holiday makers

and catering for holiday makers

The title of Earl of Arran is borne by the Duke of Hamilton In 1503 it was given to Thomas Hamilton, whose son, the 2nd earl, was Regent of Scotland for Mary, Queen of Scots, 1542-54 A later carl was made Duke of Hamilton There is an Irish title of Earl of Arran held since 1762 by the family of Gore Arras City of France It stand on the Scarpe, 28 m from Amiens and 120 from Paris It was at one time the capital of Artois. Most of the buildings are new since the Great War ea. the town hall, with its lofty

the Great War eq, the town hall, with its lofty beliry, a copy of the beautiful older one, the cathedral, the Abbey of S Vaast, the pre-fecture, the museum and the church of S Nicholas

The industries include a trade in corn and other agricultural produce and some manufactures. In the 16th century the town was amous for the tapestry which was known as

arras Robespierre was born here Pop 29,000 In Sept. 1914, Arras was entered by the Germans, who were soon forced to retire, but their lines remained quite close to the city In April, 1917, the British made a great attack called the Battle of Arras, but it failed in its objective The great German attack of March, 1918, was delivered in this area, but Arras remained untaken and in Sept. the advance

of the allies drove the enemy from the neighbourhood In 1932 a British war memorial was erected here

Restraining the Restraining the liberty of a person in order that he shall Arrest attend a court of justice to answer a charge against him By English law a person is usually arrested on a warrant. This must give the name of the person, as general or unnamed warrants are illegal A warrant must be signed by a magistrate or a judge of the high court and the arrest is carried out by the police

A police constable can arrest a person without a warrant if there is reason to suspect him or her of committing a felony or causing a breach of the peace. The arrested person must, without undue delay be charged with an offence and brought before a magistrate

Missile shot from a bow It is one of the oldest of weapons and Arrow was much used for hunting and fighting in very early times The arrow used by the English archers was made of a straight piece of hard wood, pointed at the end often with a piece of iron Flint was used in early times for this purpose At the other end were feathers which gave steadiness to the flight Savage tribes sometimes put poison into their arrows With the crossbow a heavier and more powerful arrow was used.

Arrowroot Starchy substance obtained from various plants. The true arrowroot is obtained from a perennial herb grown in the West Indies called maranta arundinacca Other arrowroot is obtained from a species of zamia and from various species of curcuma English arrowroot is obtained from potatoes and Portland arrowroot from the corms of the cuckoo pint.

Building used either for the Arsenal storage or manufacture of arms and ammunition The word means "a house of trade" These were called at first armouries of trade. These were called at ITSL armounes and then arsenals, one being the Tower of London Later, places where guns and ammunition were manufactured, were called arsenals, as they are to-day.

The chief British arsenal is at Woolwich, but there are others at Portsmouth, Plymouth and elsewhere. The arsenal at Venice is now

and elsowhere The arsenal at Venice is now a museum

Arsenal the association game English football club playing founded by employees of Woolwich Arsenal in 1886 and for some years had a ground there Before the Great War it was moved to Highbury in N London In 1927 it reached the final of the Association Cup which it won in 1930 in 1932 the Arsenal was defeated by Newcastle United in the final In 1934 and 1935 Arsonal was at the top of the League

Strictly speaking a chemical element. Its atomic weight is Arsenic 75 and the specific gravity of the vapour is The word is also used for arsenious oxide,

Arsenic proper has some of the qualities of a metal, but it does not form a base with oxygen It is found free in Siberia, Germany and the United States, but more abundantly with ores of cobalt, nickel, tin, iron, etc, and other metals and minerals. It darkens on exposure to the air and when roasted gives up an odour like garlic It is prepared by heating in earthenware tubes and is much used in the preparation of alloys

White Arsenic is produced by reasting the

The vapours pass through ore in a furnace long flues and then condense The result is a white powder which is the arsenic in ordinary use It is used in the preparation of aniline dyes, in the manufacture of pigments, as a weed-killer in the garden and for a sheep dip Arsenical soap is used by taxidermists Arsenic is also used in medicine, but only in small quantities and under medical direction. It acts as a tonic in nerve and other disorders. The best known preparation is Fowler's solution It is sometimes used externally as a caustic

Arsenic is a poison and its sale is strictly supervised Particulars of every sale made must be entered in a book by the chemist. The compounds are also very poisonous and for its detection there are certain recognised chemical

tests

Persons who work in the preparation of arsenic are liable to poisoning Powerful emetics and the stomach pump are the neces sary remedies Cases of persons being wilfully Powerful poisoned by doses of arsenio have been fally frequent, owing to its being a common ingredient of weed killers and insecticides

It is readily detected in the body after death

Arson In English law setting fire to a building or church, or other public edifice, with malicious intent, not accidentally It is a felony and the maximum punishment is penal servitude for life In Scotland arson is called "fire raising" In Scotland arson

Art Expression of the emotions and creative imagination in terms of line, form and colour, or in sound, gesture and rhythmic movement. Such a definition in cludes music, literature and drama, but art in a more restricted sense implies architecture,

sculpture, drawing and painting
Artistic expression in its primitive stages is
seen in the famous cave paintings of Altamira In Hellenic art sculpture at least reached its highest stage of perfection of technique, and decorative painting was at a high level Still later, the part played by religion in moulding artistic style is seen in Byzantine art, followed by a revival of classical ideals and activalized in the Italian Regularization of School naturalism in the Italian Renaissance School, while portraiture and genre painting reached its height in the Dutch school

its height in the Dutch school

The numerous art schools in London and
elsewhere afford instruction in art subjects,
and the Royal Academy and kindred societies
hold exhibitions, while the National Gallery
and other art collections afford opportunities
for the study of representative works In 1931
by the generosity of Mr S Courtauld, an
Institute of Art was opened in connection with
the University of London

the University of London

COMMERCIAL ART AS A CAREER To be a successful artist an unusual creative ability is necessary, together with adaptability, great patience and an extensive experience

Training at an art school costs anything from five guineas per session in the provincial schools up to thirty guineas at the vory best London Art Schools, and thirty guineas at the Royal College of Art. Most schools have a special Royal College of Art. Most schools have a special course in commercial or illustrative art, but it should be stressed that most of the knowledge that is of practical value when it comes to carning a living is gained only by experience Macazine illustrations, book jackets posters advortising illustrations and industrial designs are in greater demand than they have ever been All branches of the work offer abundant scope for everyone of creative ability, whilst

those of special appeal, such as the illustration of children's books, are practically in the hands of women

At the same time the standard of work has gone up and the competition between artists is keener than ever before The best way to sell work is to take specimens round to likely buyers yourself Advertising agents, consultants, and printers are pleased to see good work, and if a really good idea should present itself, try the advertisors personally

There are opportunities for clever artists in the large commercial studies, but here the individuality of the artist is apt to be sunk in that of the studio, although this is where valuable experience may be gained. Ad-vertising agents also employ artists with the right spirit, and a successful man may reach

£800 or over a year

Except to a few at the top, commercial art is not a profession that is well paid What the artist carns he earns by hard work and painful effort, and severe application is needed to make the career a success

For Art Teaching as a career, see under

TEACHING

Artemis Goddess of Greek legend The daughter of Zeus and Leto, she was the twin of Apollo She was a goddess of nature, but afterwards became the goddess of hunting, being represented with bow and arrows

Artemisia Queen of Halicarnassus She was the wife of Mausolus and after his death in 350 BC built a magnificent tomb called the mausoleum. An earlier queen of Halicarnassus, also Artemisia, fought on the side of the Persians at the battle of Salamis

Arter10-Sclerosis Disease characterised by the thickening and hardening of the coats of the arteries It may arise from excessive indulgence in alcohol, or from gout, while syphilis is also a cause To some extent it comes on with advancing years It may lead to death from heart disease, or appole from heart disease, or apoplexy

Artery (Gr aircin, to raise) Channel in the body which conveys blood from the heart to another part The walls of the artery consist of three coats, an external, a middle and an internal The main artery is the aorta which rises from the loft ventricle of the heart and by means of its branches conveys the blood to all parts of the body. The pulmonary artery rises from the right ventral of the heart and with its branches supplies impure blood to the lungs for purification. The arteries are subject to hardening, or arterio sclerosis and also to ancurism

## Artesian Well See WELL.

Artevelde Jacob Van Flemish poli1290, he was a brewer He led the Flemings
in a revolt against their count in 1337 and
was soon practically ruler of Flanders He
kept his power for about eight years, but in
July 24, 1345, he was killed during a tumult
Artevelde's son Philip van Artevelde, born
chout 1340 led the mon of Ghent in a revolt

Artevelde's son Finilp van Artevelde, Dornabout 1340, led the men of Ghent in a revolt against the count. Like his father he made himself ruler of the country, but in a short time he was defeated and killed in battle with the King of France, Charles VI This took place at Roosobeke, Nov 27, 1382

Arthritis Inflammation of the joints The variety known as rhoumatold arthritis, may be either acute or chronic. In the acute form the symptoms resemble those of rheumatic fever. The chronic form, which is much commoner, begins with pain and swelling in one of the joints. This is followed by deformities of the joints, which become stiff and deformities of the joints, which become stiff and symptoms guite useless. and the muscles week. sometimes quite useless, and the muscles waste

Established rheumatoid arthritis is regarded as incurable, but its progress can be arrested by careful dieting, suitable medicines and the use of mustard and other counter irritants Massage is also useful in keeping the joints supple and the waters of some of the English and other spas are efficacious

Arthropoda in Zoology a class of The word means jointed feet and the group includes insects, spiders and crustaceans, such as insects, spiders and crustaceans, such as shrimps and crabs, as well as millipedes and centipedes. The body is formed of rings and centipedes The body is formed of rings and like the limbs is covered with a horny skin The appendages, such as the jaws and feet, are in pairs See INSECT, SHRIMP, ETC

Arthur King of the Britons Very little is known about his life, in fact, he may be entirely a legendary figure According to one account he lived in the 6th century and was killed in battle

The Arthur of legend was a son of a king,

The Arthur of legend was a son of a king, Uther Pendragon He became a great warrior, conquered the heathen tribes around him and founded an order of Knights of the Round Table His capital was Camelot He married Guinevere, but she proved false to him The order was then broken up and the king mortally wounded in battle. He was carried to the ide wounded in battle He was carried to the isle of Avalon where he died It was long believed, however, that he would return His story is told by Geoffrey of Monmouth and other early chroniclers, but the chief source of the legends are in the writings of Sir Thomas Malory

Arthur Chester Alan American president He was born Oct. 5, 1830, became a lawyer and held an administrative position during the Civil War From 1871 to 1878 he was collector of customs at New York. As a republican he was elected vice-president in 1881 and very soon, the president, J A Garfield, having been murdered, he succeeded to the presidency His term ended in 1885 and he died in New York, Nov 18, 1886

Arthur's Seat Hill near Edinburgh ligh and overlooks the city, the view from the summit being one of remarkable beauty

Artichoke Edible vegetable There are globe artichoke and the Jerusalem artichoke
The Chinese artichoke is a variety of the
Jerusalem Both grow in English gardens,
but the Jerusalem is perhaps the more popular
The edible part of the globe artichoke is the
leaves of the Jerusalem the tybes leaves, of the Jerusalem, the tubers

Article Statement, or proposition, usually one of a series In religious matters examples are the 39 articles embodying the creed of the Church of England and the statute of six articles passed in 1539 In secular matters there are the articles of association which by English law every limited liability company must have These must be prepared before the company is registered and lay down the condition under which the company will

must be stamped.

Articles of war are the code of discipline for the British Army The first set dates from the 15th century, the present one from 1881.

Artificial Respiration A methous must be described as in cases of drowning, parcetic poisoning, the effects of noxions tumes. narcotic poisoning, the effects of noxious fumes, collapse, or the asphyxia of new-born children In Sylvester's method the patient is placed on his back on the floor and his arms raised above his head pulled forward and downward to expand and contract the chest alternately, but Schäfer's method is more generally adopted now as being more effective. The patient is laid face downwards with arms extended and the face turned to one side. The operator the face turned to one side kneels across the body, with the hands flat over the lowest ribs. He then throws the weight of his body slowly and gradually on to his hands, then raises his body slowly, removing the pressure, but without removing his hands This movement is repeated twelve times a minute without pause In s cases two hours' work may be necessary In severe

Artificial Silk Fibre resembling duced by machinery Its correct name is rayon. The idea of making a fibre of this kind was put forward in the 18th century, but it was not until 1886 that it was successfully produced.

Ravon is made by treating cellulose in solution so as to draw it out into fine threads.

This was first done at Beginson by Hillers.

This was first done at Besancon by Hilaire de Chardonnet in 1886 who discovered and used the nitro-cellulose process In this cotton, the raw material, is made into gun cotton, or nitro celiulose, which is dissolved in equal parts of ether and alcohol. The solution called collodion is forced through capillary tubes into water The product is dried and denitrated by treatment with an alkaline hydro-sulphide Another kind of artificial silk is called viscose In this the callulose is obtained from wood pulp

In this the cellulose is obtained from wood pulp and is treated with caustic soda to make an alkali collulose This is then united with carbon bisulphide to form viscose The viscose is then filtrated and congulated by heat, the threads being drawn out by a machine

Collulose is the softest of all these sliks and is least affected by water It is therefore used for fishing lines and as an insulator in electricity, as well as, like the other substances, for articles of clothing and household use. The world's output of artificial silk is estimated at about 215,000 tons There is a duty (1932-33) of 331 per cent on all imports of artificial silk into Great Britain

Artificer Name given to a rank in the British Navy They are engineers who enter the service after the age of 21 and serve in the engine room They become chief petty officers and can rise to warrant and even commissioned rank There are also artificers in the army and the air force

Artillery Name used for the guns employed in land warfare In England it dates from the 14th century and the Honourable Artillery Co was founded in the 16th, a sign that attention was pald to artillery, though it was very different from the artillery of to day. It was used in the wars work All interested in the company are entitled to a copy of the articles. The law provides a model set of articles which a company can adopt.

Other articles state the conditions under the invention of stronger and larger guns.

the two latter have been amalgamated. It now the two latter have been amalgamated. It now consists of a few brigades of horse artillery and much larger number of mechanical ones divided into field brigades, light brigades divided brigades and heavy brigades. A 20th medium brigades and heavy brigades. A 20th century development is the formation of anticraft brigades and there are Indian moun already brigades. The brigades are divided into batteries.

batteries
The school of artillery is at Larkhall on
Salisbury Plain and there is a school for coast
The head of the
artillery at Shoeburyness
The head of the artmery at Shoeburvness The head of the regiment is called the master gunner 600 000 Great War the regiment was over strong and its casualties over 135,000 of whom 35,000 were killed

Artois around Arras and before the Revolu tion was one of the provinces At one time it was ruled by the counts of Flanders and inter was part of Burgundy During the Great War there was a good deal of fighting in Artois especially in May and June, 1915, when the French directed a great attack in this area.

Arts Term used in the universities and the elsewhere for those the medieval study which are not scientific. The medieval enversities taking the idea from the Greeks universities taking the idea from the Greeks to universities and their degrees were called study arts, and their degrees were called masters and bachelors of arts.

Arts, which includes the classical and other

masters and pacactors of arts

Arts, which includes the classical and other
languages is still the chief branch of learning
the most universities, but many other subjects
at most universities, and degrees are given in at most universities, but many other subjects have been added and degrees are given in medicine, commerce, etc The studies are divided into faculties, the oldest of which is

Arundel Borough of Susset It stands Arundel above the Arun 58 m from London and 10 from Chichester on the S Rh Apart from the eastle the chief buildings are Apart from Catholic Cathedral The town has parish church of S Nicholas Pop (1931) 2489 an agricultural trade pop (1931) 2489

Arundel Castle, the seat of the Duke of Norfolk, occupies the site of one built in the 10th century This was destreved during the 10th century This was destroyed during the civil war, but was restored in the 18th century is a magnificent building in the baronial ties a magnificent building in the baronial style, one of the finest in the land. The keep style, one of the 10th century Around is a dates from the 10th century Around is a dates from the 10th century around is a park over 1100 acres in extent.

Arundel Earl of English title the Arundel oldest of its kind in the peerage There were earls of Arundel in the 12th century Fitzalans died out in 1550 and their lands were pleasure. It is usually done for religious motives inherited by a grandson of the last curl philip by those who believe that the material body formally given to the Howards and since 1660 of human nature.

A secticism has been practised in many acceptable by the dukes of Norfolk has been below the dukes of Norfolk has been processed the dukes of Norfolk has been below the dukes of Norfol nere were ears of Arunder in the 12th century and with the castle the title passed in the 13th century to the family of Fitzalan The Fitzalans died out in 1550 and their lands were laborated by a granden of the last continued in the state of the st

more devastating missiles and more powerful more devastating missiles to its importance propellants added vastly to its importance of the artillery of the British Army is organised of the artillery meth headquarters at Woolwich it is a single regiment, the Roval Regiment of the assingle regiment, and the state of the race was around the upper vaters of the race was around the upper vaters

Asa he is known for the vigorous measures he took against idolatry and for his wars.

(1 Kings V, 2 Chron xlv vi)

Asbestos Mineral belonging to the horn Mineral belonging to the horn all y fibrous character more or less incom bustible with low electrical and thermal con ductivity. The term however is more widely position but possessing similar characters, position but possessing similar characters, and the commercial ashestos is a form of the commercial position but possessing similar characters, position for commercial aspectos is a form of chrysotile a variety of scrpentine, but cape blue aspessos is a hornblendic mineral, oro

cadolite
Canada supplies most of the asbestos of
commerce with Rhods sia and South Africa
following in order of importance
flevible fibres are woven into fire proof fabrics,
flevible fibres are woven into fire proof fabrics,
flevible fibres and millipoord while the shorter fibres flexible fibres are woven into fire proof fabrics, ropes and millboard while the shorter fibres and waste form insulating material and cements and waste form insulating material and cements as so used in making paint and absentos is also used in the balls placed in gas fires. It is also used in textile factories is it resists corresive gas

Trov to Italy Tover the Latins

Longa and was named Julus

Ascension Final disappearance of Jesus Christ from the earth It took place 40 days after the Resurrection in the presence of the apostles who were assembled on Mt Ollvat It is described in the gospels of Mark and Luke and in the Acts of the Apostles

A Towards Island in the Atlantic Ocean

Ascension Island in the Atlantic Ocean Ascension It belongs to Great Britain and is used as a coaling station. About 700 miles to the north west of St. Helena, it covers 94 sq. m. The interior is mountainous. George than which has a barbour is the chief place. mues to the north wer is mountainous George 34 sq m. The interior is mountainous George town which has a harbour is the chief place. The island was discovered by the Portugueso on Ascension Day, 1501 and became British on Ascension Pay.

ASCETICISM Practice of enduring hard ASCETICISM ship and refraining from Pleasure It is usually done for religious motives that the material hadroner who believe that the material hadroner who hadrone

formally given to the Howards and since 1660 has been held by the dukes of Norfoll.

Aryan hame given to the race from which have sprung also to their language group have sprung also to their language group the Aryans are believed to bave lived originally on the borders of Europe and Asia, but scholars on the borders of Europe and Asia, but scholars on the borders of Europe and Asia, but scholars on the borders of Europe and Asia, but scholars on the borders of Europe and Asia, but scholars on the borders of Europe and Asia, but scholars on the borders of Europe and Asia, but scholars on the borders of Europe and Asia, but scholars on the borders of Europe and Asia, but scholars on the borders of Europe and Asia, but scholars on the borders of Europe and Asia, but scholars of Europe and Europ

With the growth of rationalism asceticism tended to decline and in the western world it has, in its extreme forms at least, disappeared Vestiges still persist, however in the observance of fast days in the Roman and other churches

Ascham Roger English scholar Born in Yorkshire in 1515, he was educated at Cambridge He became reader in Greek at S John's College and in 1548 was appointed tutor to the Princess Elizabeth He lived for a time at Augsburg, where he was scoretary to a diplomat, and then, returning to England, became secretary to Queen Mary and,

later Elizabeth He died Dec. 30, 1568
Ascham's fame rests on his writings, especially The Scholemaster, which give his ideas on education, Toxophilus, a book on archery, of which he was very fond, and A Report of the Affairs and State of Germany

Asche Oscar English actor Born at Gee-long Australia, Aug 26, 1872, he was educated at Melbourne Having studied acting at Oslo, he appeared on the stage in 1893 and played under F R. Benson and H B Tree He also toured in the United States, Australia and South Africa. In 1904 he became manager of the Adelphi theatre, London, and in 1907 of His Majesty's and then of the Globe He is best known as the producer of Chu Chin Chow, in which he played the title rôle He marned the actress Lily Brayton

Ascot Village of Berkshire It is 29 m on the Southern Riv It is famous for the race meeting, which is held here each June and is a great social function. This originated in 1711 The chief event of the meeting is the race for the gold cup

Asgard In Scandinavian mythology the home of the gods, or Aesir It was approached by the bridge called Bitrost In it the gods had a great hall with twelve seats and houses for themselves and the goddesses It contained also Valhalla, or the home of the heroes

Ash British tree (frascinus excelsior) It reaches a considerable size in meadows or open positions in woodlands It is a graceful tree with widespreading branches, thickly leaved It bears masses of minute flowers in early spring before the leaves appear. The flowers are succeeded by clusters of scales cach containing a seed. The wood is tough and clastic and is used for making oars, tool handles and other articles. Varieties of ash include the weeping ash and the mountain ash or rowan, which bears clusters of scarlet berries

Ashanti District of West Africa be longing to Great Britain It covers 24,379 sq m, and is part of the Gold Coast Colony The capital is Kumasi and the chief river the Volta Togoland lies to the east and French passessions to the west. The and French possessions to the west country possesses donse forests in which there is valuable timber Gold is mined and rubber and cocoa are grown, tobacco and bananas are other products Pop (1931), 578,702

The inhabitants, the Ashanti, are negroes who lived under a native ruler until 1896, when

the land became a British protectorate, was annexed in 1901

There have been several wars between the Ashantis and the British, the first in 1821-31, the second in 1874, when Kumasi was entered

one of its usual manifestations was abstinence and burned. The Ashanti then agreed to from food. It was a recognised part of the withdraw from the land they had invaded discipline of monastic life.

In 1896 a British force marched to Kumasi and made King Prempeh a prisoner

Ashbourne Market town and urban district of Derbyshire It is 13 m from Derby, near the River Dove, on the LMS Rly Ashbourne Hall has historic associations Around is some of the loveliest to the loveliest associations around is some of the loveliest associations. of the Derbyshire scenery Pop (1931) 4507

Ashburton Lord English title borne Alexander Baring was born in 1774, being a son of Sir Francis Baring From 1816 to 1835 he sat in the House of Commons as a Torv In 1834 he was President of the Board of Trade, and in 1842 he went to Washington where he arranged the treaty called after him This settled the boundary between Canada and the United States, and dealt with other matters United States, and dealt with other matters between the two countries About 12,000 sq m were ceded to the States Ashburton died May 13 1848

The Ashburton Shield is a prize for shooting, founded in 1861 by the 3rd Lord Ashburton It is shot for each year at Bisley by teams

from the public schools

Ashburton Market town and urban district of Devonshire It is 24 m from Plymouth, on the Gt Western Rly Until 1885 Ashburton was a stannary town Pop (1931) 2505 A town of New Zealand is called Ashburton

It is in South Island on the Ashburton River, and is a railway junction, 53 m from Christ-church Pop 2850

Ashby-de-la-Zouch Market town and urban district of Leicestershire It stands on the Mease, 21 m from Leicester and 118 from London, on the LMS Rly The chief object of interest is the ruined castle This is associated of interest is the rained cashie. This is associated with Ivanhoe and was later the scat of the Hastings family. The town has some mineral springs and baths, used by those suffering from rheumatism. Hosiery is manufactured, and around are coal mines. Pop. (1931) 5093

Ashdod City of the Philistines The modern Esdud, it lay between Gaza and Joppa, being 22 m from the latter town, on the road leading to Palestine and Egypt Here, in the temple of Gagon the Philistines placed the ark when they took it from the Israelites Ashdod was destroyed by the Maccebeer but was arbitled. from the Israelites Ashdod was destroyed by the Maccabees, but was rebuilt and became, as Azotus, a centre of Greek and then Roman culture It is mentioned in the New Testament

Ashdown Forest district in Sussex It weald and stretches for almost 5 m from Chelwood Gate to Crowborough Its area is Chelwood Gate to Crowborough about 14,000 acres

Ashdown Park, in Berkshire, is the seat of the Earl of Craven It is 3 m from Lambourne and is believed to be the Assandune where, in 871, Kind Ethelred and his brother Alfred defeated the Danes Near is the cave of Wayland the Smith

Ashes The Term which originated in 1882, when a burlesque obituary notice in the Sporting Times announced that the Ashes of English cricket were being taken to Australia This referred to Australia's first victory over England, 1882, mari ing the first serious challenge to England's cricket suppared. The Ashes came to Britain in 1932 remacy. The Ashes came to Britain in 1933

Ashfield Baron English business man Born in Derby in 1875, Albert Henry Stanley was a son of Henry Stanley who emigrated to the United States There who emigrated to the United States There young Stanley was educated and gained his experience of railway management. In 1910 he became managing director of the Under ground Railway of London, and during the next 23 years he was the head of the great combine of tram and road services that was formed round it In 1914 he was knighted, and in 1916 he joined the Ministry as President of the Board of Trade He retained office until 1919 when he was made a peer as Baron Ash 1919 when he was made a peer as Baron Ash field From 1916 19 Stanley was MP for Ashton under Lyne

Ashford Market town and urban district of Kent It is 14 m from Canter bury, on the Stour, and is an important junction on the S Rly The staple industries are railway shops, a cider factory and an agricultural trade Pop (1931) 15 239

Another Ashford is a village in Middlesex It is 2 m from Staines on the S Rly

Ashington Urban district of Northum Morpeth, on the LNE Rly It is a coal mining centre Pop (1931) 29,418

Ashmole Elias English antiquary Born he studied law He served the king during he studied law He served the king during the civil war, during which he also found time to study at Brasenose College, Oxford In 1660 he was appointed a herald to Charles II He died May 18, 1692

Ashmole wrote A History of the Order of the Garler and was interested in astrology He

Ashmole wrote A Instory of the Order of the Carler and was interested in astrology Ho is best remembered, however, because he presented in 1682 to the University of Oxford a collection of antiquities, out of which the Ashmolean Museum has developed Many additions were made to the original gift, and these were long housed in a building between High Street and Broad Street In 1893 94 a new building was creeted in Beaumont Street and in 1931 plans to enlarge this were put forward put forward

Ashridge Fstate in Hertfordshire It is grounds covered about 2200 acres and the present mansion was built carly in the 19th century When in 1921 the estate was sold some of it was bought for an outdoor xoological garden while the house and gardens were acquired by Mr U H Broughton and pre sented to the Unionist Party to serve as a training centre. This is called the Bonar Law College and there persons are trained as workers in the Unionist cause See Whiteshall

Ashtaroth City of Palestine The exact Old Testament (Deut i Joshua ix 12 13) it is mentioned as being the capital of Og, King of Bashan Ashtaroth is also a name given to the goddess Astart?

Ashtead Village of Surrey It is 16 m from London on the S Rly The industries include the making of pottery. The village has a large common on which a Roman villa was uncarthed in 1925

Ashton-in-Makerfield Urbandis and market town of Lancashire 4 m from Wigan on the LNE Rily There are cotton mills and manufactures of bardware and pottery Pop (1931) 20,541

Ashton-under-Lyne Borough and market town of Lancashire, on the Tame, which here separates Lancashire from Cheshire Its suburb of Dukinfield is in the latter county It is 6 m from Manchester, on the L MS Rly The industries include the making of cotton goods, silk fabrics and hats There are collicries near by Pop (1931) 51,573

Ash Wednesday First day of Lent. served in the Christian church since the 9th century, and owes its name to the use of assessin the services of the day. They are still used in the Roman Catholic church. In the Church of England the commination service is read at the services on this day

Ashwell Lena English actress She was born in 1872, the daughter of Commander Pocock R N She studied music, but in 1891 made her first appearance on the stage She soon made a reputation, her successes including parts in Mrs Dane's Defence, and The Darling of the Gods but she is perhaps better known as a manager In 1907 she opened the Kingsway Theatre, London which she controlled for over 20 years, and after the Great War she organised the Lena Ashwell Players who gave performances regularly in the London suburbs During the War, she acted as Hon Organiser of Concerts at the Front. She is the wife of Sir Henry Simson, the obstetric surgeon In 1929 she published her memoirs under the title of The Stage

Ashwell Village of Hertfordshire, 4 m from Baldock, on the L N E Rly Another Ashwell is a village in Rutlandshire known as a hunting centre

AS1a Largest, most populous and richest in natural resources of the world's continents. It covers 17,300,000 sq m Its greatest length from E to W is 6700 m and from N to S 5300. It is bounded by the Arctic Ocean on the N, the Pacific on the E, and Indian Ocean on the S On the west the Urals and the Caucasus divide it from Europe Other boundaries here are the Casplan, Red, and Mediterranean Seas. A narrow strip of land, the Isthmus of Suez, connects it with Africa in the N E, the narrow Bering Strait separates it from America

Asia is best described country by country,

Asia is best described country by country, as in this work, but certain general features may be noted It contains every variety of climate from the cold of the Arctic to the burning heat of the Malay Peninsula or the Arabian deserts In it are the loftlest mountains in the world the Himalevan peaks of well as the world, the Himalayan peaks, as well as the Altai, Karakoram and other great ranges. With immense tracts of fertile soll, it possesses yast deserts The Gobi, or Shamo, is equal in size to the Sahara, and there are many deserts in Arabia and Persia.

The rivers are worthy of the Continent. In India are the Ganges the Indus and the Brahmaputra, in China the Yang tse Kiang and the Hwang ho, in Indo-China the Mekong and the Salween, and in Burma the Irrawady The Obi, Yenlsel and Lena are in Siberia and in Iran are the Tioris and the Euphrates in Iraq are the Tigris and the Euphrates Others are the Amur once famous as the Oxus and the Amu Daria There are no great lakes

Asia is enormously rich in mineral wealth and produces foodstuffs such as rice and maize on a vast scale Tea, rubber and other tropical products are grown Trees and plants of every known kind abound. Lions, tigers, wolves, elephants and other wild animals still roam the

forests The

population of Asia is estimated at 850,000,000, chiefly Buddhists and Moham-medans. The three chief races are the Mongolians in the E, the Caucasians in the W., and the Malays The most populous areas are India and China, which together contain more than half the population of the Continent

Several European countries have territory in Asia Great Britain governs India, in which Burma is included, Ceylon and the Main; States, and has interests in Palestine, Arabia and Iraq France has possessions in Indo-China and interests in Syria Soviet Russia rules the great area known as Siberia, as well as some adjacent areas covering altogether 6,000,000 sq. m, or over a third of the Continent Unlike the British possessions, these lands are very thinly peopled The independent countries very tallify peopled. The independent countries include China, Japan, Persia, Afghanistan, and Siam. With these may be classed Tibet, Hejaz and Iraq, countries that sprang into existence as a result of the Great War, and Manchurla was declared independent in 1932. Scholars consider Asia as the cradle of the human race. The earliest civilisations had their human race to the arrival the Countries.

homes in the region around the Caspian Sea, and remains of others have been found in the central deserts Mesopotamia contained at an early date rich and powerful empires where culture reached a very high level, and the civilisations of India and China are among the closest in the world To Asia, also, the world

owes its great religious

Asiago Town of Italv It is a small place amid the mountains, 25 m from Vicenza In Nov 1917, after their success at Caporetto, the Austrians gained some successes here, the battle lasting till the end of December 17, 1918 the pacifical way attended by the In 1918 the position was strengthened by the arrival of British and French troops and when in June the Austrians made a further attack they were beaten back. The third battle of Asiago took place in October. The British took Asiago itself which had been lost in 1917, and with the other Allies draws back, the Austrians. with the other Allies drove back the Austrians

Asia Minor Name given to a peninsula forming the W end of the Continent of Asia It has the Mediterranean on the W. and S and the Black Sea to the N On the E it is linked to the mainland area Most of it forms the Republic of Turkey It is sometimes known as Anatolia. See Turkey It is District of Arabia It consists of a Asir District of Arabia It consists of a strip of land along the coast of the Red Sca, 180 m in breadth Although nominally subject to Turkey, it was for a long time practically independent. In 1926 it was conquered by the Wahhabi, Ibn Saud, and in 1930 became part of the kingdom of the Hejaz The soil is fertile. The capital is Sabia.

Askari African soldier Derived from an Arabic word meaning "army," it is used for native soldiers who are trained

and led by European officers

Askern Village of West Riding of York-shire, 6 m from Doncaster, on the LNE Rly. It is a populous mining centre, and there are works for carbonising the coal At one time the place was visited for its medicinal springs

Askwith Baron English publicist Born Askwith Was educated at Marlborough and Brasenose College, Oxford He became a barrister and practised successfully until 1907

when he was appointed an assistant secretary to the Board of Trade He was soon in charge of the department that dealt with labour disputes, and from 1911 until his retirement in 1919 he was Chief Industrial Commissioner In 1911 he was knighted, and in 1919 made a peer Lord Askwith has written much on the subject of trade disputes, of which he has an unrivalled experience

Asoka Emperor of India from 264 to 228 BC He was the grandson of Chandragupta, who had torn the Indian possessions of Alexander the Great from Scleucus A renowned Buddhist, he ruled over territory corresponding in size to Bullion territory corresponding in size to British India, without Burma, and was greatly revered He left behind many valuable inscriptions

Asp Poisonous snake of the viper family The word is also used for any poisonous snake, such as the horned snake that killed Cleopatra The asp proper, about 12 in long, is found in the countries around the Mediterranean

Asparagus Genus of plants of the hlaceae There are many species, one being widely cultivated as a table vegetable The common asparagus grows wild in many parts of Europe on the scashore, or on river banks, and is occasionally seen in Britain It contains a substance called asparagine, used by doctors as a diurctic and for its action on the urinary organs

Much asparagus is grown in France, where a good deal is forced in hothouses for the English and other markets Since 1931 this early crop must pay an import duty of 50 per cent on entering Great Britain Other varieties of asparagus are eaten in some countries, but the bitter asparagus, which resembles the common variety, is unfit for

food

Asparagus is usually served with sauce as a separate dish It can be boiled for soup A beautiful ornamental fern called the

asparagus iern is grown indoors and used for table decoration

Aspasia Greek lady She was born at Megara, or Miletus, the daughter of Axiochus She settled in Athens where her intellectual gifts made her known Pericles, having divorced his wife, married her in 445. After his death she became the mistress of Lysicles There is a bust of Aspasia in the Lysicles Vatican at Rome

Another Aspasia was the wife of Cyrus the younger, and later the mistress of Artaxerxes

Aspatria Market town and urban district of Cumberland, on the River Ellen, 7 m from Maryport, on the LNE Rly Around it are coal mines Pop (1931) 3239

Aspen Species of poplar (populus tremula) Owing to the long leaf-stalks the leaves flutter with the faintest breath of wind In olden days the wood was used for making arrows See POPLAR

Asphalt Brown or black natural form of bitumen It consists of a mixture of various hydrocarbons and occurs mixture of various hydrocarbons and occurs either in a pure state, or impregnating limestones as in the case of the Val de Travers rock in Switzerland Asphalt is solid or viscous, with a conchoidal fracture and pitch-like odour It is obtained chiefly from the famous Pitch Lake of Trinidad, also from similar deposits in Venezuela and Cuba The Val de Travers rock is used for paving purposes, Ashfield Baron English business man Bern in Derby in 1875, Albert Henry Stanley was a son of Henry Stanley who emigrated to the United States There young Stanley was educated and gained his experience of railway management In 1910 he became managing director of the Under ground Railway of London and during the ground Railway of London and during the ground Railway he was the head of the great next 23 years he was the head of the great combine of tram and road services that was formed round it In 1914 he was knighted, and in 1916 he joined the Ministry as President of the Board of Trade He retained office until 1919 when he was made a peer as Baron Ash field From 1916 19 Stanley was MP for Ashton under Lyne

Ashford Market town and urban district of Kent It is 14 m from Canter bury, on the Stour, and is an important junction on the S Rly The staple industries are railway shops, a cider factory and an agricultural trade Pop (1931) 15 239

Another Ashford is a village in Middlesex It is 2 m from Staines on the S Rly

Ashington Urban district of Northum berland It is 4 m from Morpeth, on the LNE Rly It is a coal mining centre Pop (1931) 29,418

Ashmole Elias English antiquary Born he studied law He served the king during he studied law

he studied law He served the Ling during the civil war, during which he also found time to study at Brasenose College, Oxford In 1660 he was appointed a herald to Charles II He died May 18 1692

Ashmole wrote A History of the Order of the Garler and was interested in astrology He is best remembered, however because he presented in 1682 to the University of Oxford a collection of antiquities, out of which the Ashmolean Museum has developed Many additions were made to the original gift, and these were long housed in a building between High Street and Broad Street In 1893 94 High Street and Broad Street In 1893 94 a new building was erected in Beaumont Street and in 1931 plans to enlarge this were put forward

Ashridge Estate in Hertfordshire It is grounds covered about 2200 acres, and the present mansion was built early in the 19th century When in 1921 the estate was sold some of it was bought for an outdoor sological carden while the bought granden were garden while the house and gardens were acquired by Mr U H Broughton and presented to the Unionist Party to serve as a training centre This is called the Bonar Law College and there persons are trained as workers in the Unionist cause See WHIPSNADE

Ashtaroth City of Palestine The exact Old Testament (Deut 1 Joshua it 12 13) it is mentioned as being the capital of Og King of Bashan Ashtaroth is also a name given to the goddess Astartt

Ashtead Village of Surrey It is 15 m from London on the S Rly. The industries include the making of potters The village has a large common on which a Roman villa was uncarthed in 1925

Ashton-in-Makerfield Urbandis market town of Lancashire, 4 m from Wigan on the L N E Hly There are cotton mills, and manufactures of hardware and pottery Pop

Ashton-under-Lyne Borough and of Lancashire, on the Tame, which here separates Lancashire from Cheshire Its suburb of Dukinfield is in the latter county It is 6 m from Manchester, on the L.M S Rly The industries include the making of cotton goods, silk fabrics and hats There are col licries near by Pop (1931) 51,573

Ash Wednesday First day of Lent. served in the Christian church since the 9th century, and ones its name to the use of ashes in the services of the day They are still used in the Roman Catholic church In the Church of England the complexitor convicts were of England the commination service is read at the services on this day

Ashwell Lena English actress She was born in 1872, the daughter of Commander Pocock, R N She studied music, but in 1891 made her first appearance on the stage She soon made a reputation, her suc cesses including parts in Mrs Dane's Defence, design including parts in Airs Dane's Deficient and The Darling of the Gods, but she is perhaps better known as a manager In 1907 she opened the Kingsway Theatre, London which she controlled for over 20 years, and after the Great War she organised the Lena Ashwell players who gave participated in threat war she organised the Lena Ashwen Players who gave performances regularly in the London suburbs During the War, she acted as Hon Organisor of Concerts at the Front. She is the wife of Sir Henry Simson, the obstetric surgeon In 1929 she published her memoirs under the title of The Slage

Ashwell Village of Hertfordshire, 4 m. rom Baldock, on the L N E Rly Another Ashwell is a village in Rutlandshire known as a hunting centre

AS1a Largest, most populous and richest in natural resources of the world's continents It covers 17,300,000 sq m Its greatest length from E to W is 6700 m. and from N to S 5300 It is bounded by the Arctio Ocean on the N the Pacific on the E, and Indian Ocean on the S On the west the Urals and the Caucasus divide it from Europe and indian Ocean on the S On the west the Urals and the Caucasus divide it from Europe Other boundaries here are the Caspian, Red, and Mediterranean Seas A narrow strip of land, the Isthmus of Sucz connects it with Africa in the NE the narrow Bering Strait separates it from America

Asia is best described country by country.

Asia is best described country by country, as in this work, but certain general features may be noted It contains every variety of climate from the cold of the Arctic to the burning heat of the Malay Peninsula or the Arabian deserts In it are the loftlest mountains in the world the Himsleyer peaks as well as the world, the Himalayan peaks, as well as the Altai, Karakoram and other great ranges With immense tracts of fertile soil, it possesses vast deserts The Gobi, or Shamo, is equal in size to the Sahara and there are many deserts in Arabia and there are many deserts in Arabia and Persia

desorts in Arabia and Persia

The rivers are worthy of the Continent In India are the Ganges the Indua and the Brahmaputra, in China the Yang tse Kiang and the Hwang ho, in Indo China the Mekong and the Saiween and in Burma the Irrawady The Obi Yenisei and Lena are in Siberia and In Iraq are the Tigris and the Euphrates Others are the Amur once famous as the Oxus, and the Amu Daria There are no great

Asia is enormously rich in mineral wealth and produces foodstuffs such as rice and maize on a vast scale Tea, rubber and other tropical products are grown Trees and plants of every

known kind abound Lions, tigers, wolves, elephants and other wild animals still roam the forests

The population of Asia is estimated at 850,000,000, chiefly Buddhists and Mohammedans. The three chief races are the Mongolians in the E, the Caucasians in the W, and the Malays The most populous areas are India and China, which together contain more than half the population of the Continent

Several European countries have territory in Asia. Great Britain governs India, in which Burma is included, Ceylon and the Malay States, and has interests in Palestine, Arabia and Iraq France has possessions in Indo-China and interests in Syria Soviet Russia rules the great area known as Siberia, as well as some adjacent areas covering altogether 6,000,000 sq. m, or over a third of the Continent. Unlike the British possessions, these lands are very thinly peopled The independent countries very thinly peopled. The independent countries include China, Japan, Persia, Afghanistan, and Siam With these may be classed Tibet, Hejaz and Iraq, countries that sprang into existence as a result of the Great War, and Manchuria was declared independent in 1932 Scholars consider Asia as the cradle of the human race. The earliest civilisations had their human race.

homes in the region around the Caspian Sea, and remains of others have been found in the central deserts. Mesopotamia contained at an central deserts. Mesopotama contained at an early date rich and powerful empires where culture reached a very high level, and the civilisations of India and China are among the oldest in the world. To Asia, also, the world

owes its great religious

ASiago Town of Italv It is a small place amid the mountains, 25 m from Vicenza In Nov 1917, after their success at Caporetto, the Austrians gained some successes here, the battle lasting till the end of December In 1918 the position was strengthened by the arrival of British and French troops and when in June the Austrians made a further attack they were beaten back. The third battle of Asiago took place in October The British took Asiago itself which had been lost in 1917, and with the other Allies drove back the Austrians

Asia Minor Name given to a peninsula forming the W end of the Continent of Asia It has the Mediterranean on the W. and S and the Black Sea to the N On the E It is linked to the mainland area Most of it forms the Republic of Turkey It is sometimes income a Apotolic of Turkey It. is sometimes known as Anatolia. Sec TURKEY Asir District of Arabia It consists of a Asir District of Arabia It consists of a Red Sca, 180 m in breadth Although nominally subject to Turkey, it was for a long time practically independent. In 1926 it was conquered by the Wahhabi, Ibn Saud, and in 1930 became part of the Lingdom of the Hejaz The soil is fertile The capital is Sabia.

Askari African soldier Derived from an it is used for native soldiers who are trained

and led by European officers

Askern Village of West Riding of York-shire, 6 m from Doncaster, on the LNE RIv. It is a populous mining centre, and there are works for carbonising the coal At one time the place was visited for its medicinal springs

Askwith Baron English publicist Born Askwith was educated at Malborough and Brasenose College, Oxford He became a barrister and practised successfully until 1907

when he was appointed an assistant secretary to the Board of Trade. He was soon in charge of the department that dealt with labour disputes, and from 1911 until his retirement in 1919 he was Chief Industrial Commissioner In 1911 he was knighted, and in 1919 made a peer Lord Askwith has written much on the subject of trade disputes, of which he has an unrivalled experience

Asoka Emperor of India from 264 to Chandragupta, who had torn the Indian possessions of Alexander the Great from pussessions of Alexander the Great from Seleucus A renowned Buddhist, he ruled over territory corresponding in Circles over without Burma, and was greatly India. revered He left behind many valuable inscriptions

Asp Poisonous suake of the any poisonous The word is also used for any poisonous that, killed Poisonous snake of the viper family snake, such as the horned snake that killed Cleopatra. The asp proper, about 12 in long, is found in the countries around the Mediterranean

Asparagus Genus of plants of the libraceae. There are many species, one being widely cultivated as a table vegetable. The common asparagus grows wild in many parts of Europe on the scashore, or on river banks, and is occasionally seen in Britain It contains a substance called aspara-

gine, used by doctors as a diuretic and for its action on the urinary organs

Much asparagus is grown in France, where a good deal is forced in hothouses for the English and other markets Since 1931 this early crop must pay an import duty of 50 per cent on entering Great Britain Other varieties of asparagus are eaten in some countries, but the bitter asparagus, which resembles the common variety, is unfit for

Asparagus is usually served with sauce as a separate dish. It can be boiled for soup. A beautiful ornamental fern called the

asparagus tern is grown indoors and used for table decoration

Aspasia Greek lady She was born at Megara, or Miletus, the daughter of Axiochus She settled in Athens where her intellectual gifts made her known Pericles, having divorced his wife, married her in 445.

After his death she became the mistress of
Lysicles There is a bust of Aspasia in the Vatican at Rome

Another Aspasia was the wife of Cyrus the vounger, and later the mistress of Artaxerxes

Aspatria Market town and urban district of Cumberland, on the River Ellen, 7 m from Maryport, on the LNE Rly Around it are coal mines Pop (1931) 3239

Aspen Species of poplar (populus tremula) Owing to the long leaf-stalks the leaves flutter with the faintest breath of wind In olden days the wood was used for making arrows See Poplan

Asphalt Brown or black natural form of bitumen It consists of a mixture of various hydrocarbons and occurs cither in a pure state, or impregnating lime-stones as in the case of the Val de Travers stones as in the case of the val de Travers rock in Switzerland Asphalt is solid or viscous, with a conchoidal fracture and pitch-like deorge Ranken darlborough and He became a deposits in Venezuela and Cuba The Val de sfully until 1907 Travers rock is used for paving purposes, and ordinary asphalt for waterproofing roofs, disterns, iron pipes, etc., also for making a black or brown paint

Herbaceous perennial plant It is native in the southern Asphodel parts of Europe, but will grow in English gardens It bears white or yellow flowers and will thrive in any soil provided it gets plenty of sun. The Greeks planted it on graves Homer speaks of the meads of asphodel in the lower regions

Asphyx1a Condition which, by do for preathing purposes, produces death, as in drowning, strangling and gas poisoning The absence of oxygen leads to quick respiration, followed by convulsions Insensibility and cessation of movement follow and death occurs within a few minutes

Treatment—The treatment is the same as for drowning (qv)—artificial respiration and the application of warmth in gas poisoning the victim must be removed to the open air A

doctor should always be sent for

If scalding liquid or corrosive poisons are swallowed, the patient must be kept sitting before a fire, and an ice bag or hot fomentations should be applied to the throat.

Aspidistra Evergreen plant of the China and Japan, and was introduced about 1822 into Great Britain as an indoor decoration

Aspirin Drug efficacious for giving relief to pain, especially from neuralgia, sciatica, and rheumatism as well as for head aches and colds It is a white crystalline sub by chemists acetylsalicylic acid It is usually by chemists acetylsalicylic acid It is usually taken in tablet form The dose is from 5 to 15 grains If taken for a cold, the patient should go at once to bed as the drug tends to cause sweating If taken regularly aspirin loses some of its beneficial effects, and tends to depress the action of the heart

Asquith Family name of the Earl of Herbert Henry Asquith who in 1925, was created Farl of Oxford and Asquith, left seven children two being by his second wife Margot daughter of Sir Charles Tennant The eldest son, Raymond Asquith a barrister was killed in action while serving with the Grenadier Guards, action while serving with the Grenadler Guards, Sept. 15 1916 His son Julian became Earl of Oxford on his grandfather s death in 1928 and his two daughters were given the rank of an earl's daughter Herbert Asquitt the second son vrote novels and verses, the novels in cluding II and s End and Young Orland Honarried Lady Cynthia Charteris daughter of the Earl of Wemyes known as a writer of books for children The third son, Arthur Melland won the DSO in the Great War and afterwards became as ociated with some important trading companies in London. The important trading companies in London The fourth son Cyrl is a barrister The fifth Antony, is a film producer Lord Oxford's two daughters are Lady Violet Bonham-Carter wife of Sir M. Bonham-Carter, and Elizabeth the wife of Prince Antoine Bibesco, Rumanian minister in Madrid

duced into England, where it has since been used as a draught animal It is crossed with the horse for the breeding of mules

Assab Port on the Red Sea It is in outlet for the produce of Abyssinia, it has a good harbour but no railway

Province of India It lies between Assam Bengal and Burma, with Bhutan and Thet to the north and covers 53,00 sq m The surface is hilly and in the north, where are the Himalayas, it is mountainous The Brahmaputra and the Surma are the chief rivers The soil, especially in the valleys, is very fertile, and the province is famous for Its tea Another product is rice while coal and oil are mined There are extensive forests in which is much valuable timber Shillong is the capital The province is under a governor and a legislative council Within its boundaries is the native state of Manipur

Assam was taken by Great Britain from Burma in 1826 and in later years, from 1874 to 1905, it formed a separate province, but from 1905 to 1912 it was united with Bengal as it had been before 1874 In 1912 it was again made a separate province Pop 8 622,251

Assassins The Sect formed by Hasan-of the 11th century They flourished in of the 11th century They flourished in Persia and Syria until they were crushed in the 13th century Under their chiefs they acquired great power their practice of 'assassinating' their enemies causing them to be greatly feared

Assault In English law an attack on a person without just cause, or the threat of an attack if in more than mere words, with at least an intention to hurt. The crime is punishable on summary con viction by fine or imprisonment. Assaults on females and young boys, which are more seriously punished, are known as aggravated assaults. A person assaulted can bring an action for damages

Assaying Term applied to the methods followed in the estimation of a metal in an ore or alloy \_This may be done metal in an ore or alloy This may be done by dry or wet assaying In a dry assay the ore mixed with solid reagents is subjected to heat, thus isolating the metal which is weighed and the percentage calculated

By the wet method solvents and other re-agents are used, and by solution and precipitation the metals present are separated and weighed In some cases gaseous reagents are used or the fused one may be subjected to an electric current Volumetric assaying is a rapid method of estimation by determining the volume of a standard reagent necessary to effect a certain change in the solution

Assegal Weapon used by some African tribes It is a light spear made of a hard wood tipped with iron, and thrown at the advancing enemy. It was used by the Zulus in their wars with the British

Assent Consent or agreement. In Great British Empire a measure that has passed minister in Madrid

ASS Animal belonging to one of the divisions of the genus horse (equius) It has a tufted tail and long ears and is popularly known as the donker. The ass is found wild in Asia and Africa. It was domesticated at an early date and in the 16th century was intro

of deciding what rates and taxes they shall pay It is done by officials of the county or borough councils who put a yearly value on every factory, warehouse, shop, house or piece of land, and on this rates are charged This is something less than the rent, usually in theory it is the rent less an allowance for repairs Since 1925, when the rating system was altered, every county, borough or other rating authority, must have an assessment committee which is responsible for assessing all property within its area Sec RATES

The word is also used for fixing the amount of income on which a person must pay income tax and for the amount of damages awarded

by a jury in a lawsuit

Assessor in English law an expert who assists judges and arbitrators. Since 1873 it has been the custom to call upon assessors when difficult points are at issue, as in the Court of Admiralty and in cases about When ecclesiastical cases come before the judicial committee of the Privy Council, one or more of the archbishops or bishops usually sit as assessors. Assessors are also recognised in Scotland where they assist the magistrates.

Term used for the property of a Assets ASSETS person or company as distinguished from his or its liabilities. The assets of a limited company are its buildings. machinery, goodwill, etc., and appear on the right-hand side of the balance sheet. The assets of a bankrupt are the funds available to pay the expenses and 2 dividend to the creditors

Asshur Assyrian god He was the chief and creator of all the other gods The city of Asshur stood on the Tigris, 55 m from Mosul, and Assyria was named after it.

Assignment Formal transfer of pro-another Thus a bankrupt assigns his property to a trustee for the benefit of his creditors. The corresponding word in Scots law is assignation

ASSINIBOIA District of Canada. It was ASSINIBOIA at one time part of the North-West Territories Nearly 90,000 sq m m area, it is now part of the provinces of Saskatchewan and Alberta The name is that of a tribe of Indians, and is also borne by the River Assiriboine which flows into the Red River at Winnipeg It is about 700 m long.

ASSISI City of Italy It is 15 m. from Perugia and stands on a hill, over 1300 ft. high. The Franciscan monastery contains work of some of the early Italian artists, it has one church built over another Near the city is the church of S Maria degli Alred, containing the cell in which S Francis and the artists of the containing the cell in which S Francis died, and the oratory of the original monastery. Pop 18,500

ASSIUT Town of Egypt. It stands near the Nile, 248 m. south of Cairo. It is a calling place for caravans, and is famous for its dam Near are some famous rock tombs At one time Assiut was famous for its potters and other works of art Pop 57,000

it." The royal assent has not been refused for where the laws were issued, e.g., Clarendon over 200 years.

Assessment Process of valuing houses with which they dealt, e.g., the assize of arms, and land for the purpose The word was also used for a legal action, and this use of it continued until the 19th century.

> Assizes In the older sense an enquiry. It is now used in England, Ireland and other countries for the visits of the judges to the cities and towns in the provinces which are called assize towns assizes are held three or four times a year for the trial of important cases, both criminal and civil Judges of the King's Bench division of the High Court of Justice preside over the assizes For this purpose the country outside the London area is divided into circuits, and a judge goes through each circuit. To assist him there is for each circuit a barrister called the clerk of assize

> Word used for a member of a Associate ASSOCIATE society, usually a learned society, who is not a full member. Thus the Royal Academy has associates, known as Royal Academy has associates, known as A.R.A., and from these the full members, RA, are elected Another kind of associate is an official in the law courts. He acts as an assistant to the judge, by recording the verdicts, and in other ways

> Association Society or organisation existing for a common purpose, such as looking after the interests of a trade or profession, or, in former times, protecting the life of a sovereign The association of ideas in the human mind is a subject to which philosophers and psychologists have devoted much attention. Some explain all our mental processes by the theory of the association of iqeas

> Association Cup Trophy awarded overy year to a club playing football according to the rules of the Football Association It was first given in 1871 and has increased steadily in popularity ever since then There are preliminary rounds in which the weaker clubs are weeded out, and six rounds in the competition proper From the first two of these the stronger clubs are excused, but they come into the third round in which there are 64 competitors These are reduced by the sixth round to four, and the four play in the semi-finals, and the victorious two in the final Since 1923 the final has been played at the Stadium at Wembley.

WINKERS OF THE ASSOCIATION CUT SINCE 1900

-Bury 1920-Aston Villa. 1901-Tottenham Hotspur 1921—Tottenham Hotspur 1922—Huddersfield. 1902-Sheffeld United. 1923—Bo'ton Wanderers. 1924—Newcastle United. 1925—Shemeld United. 1903—Bury 1904—Marchester City 1905—Axton Villa. 1906—Everton. 1907—Beffield Wednesday 1909—Wolverhampton Wand. 1903-Burr 1926—Bolton Wanderers. 1927—Cardiff City 1928—Blackburn Bovers. 1909—Wolvernampton via 1909—Manchester United. 1910—Newcastle United. 1911—Bradford City 1929—Bo'ton Wanderers, 1930—Arienal. 1931-West Bromwich Albion 1912—Brandord City 1912—Barnsley 1913—Aston Villa. 1914—Burnley 1915—Sheffield United. 1932- ewcartle United. 1934—Hanchester City 1935-Sheffield Wednesday

Assuan Town of Egypt It stands on the Nile and is famous for its dam. This vas opened in 1992 and enlarged in 1912 Its reservoir has a capacity or in 1912 Its reservoir h 2,420,000,000 cubic metres

Assize Word meaning "an enquiry," and the results of such an enquiry mader the Egyptians and the Romans Near are the granite quarries from which the Egyptians obtained the stone for many of their assizes some were called after the place

ancient city, and the place is visited by tourists Pop 16,458

Assumption of the dead into heaven The chief use of the word is for the assumption of the Virgin Mary, this being a festival in the Roman Catholic Church Held on Aug 15, it is a day of obligation. Many great painters, including Titian and Rubens, have pictured the assumption

Several orders of women in the Roman Catholic Church have been founded in honour of the assumption These include the Little Sisters of the Assumption, a nursing order, and the Oblates of the Assumption, who teach and

Assyria Empire of the ancient world It was the district round Asshur, a city on the Tigris Its people were Semites related to the Babylonians They were also priests. Their religion, with its hierarchy of gods and god desses, was very like that of Babylon Sacrifices were an important part of its ritual

Assyria existed as early as 2500 Bc, but as a dependency of Babylon About 1400 it became independent and for a short time Babylon was a subject state For the next 800 years its kings conducted almost incessant years its kings conducted almost incomments wars against the Hittites and other peoples on their borders, the result being that their dominion was greatly extended, although it never covered an area equal to that of Babylon It was, however, in the time of King Tiglath Pileser I, who reigned about 1100 BC, the greatest power in the world

greatest power in the world

After a period of deeline the power of Assyria
revived under Tiglath-Pileser IV, who lived
about 700 BC and conquered a good deal of
Asia Minor, including Palestine and Syria
and also parts of Arabia Later Esarhaddon
included Egypt in his realm, which was divided
into 22 nomes or provinces Babylonia and the into 22 nomes or provinces Babylonia and the rest of Mesopotamia (Iraq) had previously been The end came soon after this conquered period of glory Instead of one ruler there were several, and unity was quickly lost. Fgypt became independent, and a little later Babylon followed her example. Other parts of the realm threw off their allegiance to the king at Nineveh and in 607 BC the Medes took that city, and the Assyrian Empire came to an end

Excavations at Nineveh and elsewhere have revealed much of the culture of the Assyrians They were skilled craftsmen, working in gold and silver weaving cloth and making pottery They were great traders and evidence has come to light that they had banks. They wrote on tablets of brick and in this medium they had immense libraries the books including

grammars and treatises on science

The Assyrians were perhaps greatest as builders, and the size and splendour of their buildings as revealed by excavations, is one of the marvels of the world Temples palaces and tombs were decorated in a most gargeous fashion. The ruins of Nineven when explored proved that it was one of the greatest cities of the world More recently excavations have shown the existence of buildings, perhaps equally magnificent at Sargon s capital the modern Khorsabad where valuable finds were made in 1932

Astarte Goddess of the Phoenicians or She shared with Bank the position of chief of the gods. She was the goddess of fertility and was sometimes repre-sented as a cow. The moon was her emblem

She had temples at Erech, Nineveh, Arbela and elsewhere, and was worshipped with licentious rites. This is referred to in the Bible (2 Kings xxiii)

Aster Genus of flowering plant, also called the Michaelmas dalsy. They have undivided leaves and flowers not unlike the daisy They are in many colours and are both annuals and perennials

Asteroid Name used for the minor planets. They lie between Mars and Jupiter, and the first of them, Cores, was discovered in 1801. Others were soon found and after 1847 a number were discovered. each year In the 20th century this work was alded by photography, and in one year (1908) 117 new asteroids were found Now over 1000 are known and one authority estimates that there are altogether something like 50,000

there are altogether something like 50,000 All the asterolds are very small Ceres, the largest, is only 480 m in diameter the next largest are Vesta, Pallas, and Juno The smallest is only 3 m in diameter The total volume of all the asteroids together is vastly less than that of the earth One of them, Eros, discovered in 1908, is very near the sun, and its movements are therefore of great value

to astronomors

Asthma Chronic disease of respiratory tract, characterised by acute attacks of bronchial catarrh and spasmodic difficulty of breathing (with a wheezing sound), for which change of climate is often sound), beneficial

Immediate relief in an attack is sometimes gained by propping up in bed, and by the use of drugs under medical supervision. Inhaling the fumes from burning a preparation such as stramonium or nitre paper will relieve the spasms and aid expectoration in severe attacks No heavy meals should be taken at bedtime and the diet should be carefully studied, as individual idiosyncrasies for certain foods are often present. Other exciting factors may be dust, pollen, feather beds, etc

Defect in the refracting Astigmatism Defect in the refracting surfaces of the eye, resulting in clear vision of horizontal and vertical objects being attained at different distances sometimes in the lenses It can be corrected by the use of cylindrical glasses

Astley Philip Circus proprietor He was born at Newcastle under Lyme in 1742 He joined the army in 1759 and soon became very clever at managing and training horses Leaving the army he gave performances of horsemanship Next he opened circuses, in London and Dublin In London, Astley's was on the south side of the Thames, opposite the Houses of Parliament. He died in 1814

Aston Manor Until 1911 a borough of Warwickshire In that year it was made part of Birmingham Aston Hall is now a museum and art gallery and its grounds a public park

Aston Villa Association football club Villa Cross, Handsworth, Birmingham Its first members belonged to a Wesleyan Church The club won several cups and was one of the first to engage professionals when about 1880 association football was taken up by the masses The Villa has a wonderful record, probably unequalled, at the game It has won the Association Cup on six occasions, 1887, 1895

ground is at Aston, Birmingham.

Astor American family John Jacob Astor was born at Waldorf, near Heidelberg, July 17, 1763 In 1783 he went to New York and soon acquired a fortune by trading in furs with the Indians He founded Astoria in Oregon as a centre for his business. and bought land in New York which became very valuable. He died in 1848. His great-grandson, William Waldorf Astor (born March al 1848) was for a time American minister in Rome. In 1890 he settled in England, where he bought Hever Castle and Cliveden and acquired some weekly and other journals In 1899 he was naturalised, in 1916 he was made a baron, and in 1917 a viscount. He died Oct 18, 1919 Astor left two sons The elder, William

Waldorf Astor, born May 19, 1879, was MP for Plymouth from 1911 to 1919 From 1918 to 1921 he was a member of the Coalition Government, taking a special interest in questions affecting agriculture, temperance and public health In 1906 he married Nancy Y Witcher daughter of C D Langhorne of Virginia. In 1919 she was elected in succession to her husband, Unionist MP for a division of plymouth being the first recognition of the succession of the s Plymouth, being the first woman to sit in the House of Commons She held her seat at subsequent elections and won a distinct place for herself in the House The younger son of the first viscount, John Jacob Astor, was elected M.P. for Dover in 1922 In 1922 he became principal proprietor of The Times He must not be confused with his kinsman, another John Jacob Astor, who was drowned in the Times in the Titanic in 1912

Astrakhan Town and river port of Russia, on the Volga, and partly on an island in the river, about 50 m from the Caspian Sea. The centre of the city is the citadel, or kremlin, wherein is the cathedral Another part is called the White City Astrakhan does a considerable trade both by land and water, and has a number of manufactures. Its market and bazaar have been famous for three centuries. Pop. 199,000

The name astrakhan is used for a material employed for clothing It is made from the skin of Persian lambs, but is also made artificially from wool It resembles a fur and was at one

time very popular Astrolabe Instrument used by the ancients and also in medieval times for taking altitudes and marking the positions of sun, moon and stars. As used by the early seamen, it consisted of a circle with two radical pointers, one fixed and the other movable, both being fitted with sights. It thus measured the angle between two stars, or between a star and the horizon. It was used until the 18th century when it was replaced by the quadrant It was also used by surveyors, and in a more elaborate form by astronomers, but it has now been replaced by more modern instruments

Astrology Science based upon the influences affect human affairs, and formerly regarded as identical with astronomy In early times activated to the science of the science

1897, 1905, 1913 and 1920, and the champion-the positions of and the relations between, ship of the League on six occasions Its the Sun, Moon, Mercury, Venus, Mars, Jupiter, cronnd is at Aston, Birmingham. Saturn and in modern times, Uranus and Neptune The signs of the zodiac also play an important part in astrology

Natural astrology is concerned with the supposed effect of planetary influences upon changes in the weather etc, while judicial astrology treats of the effects upon human affairs. In this latter branch of the science, the horoscope or chart of the heavens at the birth of an individual forms the basis for the predictions of the astrologer

One who studies Astronomer heavenly bodies In England there is an Astronomer Royal who has charge of the observator; at Greenwich John Flamsteed was the first holder of the office There is also an Astronomer Royal for Scotland, and one for the Cape of Good Hope Other astronomers are in charge of the various university and other observatories

Astronomy Science which treats of the celestial bodies and their nature, position, motions etc. It is one of the oldest of the sciences and was studied in China as far back as 2300 BC, and from a much earlier period in Egypt and Babylonia. where a high technical skill was reached The Greeks, deriving their knowledge chiefly from Babylonian sources, further developed the science under Thales, Hipparchus Eudoxus, Ptolemy, and other astronomers, handing on their knowledge to the Arabs, whose translations of Greek writings and independent observations formed the basis of European astronomy

Copernicus in the 15th century, Kepler and Copernicus in the 15th century, Kepler and Galileo a century later, and Newton in the early 18th century, purged the science of its carlier errors and placed astronomy upon a more scientific basis. The discovery of the telescope gave a great impetus to the study of the heavens, and observational work became of increasing importance from the 18th century onward. In the latter part of the 17th century, the Greenwich and Paris observatories were founded, and since that time servatories were founded, and since that time similar centres have been established in many parts of the world The invention of the spectroscope and the improvements in astronomical telescopes have brought the science to a very high level

Modern astronomy is divided into obseror telescopic astronomy, vational astrophysics dealing with the spectroscopic study of the celestial bodies and photographic astronomy.

For encouraging the study of astronomy there are the Royal Astronomical Society and the British Astronomical Association while photographic, spectroscopic and other investigations are carried out at the various observatories

Astrophysics Subsidiary branch of astronomy dealing with the nature of light and heat from the stars and the physical constitution of the heavenly bodies in general The study of astrophysics began in the later part of the 19th century with the use of the spectroscope and the appli-cation of photography to astronomy By means regarded as identical with astronomy In early times astrology was in great repute, and its symbolism permeates the ancient religions and philosophies Traces of astrological ideas occur in the use of the terms, ili-starred, jovial, saturnine, mercurial, lunatic, etc, in our language The deductions were based upon Asturias District in the north of Spain, bordering the Bay of Biscay The name is that of the Astures an early tribe At one time it was an independent kingdom this being founded about 720 by some Christians who refused to accept the rule of the Moors The Moors got the worst of several battles with these Christians, and the kingdom of Asturias grew larger and stronger About 910 It became known as the kingdom ADOUR PLU ID DECAME KNOWN as the kingdom of Leon, this city being its capital Oviedo was the earlier capital Until 1930 the heir to the Spanish throne was called the Prince of Asturias, which thus corresponded to our title of Prince of Wales

Asuncion Capital and river port of Paraguay It is on the Paraguay River, 650 m from Buenos Aires It has a university The industries include shipping, shipbuilding and some manufactures It is also a banking and general trading centre for the republic The town was founded on Ascension Day, 1537 Pop (1931) 91,156

Asylum Place of refuge In the first instance it was a place, a temple for instance, in which criminals and other The Jews had asylums offenders were safe or cities of refuge and they existed in Greece or cities of refuge and they existed in Greece and Rome In England a sanctuary was an asylum of this kind. The right of asylum is the right possessed by one country of giving admission to fugitives from another country. To day an asylum is an institution in which

the insane, i.e. those suffering from severe mental disease are treated. The term 'Mental Hospital has now replaced that of "Asylum" Such institutions are maintained by county and borough councils, and are supervised and Inspected by a government department called The Board of Control '

Atacama Desert in Chile It extends stretches from the Pacific coast to the Andes Yuch of it is mountainous There is little vegetation but it is rich in minerals and from it large quantities of nitrate, salt, borax, silver copper etc are obtained

Atacamite Rare mineral of Atacama and also in Saxony and Sielly It is usually green in colour and its specific gravity is 37 Its symbol is Cu Cl. 3Cu (OH). It is worked as an ore of copper

Atalanta In Greek story a maiden of Atalanta Arcadia. Hor father Iasus desiring a son left her to die but she was nurtured by a wolf Very fleet of foot she avoided marriage by challenging her suitors to a race, in which she was invariably success ful Her suitors as the penalty of failure were killed by her At last a certain Milanion beat her by a ruse. As he ran he dropped some golden apples given to him by Aphrodite Atalanta stopped to pick them up and lost the race. She therefore married Milanion.

Atavism (Lat alarus a ma'e ancestor)
Term used by biologists for a
reversion to a characteristic of an ancestor It is found not only in men but also in animals and plants The red hair or very blue eyes possessed by an ancestor might, after being absent during three generations reappear in a member of the fourth

On April 8, 1898, a British and Egyptian army under Lord Kitchener defeated a force of dervishes on the banks of this river, and so propared the way for the advance to Khartoum.

Atē in Greek story a daughter of Zeus or of Erls (Strife) She was the goddess of mischief and appears much in Greek tragedy Her rôle was to induce the guilty to perform further evil deeds and so bring about their own punishment She was thus the personification of retribution

Athabaska River and lake of Canada, also called the Elk and the Reindeer The river rises in the Rocky River and lake of Canada. Mts and flows mainly east and north until it falls into Lake Athabaska. It is 550 m long and is navigable for a good part of its course, although interrupted by the Grand Rapids Navigation begins at Athabasca Larding about

100 m north of Edmonton
The lake, which covers 2842 sq m and is
190 m long, is in Alberta and Saskatchewan.

It was discovered in 1771

Before 1905 a great district in Canada was called Athabasca It covered 251 000 sq m and was situated in the North West Territories In 1905 parts of it were given to Sas Latchewan and Alberta and in 1912 the rest became part of Manitoba.

hecame part of Manitoba.

Athaliah Biblical character A daughter of Ahab King of Israel and his wife Jezebel, she married Jehoram King of Judah She fostered the worship of Baal among her husbands subjects Her son, Ahaziah, became king on his fathers death, but he was soon killed His children were thereupon murdered by Athaliah save one Joash who escaped Athaliah ruled the country for 6 years, but was killed when the high priest arranged for the coronation of Joash (2 Kings xi 2 Chron xxii xxiii)

Joach (2 Kings xi 2 Chron xxii xxiii)

Athanasius Christian saint. Born at Alexandria, about 297, he was ordained and became prominent at the Council of Nicaea In 326 he was made bishop, or patriarch, of his native city His career was occupied with disputes with the followers of Arius In 335 for refusing to re store Arius to his position in the church, he was deposed, and in 336 banished by the Emperor Constantine Thereafter he was several times in exile before he was finally restored in 363 He then remained at Alexandria until his death, May 2, 373

andria until his death, May 2, 373

Athanasius is famous in the history of the church as the champion of the belief in the Church as the champion of the belief in the Arians. This is expressed in the creed named after him, although his exact share in its

compilation is uncertain

Atheism Disbeller in the existence of God It may be disbeller in the existence of a personal god, or disbellet in the existence of a first cause of any kind If the former it is held by a large number of thinking men It differs from materialism and thinking men It differs from materialism and agnosticism Delsm such as was held by Voltaire has sometimes but wrongly, been called atheism which is strictly the opposite of theism or belief in God

Athelney District of Somerset A marshy region near the union of the rivers Tone and Parret it is often called an island Here Alfred the Great took refugo Atbara Liver and town of the Sudan an island Hero Alfred the Great took refugo in 878 and there are slight remains of a monastery he is said to have founded. There railly junction on the line to Khartoum Athelstan King of England Born about 895, he was a son of Edward the Elder and a grandson of Alfred the Great In 928 he succeeded his father as Born king and he reigned for 15 years. The great event of his reign was his victory over a group of enemics at Brunanburh in 937. He died at Gloucester, Oct. 29, 940

Athena Greek goddess The daughter of Zeus, she is said to have sprung fully-armed from the head of her father She was the goddess of wisdom, but also the goddess of war and of agriculture and other arts and crafts, as well as of literature and art, while others was under the part of the said o art, while Athens was under her protection She was called sometimes Pallas, or Pallas Athene, and her Roman counterpart was Minerva She is represented as wearing a helmet with a shield on which was the gorgon's head Other symbols of the goddess were an owl, a serpent and an olive branch

Athenaeum Temple built in honour of Athena In time the word came to be used for a school, Athena being the goddess of wisdom, and there were athenœums in Athens, Corinth, Alexandria and later in Rome The one in Rome was founded by the Emperor Hadrian in AD 135 They were the precursors of the university of a later date. The word is still occasionally used in this sense

The Athenaeum Club is regarded as the most distinguished of the London clubs. Its members are men of distinction in all departments of public life. The fine building fronts. Waterloo Place The club was founded in 1824 The weekly journal named The Athenaeum was founded in 1828 by James S. Buckingham It existed as a weekly journal until incorporated in 1921 with *The Nation* 

Athenry Market town of Co Galway, from Galway on the Great Southern Rly Pop 900

Athens City of Greece and the capital of Attica, surrounded by hills, four miles from the sea and from its port the Piracus Its interest is chiefly historical, as it is one of the two most famous cities of the ancient world and the ruined buildings on the hill called the Acropolis are the finest remains of their kind extant. Below is the modern city with wide, straight streets and buildings of modern type After a great war a new water supply was provided Athens is named after the goddess Athena and its reputed founder was Theseus Pop 453,000

The buildings include the academy, the library and the university, all built of white marble in the classical style. The stadium

was restored for the Olympic Games
Around the Acropolis are remains of the
wall that once enclosed it and on it are the
Parthenon, the Erechtheum and the Theseum, all carefully preserved and giving in their rulned condition some idea of their original beauty. The Theseum has been the least damaged by time

Athens began as a little state ruled by a king, but was soon the capital of Attica The kings disappeared and tyrants, Peisistratus being the most famous, took their place about 1000 BC Later the city became a democracy Its citizens took a leading part in defeating the Persians when they invaded Greece in 490 BC and 480 BC.

The Persians did indeed reach and damage the city, but the loss was more than made good and Athens entered upon its great age. It became the most powerful of the Greek cities, and head of the Athenian Empire Many cities were subject to it, while others, as members of the Delian League, were its obedient allies Its army and navy were both in a high state of efficiency

In the age of Pericles which began about 440 BC, Athens was at the height of its power Art flourished and there arose those noble buildings and that wonderful statuary that culminated in the Parthenon and the statue of

Athena by Pheidias
In 431 Athens became involved in a war
with Sparta and this continued with intervals
of peace until 403 BC, when the city was
entered by the Spartans and forced to give
up her ships and her colonies Her decline bad been aided by the disastrous expedition to Syracuse In the next century the Macedonians inflicted further humiliations upon the city which in A D 146 became part of the Roman Empire Both its Macedonian and its Roman rulers, however, by erecting temples and other buildings, added much to its beauty

Atherstone Market town of Warwickshire It is 102 m from London on the L M S Rly Near are the ruins of Merevale Abbey, a Cistercian house The town gives its name to a hunt. Pop 6000

Atherton Market town and urban district of Lancashire It is 5 m from Bolton, on the LMS Rlv The industries include cotton mills and coal mines Pop (1931) 19,985

Athletics Anv kind of physical game, includes, not only running and jumping, but games such as football and cricket, and contests such as boxing and wrestling In one form or other athletic sports have been practised by almost every people and in severy. form or other athletic sports have been practised by almost every people and in every age, but the Greeks with their organised games, were its greatest exponents and produced the finest athletes. The Romans were less interested in this form of activity, but they had their games. they had their games

Athletic games and sports were common during the Middle Ages and every fair was enlivened by physical contests of one kind or other Games of this kind lost their popularity in the 17th and 18th centuries, but

running and other contests came into favour Modern athletics date from the 19th century when athletic meetings were organised such was held in 1807 In 1850 one was such was held in 1807 In 1850 one was held at Oxford and in 1864 the annual athletic meeting between Oxford and Cambridge was inaugurated Other meetings were started in various places and the Amateur Athletic Association was founded to supervise them. This association holds a meeting each year in London To-day almost every college and school has its athletic sports and there are army and other meetings Athletic clubs are attached to churches, business houses and social organisations

The movement is by no means confined to Great Britain It has been taken up in the United States and the British Dominions and international competitions are held For the Great British portions and international competitions are held for the Great British more instance, athletes from Great Britain meet those from Italy, France and other countries, and Oxford and Cambridge regularly meet In 1896 the modern Harvard and Yale

Olympic Games, a great international contest, were started and are held every four years See Olympic Games

Athlone Market town, county town and urban district of Co Westsides of the Shannon 78 m from Dublin on the GS Rlys There are some manu factures and an agricultural trade, while it is a fishing centre Pop 7472

Athlone Earl of British title It was borne from 1692 to 1844 by the family of Van Reede The first earl was a Dutch general who distinguished himself at the siege of Athlone and was made an earl in 1692 The title became extinct when the 9th earl died in 1844 In 1917 it was given to Alexander, Prince of Teck, a brother of Queen Mary He married Alice, daughter of the Duke and Duchess of Albany, served in the army and from 1923-30 was Governor General of South Africa. In 1932 he was elected Chancellor of the University of London

Atholl Duke of Scottish title borne by An earldom of Atholl was held by the family of Stewart Murray. An earldom of Atholl was held by the family of Stewart until it became extinct in 1695. The estates passed then by marriage to William Nurray, Earl of Tullibardine and in 1699 his son became Earl of Atholl. The 2nd earl was made a marquess in 1676 and the 2nd marquess was made a duke in 1703.

made a marquess in 1676 and the zhu marquess was made a duke in 1703

The titles came in 1917 to John George Stewart Murray as 8th duke As Marquess of Tullibardine he was M P for West Perth shire, 1910 17 He married Katherine Marjory, daughter of Sir James H Rameay She was elected to the House of Commons in 1923 and at subsequent elections, and was parliamentary secretary to the Board of Education, 1924 29

The duke's seat is Blair Castle in Perthshire

around which are his extensive estates. His cldest son is called the Marquess of Tullibardine and he himself sits in the House of Lords as Earl Strange.

Athos Mountain of Greece It is about 80 m from Salonika, near the Egean Sea and is over 6000 ft high The name is also given to the poninsula which is connected with the mainland of an isthmus and which is about 30 m long There are about 20 monasteries and 6000 monks in the region

Athy Market town and urban district of Athy Co Kildare Irish Free State and 46 m. from Dublin. It has a trade in agricul tural produce The chief objects of interest are two castles and some monastic remains Pop 36336

Atlanta City of Georgia, also the capital Atlanta of the state It is a great distributing centre, one of the greatest in the southern states, and is served by several lines of railway It has also a number of manufactures cotton and tobacco being among the materials treated Pop (1930) 270,366

Atlantic City of the United States It is on an island off the coast of New Jersey, 60 m from Philadelphia, and within easy reach also of New York and other popular centres It has a magnificent bathing beach and indoor and outdoor attractions of every kind The promenade is 8 m. long Pop 66,198

Atlantic Ocean Great oceans. It

lies between the old world and the new and extends for some 8500 m from north to south It covers 30 000,000 sq m, being inferior in size only to the Pacific Ocean. In places it is over five miles in depth, but much of it is shallow and it contains the most valuable fishing grounds in the world. It is traversed by a long ridge which is within two miles of the surface. The ocean includes such openings as the Mediterranean Sea, the Baltic Sea, the North Sea and the Gulf of Mexico. It is crossed by several cables. The ocean derives it name from the mythical island Atlantis (q v)

In May, 1919, after several attempts the Atlantic Ocean was first crossed by an American seaplane In June, 1919 J. Alcock and A W Brown crossed it for the first time in an aeroplane, and in May, 1927, it was crossed by O Lindbergh who flew without stopping from New York to Paris. These and other successful Atlantic flights were from America to Europe, the more difficult crossing, Europe to America, was first made in April, 1928, by two German airmen Others have crossed the ocean by air, one of the vessels to do so being the German airship Graf Zeppelin On 21st May, 1932, Miss Amelia Earhart flew alone from Newfoundland to Londonderry, almost 2000 miles, in 16 hours

Atlantis Imaginary island. The ancients believed that there was such a land and Plato mentions it as having been destroyed by the sea on account of the wickedness of its inhabitants. It was placed somewhere in the Atlantic Ocean Bacon's New Atlantic describes an ideal state

Atlas Range of mountains in the north on the Atlantic Ocean through Morocco, Algeria and Tunis to the Mediterranean Sea at Cape Bon. Its length is 1500 m The range is divided into three groups The chief is the Great Atlas in Morocco this has many peaks over 10 000 ft in height The highest of all is Tagharat, nearly 15,000 ft. high The other sections are the Lesser Atlas in the north and the Anti Atlas on the south In Algeria and Tunis are the Tell Atlas and the Sahara Atlas The lower parts of the range are densely forested.

the Sahara Atlas The lower parts of the range are densely forested.
Atlas In Greek legend a giant, one of the Titans For rebelling against Zeus he was sentenced to stand near the garden of the Hesperides and support the universe on his shouldors For this reason a collection of maps is called an atlas

universe on his shoulders. For this reason a collection of maps is called an atlas. Sculptured figures of men, made as supports to buildings in the classical style, are called Atlantes, this being the plural of Atlas. They serve as substitutes for columns

Atmosphere gurrounding the earth and other planets The earth's atmosphere consists of 21 per cent. of oxygen 78 per cent of nitrogen and 1 per cent. of argon and other gases It varies slightly in different localities A moist atmosphere contains about 3 per cent of water At the earth's surface the temper ature of the atmosphere varies with the latitude It decreases with altitude by about 1° C for every 600 ft. Thus the summit of Mont Blanc is 16° C colder than the summit of Ben Nevis which is two miles lower The reason is that the warmth of the air is obtained not from the passage of the sun's rays through it but from direct contact with land or water surfaces. The height to which the atmosphere extends is

It may be as much as 200 miles, but at such heights it is exceedingly rare Indeed, at 31 m the pressure of the atmosphere is only half what it is at the sea level See Air.

Atmospherics Term used for irregular disturbances due to natural electrical phenomena such as thunderstorms, which produce noises difficult to eradicate in the telephone or loud speaker of a wireless receiver

Atoll Coral reef forming a circular piece found in the Indian and Pacific Oceans and are usually grown over with coconut palms There are several theories about their origin The most generally accepted is that they are due to the upgrowth of coral rece over islands that have gradually subsided, the rising of the one and the falling of the other taking place at the same rate See CORAL

Atom According to Dalton's Theory a chemical atom is the smallest indivisible unit of an element. Now, however, experiments prove that the atom itself is made up of two kinds of smaller particles, "electrons" and "protons" The electrons are certified of recent in the control of the control are carriers of negative electricity, and they may be looked upon as the atoms of electricity Owing to modern physical research an atom is regarded as an open grouping of electrons which revolve in orbits around a central comparatively heavy nucleus of positive comparatively heavy nucleus of positive electricity ("proton") In the lighter atoms the electrons are few in number and farther from the nucleus than in the heavier atoms, in which the electrons are several arms, in which the electrons are many and more

closely aggregated around the nucleus
By the grouping together of atoms compounds are formed, and these atomic groups are known as molecules, as for example, the molecule of common salt consists of one atom of chlorine and one atom of sodium. The relative weights of the atoms of the different elements and their distinctive properties seem to be determined by the number and arrepresent of the electrons and recont and arrangement of the electrons, and recent experiments designed to change this number have succeeded in "disintegrating" the atom into an atom of a different element

For further study of the atom and its nature the reader is referred to the works of Sir Oliver Lodge, Sir William Bragg and Prof Andrade

Atonement In Christian theology, sin by the sacrifice of Jesus Christ, He being "the propitiation for our sine" The idea of proporties the gode by sacrifice the gode. propitation for our sins. The fuca of propitating the gods by sacrifice is very firmly rooted in primitive religions and has passed into the more advanced faiths. It was held firmly by the Jews and there are many references to it in the Old Testament.

13

15

th

ď 山山

۳۶. مال

œ

From the Jews the idea came to Christian thought and it culminated in the belief that the consequences of sin could be expiated, or atoned for, by the one supreme sacrifice, the death of Jesus Christ. Christ himself referred more than once to his coming death as an offering of this kind, and the Christian belief in salration. in salvation was built up on it by S Paul and others In this view the human race can only be saved from the just wrath of God,

or Oct. Its observance is ordered in the Mosaic law, and it is probably an atonement for the worship of the golden calf

Atrophy Decrease in the size of a tissue of the cells It occurs in plants as well as in animals It may be either local or general Local atrophy takes place at certain stages of life, as when in old age the jaw shrinks General atrophy is due to disease such as cancer or tuberculosis It may also be due to lack of nutrition

Attaché service Junior official in the diplomatic Those who enter the service usually gain this early experience of serving as attaché at an embassy There are These are also naval and military attaches sallors and soldiers attached to an embassy to report on matters of naval, or military concern Another class are commercial attaches who report on the commercial possibilities of the country to which they are sent.

Attachment in English law a write which a person is arrested, or attached. It is used in cases arrested, or attached It is used in cases where a person has disobeyed an order of the court. In such cases the court may order him to be attached, but he can avoid this by obeying the order, which may be the payment of a debt

Attainder Legal proceeding non taken ted, that is declared to possess tainted blood, if he was found gullty of treason or felony. The result was that his lands were forfeited and no one could inherit anything through him The custom began in England in the 14th century and was much used during the Wars of the Roses At this time bills of attainder were passed through Parliament and prominent persons were declared guilty of treason, or put to death Thomas Cromwell and later, William Laud, were executed after the passing of bills of attainder The last case of the kind was Lord Edward Fitzgerald in 1798 Attainder was abolished in 1870

## Attar of Roses See OTTO

Attestation Act of witnessing, or done by affixing the signature, but it may be done by oath In English law wills must be attested by two witnesses and deeds and other documents require one witness

In 1915-16 a form of enlisting for active service was introduced, and was known as the Derby scheme Under it men attested, or signed, an undertaking to come up for active service when required

Attica District of Greece in ancient times Attica It formed a peninsula on the east coast, lying between two arms of the Aegean Sea and contained Athens Its inhabitants had a very high standard of intelligence and culture which was attributed to the bracing air This reputation persisted and the best qualities of the Greek, the best speech, the best oratory, were all known as Attic. best oratory, were all known as Attic.

Attila King of the Huns He was born about 406 and in 434 he and his brother succeeded their uncle as rulers of the which is a consequence of its sins, by a belief in the atoning power of Christ.

The Day of Atonement is the great fast day of the Jewish year It is celebrated on the tenth day of the month Tishri, i.e., in Sept.

The Day of Atonement is the great fast day of the month Tishri, i.e., in Sept.

The Day of Atonement is the great fast day of the month Tishri, i.e., in Sept.

Attila's hordes now swept Byzantine Empire Byzantine Empire Attlia's nordes now swept across Germany and entered France reaching Orleans Actius, the Roman, and Theodoric, the Vandal, collected a great force to resist them and the battle took place on the Catal-aunian Fields, near Châlons, in June, 461, when the Huns were utterly defeated. They retired, but were soon on the march invading and devastating Italy Atti again, Attila died in 453, and the empire began to decay He was called the scourge of God. In 1932 it was stated that his tomb had been discovered in a village near Buda Pest

Attleborough folk, 16 m from Norwich, on the L N E Rly Pop 2450

Attock Town of the Punjab, India.

Attock It is on the Indus, 45 m from Peshawar It is important because it is on the main route into India, the one taken by Alexander and other inveders. Here is a bridge across the Indus Attock was founded as a fort in 1581 by the Emperor Akbar

Attorney Person who acts for another in legal matters A solicitor is therefore an attorney and before 1873 the official name for such was attorneys at law The word is still used in this sense in the

United States

The attorney general is the chief law officer of the British government. He is a member of the House of Commons and sometimes of of the House of Commons and Sometimes of the Cabinet, and his duty is to advise on matters of law and to conduct cases on behalf of the crown His salary is £2000 a year but before 1931 it was £7000, and he also receives fees He is knighted on appointment.

Power of Attorney is the authority given by one person to another to do business on his behalf It is done when a man leaves the country for a considerable time It enables he person who receives the power to deal vith his dividends and other income and in ceneral to act for him. It should be drawn up in proper form by a solicitor and must be stamped

Attraction Term used in physics for which causes particles to be attracted or drawn together This mutual attraction occurs whether the bodies are at rest or not. In chemistry the attractive force acting between atoms is termed chemical affinity, that between molecules of the same substance cohesion, and between molecules of different bodies adhesion capillarity is the attractive force by which liquids rise in tubes of very small bore. In all these forms of attraction the force acts through small distances, but when bodies tend to draw together through greater distances the torm gravitation is used. Magnetism and electricity are toward with manufact in and electricity are forces which manifest by attraction and its opposite repulsion

Aubergine Plant of the natural order Solanaceae It is an annual and is usually grown in Great Britain in pote, although it will thrive out of doors in the summer if in a warm sheltered position. It may reach a height of 3 ft and bears blue flowers. Its white or purple truit is shaped like an egg and the plant is sometimes called the egg plant. It is edible

Aubers Village of France. It is about Aubers of the north of La Bassée Near are some low hills about 100 ft. high known as the Aubers Ridge. On May 9, 1915,

known as the Aubers Ridge On May 9, 1915, the British made an attack on the ridge, but it falled with heavy losses

Auburn Village of Co Westmeath, Irish Free State, its real name being Lissoy It is 7 m from Athlone and owes its fame to the reference in Goldsmith's Deserted Village Village of Co Westmeath,

Auchinleck Town of Ayrshire It is 15 from Ayr, on the L.M.S. Rly The family of Boswell, to which James Boswell belonged, were lairds of Auchinleck and lived at Auchinleck House Here in 1715 Sir Alexander Boswell set up a printing press. The manu scripts from the house are now in the National Library in Edinburgh. The chief industry is 2021 minute. 2021 Minute. Library in Edinburgh The chief industry is coal mining Pop 3500

Auckland City of New Zealand. It stands on a fine harbour

on the coast of North Island and is connected by railway with Wellington and other places. The buildings include the Anglican and Roman Catholic cathedrals, many other churches, the town hall, government house and law courts A fine museum has been erected as a war memorial There is a university college and a grammar school and the city is well provided with parks. The industries include shipping for which there are large modern docks Timber, butter and other products are exported In April 1932, there were serious riots in the The April 1932, there were serious rices in the city, and a great deal of damage was done Thev were largely due to discontent on the part of public servants. Pop (1932) 218,400

The Province of Auckland, of which the city is the capital, covers about half of North

Island

Auckland Group of Islands Pacific Ocean. T 180 m south of New Zealand and cover 329 are The largest is Auckland, which covers 280 ag m and at the Parish and the Parish a 280 sq m and on it is Port Ross, with a good harbour The islands, which are uninhabited, belong since 1863 to New Zealand.

Auction Sale at which a person offers property for sale on the understanding that the highest bidder obtains it. standing that the highest bidder obtains it. The seller or vendor may put a reserve price on the property below which it will not be sold but it is illegal for him to employ a person, called a puffer, to bid up the price, unless he states openly that he is so doing By a law passed in 1928 it is illegal to offer con sideration to any person in order to induce him to abstain from bidding at an auction him to abstain from bidding at an auction sale. The person making the offer and also the one accepting it can be punished by fine or imprisonment A Dutch Auction is the reverse of an ordinary auction The property is started at a high price which is reduced by stages until someone makes a bid

Auctions are conducted by auctioneers. one can act as an auctioneer provided he takes one can act as an auctioneer provided he takes out a licence which costs £10 a year. Auctioneers usually combine their calling with that of a valuer or appraiser and some-times of an estate agent. They have a pro-fessional organisation, the Auctioneers & Estate Agents Institute at 29 Lincoln's Inn Fields, London W C This provides training for those who wish to enter the profession.

Auction Bridge Card game, a form bridge The essential difference is that the right of

The essential difference is that the right of making trumps is put up to anction instead of being taken by the players in turn Beginning with the dealer each player may bid in turn the one who bids highest securing the right to declare trumps. No trumps ranks highest and then follow spades,

hearts, diamonds and clubs The values per nearts, diamonds and cades. The values per trick are 10, 9, 8, 7 and 6 respectively. To secure the declaration a player must make the highest bid in points. Thus he will not secure it by bidding four clubs if an opponent secure it by blowing four clubs it an opponent bids three no trumps, because three no trumps (30) is higher than four clubs (24) Plavers can double and redouble a call and in this case the number of points lost or won is doubled or redoubled Thus, if a call of three no trumps is doubled and redoubled, the declarer, if victorious, will count 40 points por trick.

per trick As in ordinary bridge the one who secures the bid plays also his partner's hand which is exposed on the table He scores below the line, or towards game, for every trick made in excess of six, his opponents cannot score below the line Both sides, however, can score above the line, which does not count towards game, but adds to the points obtained Failure to make the number of tricks declared counts to make the number of tricks declared counts 50 each trick to the opponents Honours are scored according to a scale Little slam, or 12 tricks, counts 50 points, grand slam, or 13 counts 100 Game is made by the first side to score 30 points below the line and rubber by the first side to score two games Rubber counts 250 points above the line See BRIDGE, CONTRACT BRIDGE

Aucuba Hardy evergreen shrub of the laurel family It may be grown in shady places in the garden, or in large pots
It should be planted in March or October,
and can be propagated by taking cuttings
either sown in a frame, or rooted in the open in the autumn

Audenshaw Urban district of Lancashire, 5 m from Manchester, on the L M.S Rly It has engineering works and cotton mills Pop (1931) 8460

Audiphone Instrument for assisting hearing It consists of a plate of thin vulcanite bent and kept by strings in a certain degree of tension The edge is placed in contact with the front teeth and so by carrying the sounds to the brain makes them audible to persons with defective hearing hearing

The audiometer is an instrument invented in 1873 It is an electrical apparatus used to

test the sense of hearing

Audit Formal examination of the accounts of a company or association of any kind It is usually conducted by auditors who are trained accountants. The national accounts are audited by officials in the office of the comptroller and auditor-general

In former days the term audit was used for the occasion on which tenants came to pay their rent to their landlord. It was usually marked by a dinner or other feast, and at some of the colleges of Oxford and Cambridge a special ale, called audit ale, was brewed for use on these occasions

Auditor Person who audits the accounts of a company By English law every limited liability company must have an anditor who is elected by the shareholders He must examine the books and accounts of the company and make his report on the balance sheet. To day auditors are almost invariably chartered, or other accountants They are employed also to audit the accounts of municipal comparations and other public.

Audley Urban district of Staffordshire, from Newcastle-under-Lyne, on the LMS Rly It is a coal mining centre Pop (1931) 13,619

Audley End Village of Essex, just on the LNE Rly The house called Audley End is the seat of Lord Bravbrooke Built between 1603 and 1616, it is a magnificent house in the Elizabethan style and contains some wonderful treasures

Augean Stables In Greek legend by Augeas, King of Elis Hercules, as one of his labours, was ordered to cleanse these stables which held 3000 oxen. He did this by turning two rivers the control of the c by turning two rivers through them Augeas refused to give to him the promised reward of 300 oxen and thereupon he was killed by Hercules

Augsburg City of Bayaria, 37 m from Munich Its buildings include the cathedral and the churches of S Ulrich, S Anna, S Maurice and the Holv Cross, all with features of interest. The town hall, with its golden hall, the hall of the butchers, the arsenal and the Perlach Tower are notable secular edifices The Fuggerel, a collection of houses for the poor, was built about 1530 The Fuggernaus is one of several mansions dating from the great period of the city's history The gateways and bastions of the fortifications still stand and the city is adorned with several squares and some beautiful four forms. adorned with several squares and some beautiful fountains Augsburg manufactures cotton and woollen goods, and there are engineering works and paper mills

The city owes its name to the Emperor Augustus in whose time it was a Roman settlement In the Middle Ages it was a great trading and financial centre, one of the most important in Europe, and was a free city until 1806 when it was given to Bavaria. Pop 170,000

The Confession of Augsburg, drawn up in the city in 1530, is a statement of the Lutheran

city in 1530, is a statement of the Lutheran faith It was the work of Melanchthon

The League of Augsburg was formed in 1686 against Louis XIV of France who had just seized Strasbourg and other parts of Alsace Its members were the Emperor Leopold I, the Kings of Spain and Sweden, the Netherlands and several German and Italian princes In 1688 it was joined by Great Britain and it carried on the war against France that was ended in 1697 by the Treaty of Ryswick of Ryswick

Augur In ancient Rome a priestly official Their business was to foretell events from signs and omens, such as the flight of birds, the movements of beasts, etc

Augustan Age Name given to the Augustus ruled over the Roman Empire It was remarkable for its literary glories as Virgil, Horace, Livy, Ovid and others lived and wrote at this time In England the reign of Anne is sometimes called the Augustan are of Anne is sometimes called the Augustan age

Augustine English saint and archbishop He became a monk
and later prior of a monastery in Rome In
597 Pope Gregory I sent him to England
at the head of 40 monks to convert the English invariably chartered, or other accountants. The party landed in Kent and by the kindness. They are employed also to audit the accounts of King Ethelbert was allowed to settle in of municipal corporations and other public bodies. Canterbury In 597 Augustine was consecrated a bishop, and in 601 was made archbishop over England He died May 26, 604, and was buried in Canterbury Later he was canonised

Augustine Christian saint and theo logian Aurelius Augustinus was born at Tagaste in Tunis, Nov 12, 353, his parents being Patriclus, a Roman official, and Monica, a Christian He was educated at home and then went to the university of Carthage He became a teacher of rhetoric in his native town and then in Carthage, Rome and Milan

and Milan

In 387, having accepted Christianity, he was baptised He then passed some years in retire ment studying hard, before being made a presbyter and then a priest He was sent to assist the Bishop of Hippo and in 395 was himself elected bishop there, a position he held for the rest of his life He died during the siege of Hippo by the Vandals, Aug 28, 430

Augustine's writings include two books of supreme value One is his Confessions, perhaps the greatest work of its kind and one of com-

the greatest work of its kind and one of com-pelling interest, the other is De Civitate Dei (The City of God), a defence of the Christian Church, and its place in the world He also left many letters and sermons, and some commentaries on the Scriptures

Augustinian Order of canons in the Roman Catholic Church The date of its foundation is uncertain, but it was reorganised in the 12th century, and was strong in England, and more so in Scotland, until the Reformation The canons occupy The canons occupy nary clerical work, nmunities Their most with ordinary themselves although they live in communities famous house is the hospice on the Great S Bernard Pass, and they have several in England They claim to have been founded by S Augustine and are sometimes called Austin

canons There is a similar order for women
Augustinian, or Austin friars is an order of
mendicant monks dating from the 5th century
They had a house in London in the street called Austin Friars

Augustus Roman emperor, born Sept. 23, 63 BC, a son of Galus Octavius and Atia, a daughter of Julius Caesar's sister. After his father's death he was adopted by his uncle and took the name of Gaius Julius Cacsar Octavianus When Cacsar was murdered in 44 BC, he was studying away from Rome, but returned at once to take his place. Having been elected consul, he formed an alliance with Antony, from which sprang the triumvirate—Lepidus making the third member that restored order in Rome by a ruthless severity towards its enemies In 42 the triumyirs led an army against Brutus, who was killed at Philippi A breach with Antony followed, but this was soon closed, and the Roman realm divided among the three Octavian took the western portion and Antony the eastern, leaving Africa to Lepidus

Octavian next crushed the aspirations of

Pompey, and removed Lepidus from power before entering upon his final quarrel with Antony This broke out in 42 B c contributory causes being Antony's intrigues with Cleopatra in Egypt and his repudiation of his wife, a sister of Octavian Octavian's fleet under Agrippa won the famous sea fight at Actium in 31 B c, both Antony and Cleopatra after which

committed suicide

Octavian was now sole ruler of the whole Roman world A visit to Egypt was followed by a splendid triumph in 29 Bo, when the title of Augustus was given to him He already possessed the extraordinary powers bestowed

upon him by the Senate, but these, in 27 B C., he offered to resign Instead, further powers were given to him, including the command of the army with the title of imperator

For the next 41 years Augustus, as he was now called, was, except in name, an emperor with unlimited powers These years were a period of peace and prosperity of no ordinary kind The empire was well governed, special attention being paid to the provinces, although its borders were not extended Reforms of various kinds, financial and others, made casier the lot of the people and created the idea of Pax Romana, a world of ordered peace Rome was rebuilt, and its literary glories made the Augustan age He died Aug 19, A D 14 Reforms of

Augustus Name of two kings of Poland.
Augustus Froderick Augustus was born at Dresden, May 12, 1670, being a son of the elector of Saxony In 1694 he became elector of Saxony on the death of his brother, and in 1697 he was chosen King of Poland, taking the name of Augustus In 1704 he was defeated by name of Augustus in 1704 he was deleased by the Swedes and deposed, but he returned in 1709, and remained king until his death at Warsaw, Feb 1, 1733

Auk Two birds of the family alcidae The great auk, now extinct, is re-

Auk Two birds of the family alcidae The great auk, now extinct, is remarkable because it lacked the power of flight. It was about the size of a goose, with black plumage on the head, and was found in the northern hemisphere, especially Newfoundland and Spitzbergen It fed on fish, and laid a single large egg Great numbers were killed for the feathers, and the bird became extinct before 1850 The eggs are valued by collectors The little auk is still found in the northern hemi sphere It is about 8 in. long and can fly

Nickname of Edin-Auld Reekie burgh (qv)

Aumonier stacy English writer He was born in 1887, the son of a sculptor and was educated at Cranleigh School He became an artist, exhibiting at the Royal Academy, and also appeared as an actor chiefly in sketches written by himself. His reputation, however, was made by his writings, especially his short stories, of which a great number appeared in the magazines and in a volume form. He also wrote several novels volume form He also wrote several novels Aumonier died Dec 21, 1928

Aurangzeb Famous Mogul ruler of Hindustan He was born in November, 1618, and died March 8, 1707 He spent his youth in struggles with his brothers for their father s throne, and during his reign, his religious zeal, coupled with the growth of the Mahratta power, weakened his empire beyond repair

Roman omperor Aurelian Domitius Aurelianus was born of poor parents about 213, became a soldier and one of the generals of the Emperor Claudius On the death of Claudius in 270 he was de Aurelian Lucius On the death of Chaudius in 210 he was us clared emperor by the troops. His short reign was occupied in beating back the barbarlans who had invaded his empire, and in other wars. He crushed a rival who had set himself up in Gaul and was rewarded with the title of the restorer of the world, and a splendid triumph in Rome His other deeds included crushing rebellions in Rome and in Egypt, and in introducing reforms into the army and the state He was murdered near Byzantium while on a campaign against the Persians in 275

Aurelian began the building of the great wall in Rome which was named after him Parts of it still stand. It was 12 m. in circum-

ference and 60 ft. high Begun in 271, it was finished in 280

Aureole In Christian art the radiance or holy figure It should be distinguished from the nimbus, which surrounds the head only

Auricula Flowering plant. A native of Switzerland, it will also grow in Great Britain, where it is a popular garden flower It has a rosette of smooth leaves and bears flowers on the top of a leafless stem. The original auricula was yellow, but varieties in many colours have been produced The auriculas are suitable for the border and do well in ordinary soil In addition to the Alpine auricula there is a show auricula which is grown in pots in a frame, or in a cold green-house

Aurochs Large animal now extinct A kind of wild ox, it was found in Europe and from it the domesticated ox has sprung It seems to have disappeared in the 17th century, its last habitat being Lithuania Bones of the animal have been found in Great Britain, and these show it to have been an animal of enormous size

Aurora Goddess of the dawn and as such the goddess of youth and beauty She was the Latin equivalent of the Greek Eos, and was believed to rise every morning in the east and cross the sky in a chariot drawn by two horses Her husband was Tithonus

The aurora borealis is a phenomenon seen at night in northern latitudes It consists of beams of many coloured lights quivering in the sky It is seen in the north of Norway and in corresponding latitudes A similar phenomenon in the southern hemisphere is called the aurora australis, or southern lights The cause of the phenomena is unknown, but it has been suggested that it is connected with emanations of an electro-magnetic nature from the sun

Auscultation Medical term meaning the body. The method is employed by doctors who use the stethoscope for this purpose In this way they obtain some knowledge of the condition of the heart and the lungs

Austen Jane English novelist. A daughter of Rev George Austen, she was born at Steventon in Hampshire, Nov She was educated at home and in 1775 cultured surroundings, and read a good deal In 1801 she went to live in Bath and in 1805, her father being dead, moved to Southampton In 1809 she settled at Chawton, and died at Winchester, July 18, 1817 She was buried in the cathedral there

Jane Austen wrote six novels and these give her an assured place in English literature In order of appearance they are Sense and Sensibility, Pride and Prejudice, Mansfield Park, Emma, Northanger Abbey and Persuasion All but the last two were published anonymously The novels deal with a narrow social circle and lack entirely the elements of sensation and surprise, but within these limitations they are perfect. The characters are depicted with remarkable fidelity and consistency, and not a little humour. In 1871 Lady Susan, written when she was very young, was published. In 1928 The Walsons appeared, an unfinished novel completed by other hands. Her Late and Letters.

pleted by other hands Her Life and Letters have been written by W A and R. A. Austen Leigh, and there are many other books on her work and influence

Austerlitz Town in Moravia. It is about 14 miles from Brunn and is famous because here Napoleon won one of his greatest victories The French had just taken Vienna, and the Austrians were gathering help to recover it The Prussians had not yet arrived, but Austrian and Russian troops were arrived, but Austrian and Russian troops were assembled near Austerlitz, and there Napoleon decided to attack them Their strength was over 80,000, he had about 65,000 men On Nov 28 the two armies came into touch, and on Dec 2 the battle was joined At first the French were pressed back, but the emperor countered this by attacking the Russians' countered this by attacking the Russians' flank There was a desperate struggle, but in the end the Russians were driven back and a like fate was suffered by their reserves. The French cavalry and artillery did much damage and the allies lost altogether nearly 30,000 men. The French lost about 7000

Austin Alfred English poet. Born at Headingley, Leeds, May 30, 1835, he was educated at Stonyhurst, Oscott and the University of London He became a barrister, but worked as a journalist, being editor of The National Review 1883-93 He wrote a good deal of poetry, and in 1896 was made poet laureate He died June 2, 1913

Austin John. English jurist A inner of Son, he was born near Ipswich, May 3, 1790, and after entering the army turned to law, and in 1819 became a barrister John. English jurist A miller's He was made Professor of Jurisprudence in the University of London in 1826, a post he held until 1832 He died at Weybridge Dec. 1859, having passed some years in France and Germany

Austin's fame rests upon his writings, given first in the form of lectures They are contained in two volumes, The Province of Jurisprudence Determined and Lectures on Jurisprudence His definitions are remarkable for their precision, and are regarded as permanent contributions to the history of law He is responsible for the Austinian theory of law This confines law to the commands of a sovereign who has power to enforce it, and does not regard customs and usages which belong to an earlier age as within this category

Austin Sir Herbert. English manufacturer Born at Little Missenden, Bucks, Nov 8, 1866, he was educated as an engineer He spent a few years in Australia, but in 1890 returned to England and became connected with a firm making machinery for sheep shearing The possibilities of the motor-car soon attracted his attention, and in 1890 he started in business for himself at Northfield. Birmingham In a few years he was one of the largest makers of motor-cars in the country He was specially successful with the small cars known everywhere as "baby Austins" From 1919 to 1924 Austin, who was knighted in 1917, was MP for the King's Norton division of Plemingham division of Birmingham

Australasia Word used for Australia, New Zealand and their dependencies It thus includes, as well as Tasmania which is part of the Commonwealth of Australia, New Guinea, New Caledonia, New Hebrides, the Solomon and Fiji Islands, and other groups

Australia Continent, island and also a self-governing commonwealth under the rule of King George V, and as such part of the British Empire It covers 2 974,581 sq m and had, in 1932 a population estimated at 6,549,076 These figures include Tasmania,

seaport.

The Commonwealth was founded in 1901 when the six states, New South Wales, Victoria, Queensland, South Australia, Western Australia and Tasmania, were united in a federation Northern Territory, not being a state came under the rule of the Commonwealth which, in 1928, divided it into two parts, North and Central The Commonwealth has a foreign possession in Papua, and under mandate from the League of Nations administers the Bismarck Archipelago, part of New Guinea and certain of the Solomon Islands, formerly German colonies To serve as the federal capital a new city called Canberra was laid out In May, colonies To serve as the federal capital a new city called Canberra was laid out In May, 1927, the Parliament buildings there were opened by the Duke of York.

The Commonwealth is governed by a governor general, representing the king and a cabinet which is responsible to a parliament of

cannet which is responsible to a parlament of two houses. One of these is the Senate to which each state sends six representatives. The members of the other, the house of re-presentatives, vary in number according to the populations of the several states, but it was 76

in 1932

Australia's chief industry is the rearing of sheep for their wool, and the world's wool is largely supplied from here. Cattle are kept, and beef and mutton exported Agriculture suffers from the want of water on vast areas, but irrigation schemes have done much to woroome this handicap Wheat is extensively rown, and in the hotter parts—for one third of the country is within the tropics—cotton, sugar and the rarer fruits are cultivated. The vine is grown, and Australia produces a good deal of wine for export. Butter, flour and hides are other exports. Of minerals, the output of gold and silver is less than formerly Coal and lead are also mined, lead being especially an Australian product Timber is cut and exported

A high proportion of Australia's inhabitants live in cities and towns, and there manufactures of all kinds are carried on An important group is the one that turns the native metals into finished or semi finished articles Another is concerned with the preparation of foodstuffs, and a third with the splinning and weaving of cotton and other textile materials. Australia protects her industries by placetas. protects her industries by placing high tariffs upon imported goods Preferences, however upon imported goods Preferences, however are allowed on goods sent from Great Britain and some other parts of the Empire These vary according to the class of goods, but they are substantial, and provide a good deal of revenue Other revenue comes from an income tax customs duties, death duties and a land tax

Australia uses the British systems of colunge and weights and measures The Common wealth Bank a state institution, controls the issue of bank notes and the banking system follows the English model The legal system

which is not part of the island, but is included in the Commonwealth There are about 60 000 aborigines

The continent has a coastline of about 8000 m It extends for about 2000 m from north to south, and rather more from east to west Much of the country is a great plain, but there is a considerable mountain range, the Australian Alps, in the east. Mt. Kosciusko, 7300 ft, is the highest point The three great rivers are in being, and another, north to south, is the highest point The three great rivers are the Murray, Darling and Murrumbidgee, all in the east. Torrens is the largest of many lakes Sydney and Melbourne are the greatest centres of population, and Sydney the principal scaport.

The Commonwealth was founded in 1901 when the six states, New South Wales, Victoria, Queensland, South Australia, Western Australia House, Strand, London, WC In 1932 a new departure was the appointment of Northern Territory, not being a state came under the rule of the Commonwealth which, in the continents in London. in London

HISTORY—In 1685 Australia was visited by William Dampler, but the first settlement was only made in 1788, eighteen fars after Captain Cooks arrival By thus settling at Svaney the English obtained possession of the continent but for a time it was only used for convicts who were sent to Botany Bay About 1790 free settlers began to arrive, and these made their homes on or near the coast. Within the next fifty years or so the five states came into being, New South Wales being the senior Representative institutions were soon given and then followed responsible grovernment the last to secure this being HISTORY -In 1685 Australia was visited western Australia in 1890 During these years, especially between 1817 and 1874, the interior of the country was explored and surveyed

In 1851 the discovery of gold in Victoria led to an increase in its population

On the political side the chief event of the late 19th century was the desire for a federal union This came to fruition in 1901 Since then perhaps the outstanding features of Australia's political life have been the strength of organised labour, tested in several costly strikes and the twin determination to keep the country for the white man and to protect its industries against external competition

After 1901 the Government of the Common wealth was conducted by the party under Sir E Barton and Alfred Deakin that represented the more conservative elements in the country, although for a time the latter was only able to

E Barton and Aifred Deakin that represented the more conservative elements in the country, although for a time the latter was only able to remain in office by an alllance with labour In 1908 09 Andrew Fisher, the leader of the Labour Party, was Premier, as he was again in 1910 and 1914 15 In 1915 he was succeeded by his colleague, W M Hughes who romained in power until 1922 and represented Australia at the peace conference. His government was, however, in practice, a national one.

In 1922 Hughes was defeated and a Conservative, S M Bruce, became Premier. He was in office until 1929 when Labour again was successful at an election and its leader, J H Scullin, took charge of affairs. His period of office was marked by grave economic difficulties, the culmination of a policy of excessive borrowing coupled with serious falls in the prices of the commodities produced. The credit of Australia gave way and drastic measures.

prices of the commodities produced. The credit of Australia gave way and drastic measures were taken to support it, taxation was in creased expenditure reduced, imports restricted The interest on loans was reduced, and agreements made for balancing the Commonwealth and the state budgets.

In 1931 New South Wales refused to meet the

interest due on its loans in London and New York, but the Commonwealth shouldered the burden, and in 1932 passed legislation for the attachment of revenues in New South Wales to cover the payments made Mr Lang, premier of the state, opposing the Federal Government in its purpose, was dismissed by the Governor, Sir Philip Game Before this Mr Scullin had been defeated at a general election in 1931, and a Coalition Government had been formed under Mr J A Lyons, a former colleague In Western All J A LYONS, a former coneague in Western Australia at this time there was an agitation for secession from the Commonwealth, but the United Australia party held its ground, and was returned to power at the 1934 election Mr Lyons is still (1936) Prime Minister Since 1931 Australian finance has made a progressive recovery

In 1914 Australia sent a large contingent to assist in the war against Germany Conto assist in the war against Germany Conscription was rejected, but 400,000 men volunteered and nearly 60,000 were killed. The Australian corps did splendid service in Gallipoli and Palestine, but its feats there were more than equalled by those on the Western Front in 1917 and 1918, especially in and around Pozières. The Australian Navy did good service to the allied cause

Australia Day National holiday in 26, the anniversary of the day on which Sydney was founded It is sometimes called Wattle Day

Austria Republic of Europe, created in 1918 It has an area of 32,369 and m, and in 1931 had a population of 6,732,625 Its own people call it Oesterreich It consists of nine provinces, Burgenland, Lower Austria, Upper Austria, Salzburg, Carinthia, Styria, Tyrol, Vorarlberg, and the capital, Vienna The government is conducted by a president, elected, as in the United States, every four years, and a parliament of two houses. four years, and a parliament of two houses

four years, and a parliament of two nouses. The members of the Lower House (Nationalizat) are elected every four years, all men and women over 21 voting. The members of the Upper House (Bundesrat) are chosen by the parliaments or diets of the provinces. They can advise only. There is a council of ministers, or cabinet, responsible to the parliament. The cabinet, responsible to the parliament. The national flag has three horizontal stripes, the top and bottom being red and the centre white Vienna is the largest city Other populous places are Graz, Linz Innsbrück and Salzburg In 1922, when the finances of the new country

were in a serious condition, the League of Nations appointed a committee to inquire into the matter A loan was raised, and many reforms were carried out, the result being that Austria's financial condition became, for the time being, satisfactory In 1929, however, fresh difficulties arose, and in 1932 the financial position was again very grave In April a conference met in London with the object of finding out how Austria and the other Danubian states could be saved from bankruptcy In 1933 Dr Dolliuss (assassinated, July, 1934) became dictator, taking over the entire state executive

The basis of the comage is the gold schilling, a new coin worth 10,000 kronen The coins in circulation are mostly token money The National Bank, opened in 1923, is a private, not a state, institution

Austria has an army, but not compulsory service. Her only navy consists of a few gunboats on the Danube By the treaty of S west of the city bet and the Seine Re 30,000 men The same treaty forbids the

country to have an air force, or to manufacture or import aircraft. Plying for commercial purposes, however, is developing, and Vienna is an important air port

Although many people work on the land, Austria, like Great Britain, imports food stuffs Wheat, rve, barley, oats and potatoes are grown Sugar and tobacco are produced, and there are some manufactures Coal and iron ore are mined, and a good deal of turber is cut. Tariffs are charged on all goods entering the Some of the railways are owned by country the State

There is much traffic on the Danube, but Austria has no scaports A canal to unite the Rhine and the Danube now (1933) being cut. will it is hoped, be of great benefit to the country Austria has a Consul-General at

18 Belgrave Square, London S W.1
Austria was originally a mark or border district on the Danube, being the East Mark In 1156 it was made into a duchy, and in 1282 it passed under the rule of a member of the Hapsburg family, a rule that lasted until 1918 Enlarged at the close of the Middle Ages it covered about 50,000 sq m From the time of the emperor, Charles V, its rulers were also heads of the Holy Roman Empire, and historians of the 17th and 18th centuries use Austria and the Empire as synonymous terms In 1804, just before the Holy Roman Empire was dissolved, the Emperor Francis took the title of Emperor of Austria, and this empire lasted until the close of the World War Its symbol was the double-headed eagle which its rulers took as successors of the old Roman emperors

Austria-Hungary Empire of It lasted from 1867 to 1918, and had only two rulers, Francis Joseph and Charles It was formed in 1867, when Austria and Hungary made an agreement or Ausgleich much as England and Scotland did in 1707 Before that time they had been quite independent of each other, although ruled by the same sovereign It was often called the Dual Monarchy, and its loint affairs were looked after by three departments of state, each under a minister, and by two delegations, as they were called one re-presenting each country. The monarchy broke up as a result of the World War and Austria and Hungary again became independent of each other

Austria-Hungary had an area of 261,000 sq m and a population of over 50,000,000 It consisted of the various provinces of Austria, of Bohemia, Silesia, Moravia and other dependent districts, and of Hungary, including Croatia-Slavonia Bosnia and Herzegovina were added in 1878

Austrian Succession War of the European war It began in 1740, when Frederick the Great of Prussia invaded Silesia, and ended with the Peace of Aix-la Chapelle in 1748 It was caused partly by Prussia's desire for revenge on Austria for alleged double dealing, partly by the movement of Prussia's desire for revenge on Austria for alleged double dealing, partly by the growing spirit of Prussian aggrandisement. It involved most of the great European nations, France, for diplomatic reasons, especially urging the partition of Austria and the election of the Elector of Bavaria as Emperor

Auteuil Suburb of Paris, famous for its racecourse It lies to the southwest of the city between the Bois de Boulogne and the Seine Races take place here nearly

Author

Person who produces or creates appeared in America about 1850 60, and is appeared to day with the planchette. It is associated to day with the planchette associated to day with the planchette is associated to day with the planchette. It is associated to day with the planchette is associated to day with the planchette. It is appeared in America about 1850 60, and is appeared to day with the planchette. It is appeared to day with the planchette. It is appeared to appear and the planchette. It is appeared AUTHOR creates a piece of literature or music whether novel article play poem opera or sonata. The writing is the author's property until he also be also be

that exists to protect the interests of muchos It was founded in 1883 and any writer can become a member on payment of a small become a member on payment of a small become a member on payment of a small gower subscription. The offices are at 11 Gower Street, London WO The Authors, Club is at 2 Whitehall Court, SW 1 See Cory RIGHT Authorised Version See Bible

Autobiography by oneself Notable by oneself Notable by oneself of Blography and John Stunrt Mill The famous Cellini and John Stunrt Mill The famous Cellini and John Stunrt Mill The famous on Stunry of Pepys Is an autobiography, as is the Diary of Pepys Is an autobiography, as is the Confessions of Roussean the Confessions of Saugustine the Confessions of Saugustine of an Opium Ealer by De Quincey and the Apologia of J H Newman Sir E Gosse & Apologia of Sir Bather and Son is an excellent modern example Apologia of J Howalian Silver Example Father and Son is an excellent modern example

Autochthones always lived in country its first or original inhabitants is therefore equivalent to aborigines (q v)

Autocracy

Autocracy

does as he likes
they were known to the Greeks and others of the ancient world

The Government in the Greeks and others of t

autocracy

Auto da Fé (Act of faith) Name given associated to a ceremony associated to a ceremony associated with the Spanish Inquisition After sentence had been passed on heretics, a procession and service took place the chief figures therein being the officials of the Inquisition and the condemned persons Mass was celebrated and the judgment read out. The sentence which was demned arried out, usually took the form of the carried out, usually took the service to the auto da fé its sinister meaning to the auto da fe its sinister meaning

Autogiro See GYROPLANE

Autograph Originally a document in one's own handwriting one's own handwriting A document in the control of the

To-day it means a signature only A document wholly in one handwriting is called a holograph. The collecting of autographs is a hobby with many persons and some collections are very valuable. One of the best was that made by the late Alfred Morrison of Basildon Park the late Alfred Morrison of Basildon ask their Reading Albums in which persons ask their friends to write their autographs were popular in the 16th and 17th centuries and there are examples in the British Museum.

Autolycus Hermes, he lived at the foot of Mt Parnassus, and was known as a thief of Mt Parnassus, and was known as a touched As he could change everything he touched he was very successful in escaping detection he was very successful in escaping detection but at last Sisyphus thought of a ruse He he was very successful in escaping detection but at last Sisyphus thought of some cattle but at last sisyphus the which Autolycus quickly stole which Autolycus quickly stole found them when visiting the thief

writing which psychic subjects produce when in Ava writing which psychic subjects produce when in Ava Irrawaddy River, 10 m. from Mandalay a trance or semi hypnotic condition it first

nsed offectively in connection with investigation into abnormal mental states.

Automatism Theory that all the actions Theory that all the actions of living beings men in cluded are automatic that is, they are brought about by the action of the body, not by the action of the brain The brain or will, according action of the brain action or will, according to this doctrine does not originate or cause any action, it merely records it. This idea was taught by Descartes

Automates

Automaton itself strictly an automatic machine More commonly however, it matic machine More commonly however, it means the figure of a man or animal or bird means the figure of a man or animal or office that does certain actions such as walking or singing by itself Automatons of this kind tint does certain actions such as waiking or singing by itself Automatons of this kind were made by the Greeks and through the ages were made by the Greeks and through the above them in ingenious men have tried to produce them in ingenious men may be a N Maskelyne produced them are the state of the state and also do problems in figures The robo

Automobile Usual word in the United States for the motor car AULUHIUDHE States for the motor car In Great Britain the great motoring societies use it, eg the Royal Automobile Club and the Automobile Association The former was Mail, London S W 1, and it has a country at Club at Woodcote Park Epsom There is a club at Woodcote Park to the countries of the country and the similar club in Paris and other countries. The Automobile Association exists to look after the interests of motorists as regards using the roads interests of motorists as regards using the Interests of motorists as regards using the roads interests of motorists as regards using the roads and such matters. It dates from 1905 and its headquarters are at Fanum House New Coventry Street London W 1

Autoplasty place a damaged or lost place a damaged or other parts of the body by using skin, bone or other tissue from other parts of the same body it was employed in England many same tissue from other parts of the same body at was employed in England many years ago During the Great War much progress was made During the Great War much progress was made and some extraordinary feats of autoplast were performed Skin, bone and flesh wornafted on to injured parts and terrible distribution of the successfully dealt with figurements were successfully dealt with

Autopsy internal examination of a dead of the called a post mortem To perform this operation a medical mortem To perform this operation a medical mortem To perform this operation a medical man must obtain the consent of the relatives man must obtain the consent of the deceased, unless foul play is suspected in this case the Home Office or the coroner In this case the Home Office or the coroner may order on autoper May order on the France, on the Saone Autum Arroux in the department of Saone Line of Saone It is famous for its eathedral

et Loire It is famous for its cathedral There et Loire It is famous for its cathedral There are remains of several Roman buildings including two fine gateways The town has manufactures, and agricultural produce is marketed here Pop 15 500 District in the centre of

here Pop 15 500

Auvergne France It was once a separate province and had its own dukes Before the Revolution it was divided into two Before the Revolution at wins divided into two parts the capitals being Aurillac and Clermont. In the west are in the Auversne Mountains, in the two capitals with the capital with the capitals with the capital with

Auxerre Young 110 m to the SF of Paris Its chief glory is the beautiful cathedral with its Gothic choir and the stained glass with its Gothic choir and the department of Auxerre 1909 22,000 Deserted city of Burma on the Ava Irrawaddy River. 10 m. from Mandalay

From 1364, when it was founded, until 1782 it was the capital of Burma It was again the capital 1823 37 In 1839 an earthquake did much damage and the city's importance gradually declined There are remains of its walls and palaces and of several temples Lord Dufferin took the title of Marquess of Dufferin and Ava, and his eldest son is called the Earl of Ava

Avalanche Gigantic mass of snow or carth, which falls from the mountains into the valleys It often causes great loss to life and property These falls occur chiefly in the Alps Scientists have divided avalanches into four kinds A drift avalanche is just snow driven by the wind A rolling avalanche is a mass of hard snow that rolls down and gets larger as it goes on A sliding avalanche is one that moves by its own weight, which also gets greater as it goes The most dangerous are glacial avalanches These are masses of frozen snow and ice, which in spring, when the snow begins to melt, break loose from the parent glacier and begin to move See GLACIER.

Avalon To the Celts the place to which the heroes went at death. There they feasted and rested after their deeds of valour Thither, according to Malory, King Arthur was taken, after he had been wounded Tennyson makes use of this legend in The Idylls of the King, calling it the "island valley of Avillon" Avalon has been associated with Glastonbury, but there is no warrant for this

Avars Tribe, or group of tribes They came from Asia into Europe, where the Emperor Justinian made use of them to conquer the Bulgarians They settled down in Pannonia, the modern Hungary, and were very troublesome neighbours to the Byzantine Empire, as well as to the Franks, Lombards and other peoples to the west of them. In 796 Charlemagne put an end to their raids

Avebury Village of Wiltshire It is 7 m west of Marlborough, and is noted for the monuments of the Druids that have been found there These are circles of stones, the outer circle being about 500 yds in diameter Some of the stones are as much as 20 ft. high, and 12 ft. thick Scholars think they formed a Druid temple

Avebury Lord John Lubbock was born in London, April 30, 1834 He went to Eton, became a baronet on his father's death, and from 1870 to 1900 was an MP, first as a Liberal, and then as a Liberal-Unionist He was a banker, an hereditary calling in his family, but he is better known for his books and for his work in securing bank holidays, which was done by an Act of 1871 His books were very popular indeed, especially parhaps The Pleasures of Life, The Use of Life, and those about ants and bees In 1900 he was made a baron and he died at Kingsgate, near Margate, May 28, 1913

Avens Plant, a species of geum There are two kinds, common avens and water avens They are perennials, and belong to the order rosaceae The common avens grows in hodgerows nearly all over Great Britain It has flowers of the water avens which grow in damp places are much larger

Aventine One of the seven hills of Rome It is on the left hand of the Tiber to the SW of the Palatine Servius Tullius, one of the early kings, made it part

From 1364, when it was founded, until 1782 it of the city and on it built a famous temple to was the capital of Burma It was again the Diana. For long the hill was the plebelan capital 1823 37 In 1839 an earthquake did quarter

Aventurine Name both of a stone used for ornament and a glass made chiefly in Venice The stone, which is found in the Ural Mountains, is reddish brown, or greyish brown in colour and has a brilliant look The glass, however, is more brilliant in appearance

Average In the ordinary sense the mean obtained by adding together the figures and dividing the total by their number Thus, if a man on six days works these hours 6, 7, 8, 4, 5, 6, or 36 hours altogether, he works 6 hours

a day on an average

All insurance is based on averages, the average ages at which people die, the average number of accidents in a given industry, and many others In marine insurance average is used in a special sense Losses to cargo are worked out either on a general or a particular average This work is done according to elaborate rules by skilled men called average adjusters

On the Stock Exchange, to average is to buy some more shares at a lower price than was given for those already bought

Avernus Lake in Italy, 100 m from Naples, and once the orater of a volcano It is 2 m round The ancients looked upon it as the entrance to the infernal regions, hence Virgil's line Facilis descensus Averno The Romans made it a harbour and cut a canal to link the lake and the sea In 1536 these works were destroyed by an earth-quake

Averroes Name given to the Arab philosopher, Abul-ibn-Roshd In 1126 he was born at Cordova, and he became both a lawyer and a doctor He died, Dec. 12, 1198 His name lives, however, because of his Commentaries on Aristotle, for whose teaching he had a profound respect He took Aristotle's ideas and gave them a new currency, founding a school of thought to which Roger Bacon belonged This flourished for many years, and Averroes was regarded by several generations as the great exponent of Aristotle's ideas

Aviary birds are kept in captivity An aviary should be of metal, as such can be kept clean more easily than wooden ones Care must be taken in selecting the birds, as some birds do not agree well with others Birds from tropical countries need special temperatures, and food and drink must be carefully provided In Great Britain to-day the tendency is to replace the aviary by the bird sanctuary, which has the great advantage of giving a freedom which the best aviary cannot do This, however, only applies to domestic birds, foreign birds, if kept, still require an aviary See Bird

Aviation Science and practice of flying machines, or aeronautics. There is little to choose between the two terms, but aeronautics is perhaps the more generally used Scc Aeronautics.

Avignon City of France, standing on a Marseilles, on the direct rallway line from Paris The chief building is the great palace in which the Popes lived from 1309 to 1378 Near is the cathedral of the Nôtre Dame dating from the 12th century and round the city are the old walls. There are some manufactures. The city

remained the property of the Pope until 1797, when it was sold to France Pop (1931) 57,228

Aviona Alternative name for the capital Valona of Albania, generally called

Avoca Vale in Wicklow, Irlsh Free State spots of the country The little rivers Avon more and Avonbeg unite to form the Avoca, which runs for nine miles to the Irlsh Sea at Arklow The valley through which it flows is the Vale of Avoca, about which Thomas Moore wrote some famous lines It is one of the few parts of Ireland where minerals are found

Avocet Genus of birds Their charac teristics are red feet, long legs, bare thighs and a long, slender bill curving upwards They are found nearly all over the world, but not in England, although at one time they were common in the fen district.

Avogadro Amadeo Italian scientist He is famous for the discovery of a law which is named after him Briefly stated Avogadro's law is that under the same conditions of pressure and temperature equal volumes of all gases contain an equal number of molecules Born in 1776 he was Professor of Physics at Vercelli, and then Professor of Mathematics at Turin. He died in 1856

## Avoirdupois System of weight in use in Britain and America

16 drams — 1 conce (or.).
16 conces — 1 pound (b) .
28 pounds — 1 quarter (qu.) 4
4 quarters or
113 pounds — 1 hondredweight (cwt.)
90 hundredweights — 1 too

In it also a stone of 14 lb is used The word is of French origin, meaning goods of weight. Its basis is a grain of wheat, and a pound is supposed to be equal in weight to 7000 grains

Avon Three short rivers in England and water The Warwickshire Avon is nearly 100 miles long, and is associated with Shakespeare as it flows past Stratford. It runs from Naseby in Northamptonshire, past Warwick and other places, to the Severn at Tewkesbury The Bristol Avon rises in the Cotswolds and flows by Bath and Bristol to the Severn at Avon mouth It is 70 miles long and carries the shipping of Bristol. The Wiltshire Avon is only about 50 miles long It flows from Devizes past Salisbury, to the English Channel at Christohurch One of the Scottish Avons is in Banffishire, a tributary of the Spey The other, in Lanarkshire, is a tributary of the Clyde Each is about 30 miles long

Avonmouth Seaport of Gloucestershire the Avon 6 m from Bristol and is the outport of that city It was founded in 1877, and its docks can accommodate very large vessels The GW and LMS Rlys run into it

Avory Sir Horace Edmund English lawyer Born Aug 31, 1851, he was educated at King's College, London and Cambridge He became a barrister and in 1889 was made junior counsel to the Treasury There he earned a great reputation as a prosecuting counsel especially in criminal cases. In 1910 he was made a judge and he has tried some of the most censational cases of fraud such as the Hatry case in 1930 He died June 13, 1935

Avranches
Town of France, on the west side of the Contentia, the peninsula that juts out into the English Channel, 7 m from Cherbourg In its splendid cathedral, which was destroyed at the Revolution, Henry II was solemnly pardoned for his share in the murder of Becket A stone in the square shows where he knelt on that occasion Pop 7000

Awe Loch in Argyllshire It is the longest in Scotland, and one of the most beautiful It is 23 m long and covers about 15 sq m Its width varies the broadest part being 3 m across There are several islands in the loch, and on these are ruins of a castle and churches dating back to a time when the country population was greater than it is to-day The little river Awe, only 5 m long flows from Loch Awe to Loch Etive, through the Pass of Brauder It is a good salmon river The loch is reached from Oban, 22 m away

Axenstrasse Highway in Switzerland, part of the S Gotthard Road It is really a tunnel through the solid rock and runs for 7 m by the side of the lake of Lucerne It was finished in 1866

Axholme District in the north of Lincolnshire Called an island, it lies between the rivers Don, Idle, Torne and Trent. It covers about 75 sq m and the soil is very rich At one time it was a marsh, but about 1630 it was drained by the Dutch engineer, Cornelius Vermuyden Epworth and Crowle are on the island, which is famous for its potatoes

Axinite Mineral also called exestone because the Maoris and others use it for the heads of axes Very hard, it is greenish in colour and is found in Cornwall as well as in China and other parts of Asia

Axminster Urban district and market town of Devonshire It is on the River Axe, 27 m from Exeter and 146 from London, on the S Rly It gives its name to a variety of carpet, but this is no longer made in the town Pop (1931) 2327

Axolotl Larva, or early form of the sala mander Found in North America, it resembles a large newt and for long was believed to be a kind of newt It becomes a salamander when it is deprived of water, and so loses its gills

Aye-aye curious animal belonging to the Aye-aye lemur family, it is only found in Madagascar Very little is known about it, although there are specimens in European zoological gardens. About the size of a cat, with a very bushy tail and paws like those of a monkey, it lives chiefly on insects prowling about for them at night, but will also cat sweet vogetables. A strange feature is its middle finger, which is long and thin

Aylesbury also the county town of Buckinghamshire It is 41 m. from London, and is on both the LNE and LMS Rlys It has large printing works and other manu facturing establishments, but lives largely on its agricultural trade Around is the Vale of Aylesbury, with some of the richest land in England. The King's Head and some houses date from the 15th century The town gives its name to a duck bred in the district chiefly for the table Pop (1931) 13 382

for the table Pop (1931) 13 382

Aylesford Village of Kent It is 38 m from London by the Southern Rly and 3 from Maidstone It is visited because here is a famous cromlech called Kit's Coty

the invaders of England was killed in 455

Aylesford Earl of English title held by the family of Finch Hencage Finch, a son of the first Earl of Nottingham, a prominent lawyer in the reigns of Charles II and James II, was made an earl in 1714, five years before his death The title has since been held by his descendants. The earl's estates are in Kent and his eldest son is

called by courtesy Lord Guernsey

Aylesham Town of Kent, just outside

Dover It was planned in 1921 as a garden city, and houses the workers at the Snowdown Colliery 400 houses have been built, and the place has a population of about 2,500 Through the centre of the town is a boulevard 100 ft wide This runs into a market square, and on either side of it streets

Ayr Burgh and county town of Ayrshire, also a manufacturing town, a seaport and a watering place It stands at the mouth of the River Ayr (33 m long), 40 m from Glasgow, by the L MS Rly The town itself is on the right bank of the river, the suburbs of Newton and Wallacctown are on the left. There are engineering and chemical works, and factories for making woollen goods The harbour is equipped for dealing with coal, the chief article of trade

Race meetings are held four times a year. The historic interests include the "Twa Brigs"

made famous by Burns S John's Church and the Wallace Tower are reminders of the town's important past Pop (1931) 36,784

Ayrshire County of Scotland It has a long line of coast facing the Irish Sea In olden times it was divided into three parts, Carrick, Kyle and Cunningham It is 79 m long and covers 1132 sq. In the south 79 m long and covers 1132 sq m In the south 19 m long and covers 1132 sq m in the south are some hills, but elsewhere the country is mainly flat Ayr is the capital Other towns are Ardrossan, Kilmarnock, Irvine and Saltcoats Smaller ones include Troon, Beith, Fullatton, Cunnock and Stewarton There are a number of short rivers, Ayr, Irvine, Gurnock, Doon and Girvan, and several lochs Farming is the chief occupation but there are some coll mines. The occupation but there are some coal mines The county is specially noted for its cows and its cheese

For the visitor the chief interest of Ayrshire is its association with Burns James Boswell Other places of is another famous native interest include Turnberry Castle and Crossroguel Abbey, both in ruins. Shire family is the Kennedys The great Ayr-Prestwick with ty Pop (1931) its golf course is in the county 285,182

Aytoun William Edmonstoune Scottish Jan. 31, 1812, and educated there and in Germany He became a lawyer, but spent much of his time in writing Besides writing the Bon Gaullier Ballads, in which he was helped by Sir Theodore Martin Artony mode two collections Theodore Martin, Aytoun made two collections, Ballads of Scolland and Lays of the Scottish Caraliers He died Aug 4, 1865, having been for some time Professor of Rhetoric at Edinburch University

burgh University

Ayuthia City of Siam Until 1767 it was built on piles in the middle of the River Menam, 42 miles from Bangkok, and has some notable ruins of Hindu temples Pop 12,000

IJ

House, and other remains of early man Near here took place the fight in which Horsa, one of the invaders of England was killed in 455 | Azalea Genus of deciduous shrubs belonging to the order Ericaceae, and botanically allied to the rhododendron. the rhododendron. Originally brought from North America, China and Japan, they have been extensively cultivated in England both for garden and greenhouse They are largely grown in Holland and Belgium for export A British variety A procumbens is found on some Scottish moors

Azerbeijan Soviet republic allied to the USSR To the west of the Caspian Sea it is about the size of Scotland, being 32,686 sq m in extent. Its population is about 500,000 They are mostly peasants engaged in growing corn, cotton, vegetables and other products, and in keeping cattle, but some are employed in and around Baku in getting and refining the oil In race they are mostly Tartar The capital is Baku

Azimuth Word used by astronomers for the distance of a star in angular measure from the north or south point of the

meridian, as the case may be
AZO Word, much used by chemists, meaning without life It is a shortened form of azota, a name given by Lavoisier to nitrogen Azo-compounds, therefore, are organic sub-stances derived from aromatic hydrocarbons which contain nitrogen in the molecule Azobenzene is one of the most important, and its derivatives are very useful dyes

Azores Group of islands in the Atlantic Ocean They belong to Portugal, which is some 900 miles away, and cover altogether about 922 sq m The largest, in order of size, are S. Michael's, Terceira, Pico, Fayal, S. George and Graciosa Angra do Heroismo on Terceira is the capital Ponta Delgada on S. Michael's is the largest town: Ponta and Horta, the capital of Fayal, has the best harbour The climate is very mild The inhabitants are mainly of Portuguese descent

They earn their livelihood by growing fruit, tea and sugar, fishing and making baskets and other articles, as well as wine Pop 253,596

Portugal secured these islands by colonising them in the 15th century Off Flores took place the famous fight between Sir Richard Grenville in the Parence and the Spanionds

the famous light between Sir Kichard Grenville in the Revenge and the Spaniards

AZOV Sea of Gulf in the south of Russia It lies to the north of the Black Sea, is 220 m long and covers 14,660 sq m The Stratt of Kertch, or Yenikale, joins it to the Black Sea Its currents make navigation difficult, but there are some seamorts on the coast notably are some seaports on the coast, notably Taganrog and Mariupol The Don flows into it and its waters are almost fresh The town of Azov stands on the Don, about 10 m. from the sea

Aztec Indian people living in Mexico when the Spaniards invaded it in the 15th century The name is that of the and to which they are said to have come when they settled in Mexico about 1100 There they founded a powerful kingdom, their capital being where Mexico City now stands This was where Mexico City now stands This was destroyed by Cortes in 1519 The race and its language still survive, the latter is a Nahua dialect spoken to-day by about a million persons

of Aztec blood
The Aztecs knew something of astronomy,
and had their own method of reckoning time. They used picture writing, worshipped many gods, and their priests had great power. Human sacrifices were demanded.

Heathen doity The word AAL means lord and was given, therefore, to a number of gods, but it was never the name of a particular one unless the Baby lonian Bel is a form of Baal The Semites had a host of Baals, gods of springs, trees, animals, and other things, and the Jews were constantly attracted to the worship of one or other of

them Baal worship may be described as the worship of the male forces of nature In some places, but not in all, Baal was the sun god

Baalbek Former city of Syria, 35 m by the Phoenicians, and was soon a centre for the worship of their god, Baal Its ruins, mainly from Roman times, include two massive temples, dedicated to Jupiter and Bacchus, the great Temple of Jupiter and the Acropolis, excavated in 1902-3 Baalbek was an important place until the time of the Crusades, and later, when it belonged to the Arabs From 1840 to 1918 it was Turkish In Oct., 1918, it was entered by British troops.

Babar Founder of the Morul Empire A in 1526, he burst into India, took Delhi, Agra and other places, and set up his empire, Agra being his capital He died in 1630 Babar wrote some Memorrs which have been trans lated into English, and also some poems. His name means 'tiger,' a tribute to his ferocious name means character

Small seaside resort, just outside Torquay Babbacombe It is a very popular place for pleasure seekers, but is remembered in a more gruesome con nection In 1885 John Lee was charged with having murdered his employer, Miss Keyse, in her house here He swore innocence, but was found guilty and sentenced to death Three times the hangman tried to execute him, but each time was unable to do so Lee, therefore, was keys in 1907. was kept in prison until released in 1907 KENT'S CAVERN

Babel Tower built by the ancients It was ants of Noah against the will of God, who destroyed the plan by making the builders talk a variety of languages The builders hoped, by its means, to escape the consequence of another flood. It has been thought that the tower was built at or near Babylon and there the ruins of two towers have been discovered, but nothing certain can be said on the subject To day the word babel is used for noise or confusion

between Bap-el-IVI anded Asia and Africa, leading from the Indian Ocean to the Red Sea Perim is in the strait, which is divided by that island into the large and the small strait The Arabs call it "the gate of tears" in memory of many dieneters therein Bab-el-Mandeb many disasters therein

Babeuf François Nool. French politician He was born at S Quentin, Nov 23, 1760, and was a clerk when the Revolution when there were serious disasters in Paris, he was again prominent, suggesting a new roign of terror He was arrested, and executed May 27, 1797

Word describing a form of Babusm Mohammedanism that arose in Persia about 1843 It is named after its founder, who called himself Bab el Din His teaching became very popular, but the shah and his ministers disliked it, and, in 1850, Bab was taken and executed. The sect, however, flourished, and his followers are still found in China, India and Japan, as well as in Persia, and a few in the United States Bablism contains inter mixtures of Christianity and Buddhism, and is free from some of the crudities of Mohammedanism For instance, Bab taught the equality of women with men He believed he was the incarnation of God

Babington Anthony English politician the was the son of a rich man in Derbyshire, and when Mary, Queen of Scots, was a prisoner at Sheffield, was one of her pages In 1586, being then 25 years old, he formed a plot to free the queen, but spies told the authorities in London Babington, with other plotters, was arrested, and executed, London, Sept 20, 1586

Babirusa Curious animal of the same family as the pig In the male the upper teeth are not in the mouth at all, but grow through the skin of the face, and then turn backwards over the forehead It is found in certain parts of the East Indics

Baboon Kind of monkey They belong to the genus called dog headed, a mandrill being an example Feroclous, ugly and strong, they can travel easily on all fours as their arms and legs are about equal in length The baboons are natives of Asia and Africa, and live chiefly in rocky places

Babu Hindu designation Its English by it a native of India who knows a certain amount of English, an Anglicised Hindu

Babul Tree of the acacia family Its wood is suitable for sleepers, and it produces arabic. A dye for tanning is obtained duces arabic from the bark

Babuna Pass in the Balkans, in Serbia, on the road from Veles to Monastir Here in Nov, 1915, a battle was fought between the Serbians and the Bulgarians, who forced their way through the pass

Baby Farming Practice of taking babies for payment Baby farming led to so many abuses that Parliament intervened, 1871 A series of measures, culminating in the Children Act, 1908, has considerably checked a traffic which frequently caused the death of children whom the "farmers" found it profitable not to maintain.

Babylon Ancient city of Asia It stood south of Bagdad, and was the capital of the Babylonian empire Its great period was from about 1800 500 BC, but its foundation may go back 3000 years earlier, or even more it stood on both sides of the river, and as recent excavations show, was an engrouse city broke out. He soon made himself conspicuous go back 3000 years earlier, or even more as a leader He started a paper and had the it stood on both sides of the river, and as courage to stand up to Robespierre. In 1796 recent excavations show, was an enormous city

filled with magnificent palaces, temples and other buildings. Its hanging gardens were counted one of the seven wonders of the world

Its ruins cover something like 50 sq m
In 689 B c Babylon was partly destroyed by
Sennacherib, but was rebuilt and in the time
of Daniel was at the height of its glory When Cyrus took it from Belshazzar it passed to the Persians Alexander the Great, who died here, included it in his empire, but after his time decay set in and it was soon a deserted mass of ruins Excavating work has been done on the site, and discoveries are constantly being made

Babylonia One of the great empires of the ancient world Babylonia is sometimes called the land of the Chaldees It was the country through which the Tigris and the Euphrates flowed, the

modern Iraq

The country was probably inhabited by civilised man as far back as 9000 B C, but little civilised man as far back as 9000 BC, but little is known of it before 4300 BC. It was at first divided into a number of City States. The chief people were the Sumerians, to whom Babylonia owes its earliest culture, in the south, and the Akkadians in the north Of the City States the chief were Akkad, Lagash, Ur, Kish, Erech, Sippar, Opis, Umma and Adab Each was ruled by a patesi, as he was called, but later kings appeared. The greatest of these was Sargon, King of Akkad, who lived about 3800 BC.

who lived about 3800 B C

About 2300 BC the Kingdom or Empire of Babylonia came into being and survived until 539 BC Of its first dynasty the greatest king was Hammurabi, the law giver, who founded Nippur and by his wors made his country larger and greater Other dynasties followed, but before 1200 BC the power of Babylonia was on the wane To some extent it was restored by Nebuchadnezzar I. who lived about stored by Nebuchadnezzar I, who lived about 600 BC but he could not bring Assyria again under the rule of Babylonia

A second period of decline was checked, although only for a short time, by a second Nebuchadnezzar, the king of the Bible story After his death in 561, however, the end came quickly In 539 the Persians entered Babylon

The Babylonians had good houses, a know-ledge of art and letters, and an elaborate system of law Their religion was polytheistic, Bel being their chief god, and the priesthood was very powerful

The Babylonian Captivity is the name given to a series of three deportations of the Jews by Nebuchadnezzar, as mentioned in the book of Jeromiah The captivity gave rise to some of the most touching of the Psalms After the overthrow of the Babylonian Empire by the Persians the return to Jerusalem took place, under the leadership of Ezra and Nehemiah (qv)

Baccarat Card game in which heavy gambling is possible Baccarat is much played in France, at Monte Carlo and elsewhere, but it is illegal in Great Britain There are various forms, and some of the baccarat clube have their arms when the baccarat clubs have their own rules.

The game is between a banker, who may be an official of the club or casino, or one of the players, and the players are called punters. The banker, using several packs of cards shuffled together, deals two cards to each player and two to himself. The value of the cards is 1 for the card of the two and so the cards is 1 for the ace, 2 for the two, and so on to the nine. The ten and court cards count nothing The banker receives money, accord-

ing to the stakes arranged, from those whose cards total less than do his own, and also from those whose cards total over 9 He pays to those who are nearer 9 than he is himself In the case of a tie, the stake remains for the next coup or round The banker starts the game by staking a certain sum of money, if this is lost the players are said to have broken the bank

Bacchus Roman god of wine and Bacchus is identical with the Greek god Dionysus Legends tell how he travelled, teaching people to grow the vine, and how he married Ariadnc, whom he met in Naxos His exile and other evils were

due to the hatred of Juno
The name of Bacchus is usually associated with drunkenness and licentiousness Enrolled among the gods, his worship was soon widely prevalent, and many festivals were held in his honour A feature of these was the presence of women attendants, called Bacchae, or Bacchanes In Rome the festivals, called Bacchanelia, grew more and more objectionable, until, in 186 BC, they were forbidden. The Dionysia, as the celebrations were called in Greece, were marked by much drinking of wine and were equily licentiques. and were equally licentious I identified with the Egyptian Osiris Bacchus is

Bacchylides Greek poet Born at Ceos, for long he was considered one of the great lyric poets of Greece, although few of his poems were known In 1896, however, twenty poems by him press 1896, however, twenty poems by him were discovered in Egypt. The manuscripts are in the British Museum He died about 450 B C

Bach Johann Sebastian. German musician He was born at Eisenach, Saxony, March 21, 1685 Taught by his father, Johann A Bach, he was in turn organist at Arnstatt, Mühlhausen, Welmar and Köthen At Leipzig, where he was from 1723 until his death, July 28, 1750 he was director of music at the two chief 1750, he was director of music at the two chief churches and at the university

Bach produced a great quantity of work and had an enormous influence on the development of music. His most famous pieces, perhaps, were written for the organ, but he also wrote for the violin and the clavier. The improvements he introduced into the playing of the organ, but he will introduce in the playing or the organization of the orga of the latter instrument had much influence on of the latter instrument had much influence on the playing of the modern piano. His com-positions were issued in 52 volumes by the Bach Society at Leipzig, 1850-1900. They include the magnificent Mass in B Minor, the Passions of S Matthew and S John over 200 cantatas, sacred and secular, and a great number of other pieces. In London there is a Bach Choir, founded in 1876, which exists to give performances of his works. Three of Bach's sons were musicians. The eldest, Wilhelm was organist at Dresden and

eldest, Wilhelm was organist at Dresden and Halle Carl Philip was a prolific composer Halle Carl Philip was a prolific composer and was employed by Frederick the Great Johann was at one time a musician at the court of George II in London

Bacillus Minute organism in shape like is called bacteriology (qv) The word means "a small rod"

Back Sir George English explorer Ho was born in Stockport, Nov 6, 1796, became a sailor and went with Sir John Franklin on a voyage of discovery In 1833, when in command of an expedition, he discovered the river in Canada which is sometimes called the Black River, although better known as the Great Fish River He became an admiral and a knight and died June 23, 1878

Backache A common complaint in human beings It is often present in persons who are anaemic or de bilitated and is a frequent symptom in hysteria and neurasthenia A variety of causes may give rise to it. It may be an early symptom of any infectious fever, or due to kidney disease, certain liver troubles, rheumatism or neuralgia In women it is most commonly due to slight displacements of the womb In cases of frequent backache, which may be caused by or frequent decision, which may be caused by rheumatism, adopt a vegetarian diet and drink large quantities of water between meals, avoiding coffee, strong tea, and alcohol Massage is beneficial, and undre muscular fatigue should be avoided See Lumbago

Backbarrow Village of Lancashire It stands on the little River Leven, not far from Lake Windermere Here is a waterfall, which is used to generate electricity for near by works and for supplying power to Barrow in Furness

Backgammon Indoor game Back gammon is played by two persons on a special board, which is divided into two parts by a raised bar This gives each player a home or inner table on the left and an outer table on the right. Each player has 15 men one playing with the white ones, and the other with the black, not unlike draughts. Two dice are also revised. The board is merked with polarity quired The board is marked with points for scoring, six at each end

The object of each player is to move his men from their outer table through the two men from their outer table through the two parts of the enemy's territory to their home table, and then to remove them from the board. He throws the two dice together and according to their fall, moves his pieces. He can either move two of these at once or move one piece twice The name refers to the fact that the pieces go back A variant of the game is known as Russian backgammon A form of backgammon called chouette has that the pieces go back

been introduced. At this more than two

persons can play

Backhaus Wilhelm German planist. Born at Leipzig, March 26, 1884, he first appeared in public in 1900 and ass4, ne aret appeared in public in 1900 and his genius won immediate recognition. In 1905 he was made professor of plano playing at the Royal College of Music, Manchester, but in the same year he won the Rubinstein prize in Paris and resigned his post. He was then free to undertake tours throughout Europe and America, and he played in most of the great centres to enthusiastic audiences.

Backsheesh in India and other parts of the East, a present of money given in return for a favour of one kind or other, often a trading privilege Put plainly, it means a bribe The word is spelt

Bacon Popular article of food It is the Bacon flesh of the pig after it has been flesh of the pig after it has been It is the cured, curing being a process of pickling and drying and sometimes smoking. The people curea, curing using a process of pickling and drying and sometimes smoking. The people of Great Britain cat of bacon and ham together about 600 000 tons a year. Bacon has a high food value. It is sold according to the brand Wiltshire, for instance but the names refer to day rather to the method of curing than to the place of production.

Great Britain imports much bacon from cland, Canada, Denmark and the United Ircland, States, but a good deal is produced at home

Greater attention is now paid to the required breed of pig, and bacon factories, on the Danish model, have been established usually co operative undertakings These are Bacon is still cured in the farm kitchen, but only on a small scale In the United States and Den mark, all bacon must be passed by state officials before it can be sold. Bacon was not included in the articles on which an import duty was placed when Great Britain's fiscal policy was changed in 1931-32, but in April, 1932, a commission was set up to reorganise the marketing of bacon and other pig products

Francis English statesman and Bacon Dacon thinker Born in London, Jan 22, 1561, he was the son of Sir Nicholas Bacon,

a successful lawyer Sir William Cecil, the great Lord Burghley, was Bacon's uncle Having studied at Trinity College, Cambridge, Bacon went to Paris with the English ambassador, but in three years he was again in London studying law In 1582 he became a barrister of Gray's Inn, and in 1584, M.P for Melcombe Regis For twenty years or so he lived a busy life and was formed to the studying the lived a busy life, and won fame as orntor, writer and lawyer In 1607, being then Sir Francis, he became Solicitor General, in 1613 Attorney General, and in 1616 Lord Chan-cellor and a peer, taking the title of Viscount S Albans As Chancellor, Bacon was charged with taking bribes The result was prison, fine and the loss of office, but pardon came quickly, and the loss and discomfort were slight. He died April 9, 1626

Bacon's writings are among the greatest contributions to human thought since the time of the Greeks, notably his Essays His Novum Organum marks him as the great forerunner of Other books are the New Allantis, in which he anticipated the use of the telephone, The Advancement of Learning, and a Life of Henry VII

It has been argued, with some measure of success, that he was also the author of Shake speare's plays

Bacon Roger English scientist. He was born at Hohester in Somer set, in 1214 He studied at Oxford and in Paris, and became a Franciscan friar thus arose the name Friar Bacon At Oxford he was engaged in what to day is known as scientific research. He invented the magnify ing glass, and something very like gunpowder, and started a belief in the possibility of inventions that have since come about, such as the steamship and the telescope men who were in advance of their age, he was not left in peace by the authorities. He was a prisoner for eight years and again, for ten years. On both occasions his books were condemned. The greatest of these is his Opus. as the steamship and the telescope Like other friar was again a free man at Oxford when he died in 1294

Bacteriology The study of bacteria branch of biology These bacteria or bacilli, branch of biology These bacteria or bacilli, are minute vegetable organisms that pervade all forms of life, and play an important part in the causation of disease Not all of them, however, are harmful

The science is quite modern, although in the 17th century the connection of microbes and disease was pointed out by more than one observer Pasteur did as much as anyone to establish its principles, and another great name was Koch Its great progress has been made possible by two inventions powerful lenses which enable the bacteria to be examined, and aniline dyes which make their different

parta visible

Bacteriologists cultivate bacteria and study the results of inoculating animals with them Medical science in its campaigns against various diseases owes much to bacteriology, which is also of great value in enabling experts to test the purity or otherwise of food supplies Bacteria are utilised in many trade processes

Baciria Former country of Asia It extended from the Hindu Kush to the Oxus It is now part of Afghanistan, being almost identical with the district of Balk Its capital was Bactra, and it was famous for its camels It was conquered by Cyrus, and then by Alexander the Great, who settled Greeks herein About 250 B c the kingdom of Bactria was set up, but this only lasted for about 100 years

Bacup Town of Lancashire Bacup is on the Irwell, 22 m from Man chester, on the L.M.S. Rly Its chief industry is the spinning and weaving of cotton, but there are several others, among them paper making and dveing, for which the river water is specially Bacup has been a borough since 1882

sultable Bacup has Pop (1931) 20 606

Badajoz City of Spain Only four miles from the frontier of Portugal, it was long an important fortress During the Peninsular War the French besieged it more than once, and at last got hold of it it was then the turn of the British Wellington's free the turn of the British as one of the great feats of the British army The siege began on March 17, and on April 6 the city was stormed. The attack is described by Napler in his History of the Peninsular War (Vol. IV) The city of the Pennsular War (Vol IV) The city stands on the Guadiana, 315 m from Madrid It has a cathedral and an old castle

Baddow Two villages in Essex called Great Baddow is 2 m from Chelmsford and Little Bad dow about 4 m, the latter being on the Chelmer Pop 2582

Baden Republic of Germany and a state of the German Republic or Reich. being the fourth largest state therein Its cize is 5820 sq m, and its population over 2,312,500 The Rhine divides it from Alsace, and on the south is Switzerland. Karlsruhe is the capital, but Mannheim has more people Another place herein is Heidelberg with its university It is a mountainous and beautiful district, as it includes the Black Forest and one side of the Lake of Constance

Baden began as several little German states which were united in 1771 under one ruler, the margrave. In 1871 it became part of the new German Empire In 1919 a republic was set up, and a new constitution framed up, and a new constitution trained a cabinet sists of a single elected house and a cabinet under a president responsible to it. Propor-This contional representation is in force and the people have the right of using the initiative and the

referendum.

Baden Name of two European towns one is 17 m from Vienna, and the other in Switzerland, 13 m from Zürich Both have mineral springs Near the Austrian Baden is Meierling, the house where, in 1889, the Crown Prince Rudolph committed suicide In 1714 at the Switze Baden there was girmed In 1714 at the Swiss Baden there was signed one of the treaties that ended the War of the Spanish Succession From 1426 to 1712 it was the capital of the Swiss Confederation

Baden-Baden Watering place of Germany. Sometimes called Baden, this place is in the Black Forest, 23 m from Karlsruhe Many visit it for the waters, which were known in Roman times For some time Baden was the chief town of the state of Baden Before 1871, when it was included in the German Empire, it was one of Europe's greatest gaming centres Pop 22,000

Pop 22,000

Badenoch Name of a district in the Scotland It is about 40 m long, and may be described as the Valley of the Spey A mountainous area, it is mainly deer forest, and contains Loch Ericht King Robert II had a son called the Wolf of Badenoch who ruled this district Later it became the property of the Margness of Huntle who hears the title of the Marquess of Huntly, who bears the title of Lord of Badenoch

Baden-Powell Lord Robert Stephen-Powell, the founder of the Bov Scout move-ment, was born Fob 22, 1857, entered the army, and in 1896-7 was in the force that defeated the Matabele About this time he obtained his knowledge of scouting, but it was not until 1899 that he became a popular hero as the defender of Mafeking Baden-Powell was afterwards head of the constabulary in South Africa, and Inspector-General of cavalry in England. In 1908 he founded the Boy Scout movement, and in 1909 he was knighted He has written several books, mostly about his wars and adventures and on scouting He was made a baron in 1929 See Boy Scouts

Something worn on a person to show that he or she belongs to a Badge certain society or organisation, or is of a certain rank The various regiments of the British Army have each their distinctive badge, other badges show the rank of the wearer. The navy and air force have also their badges, as have various associations of civilians tween badges and coats-of-arms there is a distinct difference Any society can adopt a badge, but to take a coat-of-arms certain formalities are necessary In 1930 the king granted a new badge to baronets. See Arms

Badger Animal found in Great Britain underground and feeds on insects, roots, and, at times, mice and young birds Its average length is about 3 ft, and it is grey in colour, save that its head is striped with black. It is found in Great Britain, in various parts of Europe and in China, where it serves for human food In Great Britain its only pracfidning food in Great Britain its only plactical use to-day is to provide hair for brushes Formerly it provided both food and sport, and baiting the badger with dogs was a popular amusement until forbidden in 1580 An old English name for it is the brock

Bad Lands Distinctive name for a considerable area on the E side of the Rocky Mountains in the United States It is so called, because, on account of its dryness, practically nothing will grow The states concerned are North Dakota, South Dakota, Nebraska, Wyoming and Montana The Bad Lands contain very many fossils of mammals.

Badminton Seat of the Duke of Beau-shire, 14 m from Bristol and is a large house, fairly modern, in a park of 9 m circumference As the Dukes of Beaufort have been noted sportsmen, the name of their chief residence

has been given to a game, a club, a drink, and a library The club is a London sporting club in Plecadilly, founded in 1876 The library in Piccadilly, founded in 1876 consists of books on sporting subjects minton has a station on the G W Rly

Badminton Outdoor or indoor game
It came from India into
Great Britain about 1873 It is not unlike
lawn tennis, but can be played indoors The
implements are a shuttlecock and racquets
lighter and smaller than those used for lawn
tennis It is also played in the open, and a
special ball is often used in such cases, as the
abuttlessel to take the reside wind.

shuttlecock is too light to resist wind

As in lawn tennis two or four persons take part in a game The court should be 44 ft long and 20 ft. wide, and be divided into four long and 20 ft. wide, and be divided into four parts. The net should be about 5 ft high The server must send the shuttlecock into the court diagonally opposite to him, and the player there must return it or lose the point No faults are allowed in serving, which must be underhand. Points are scored by aces, and 15 aces make a game. In Great Britain the game is controlled by the Badminton Association and since 1839 and 1900 there have been matches for the annual obammionship, both in matches for the annual championship, both in singles and doubles International matches are also played between England, Scotland, Ireland and other countries

Baedeker Karl German publisher Born son of a bookseller In 1827 he started in business in Coblenz, and in 1839 with John business in Coblenz, and in 1839 with John Murray, the London publisher, he issued a guide book to Holland, Belgium and the Rhineland Others followed, and, before the World War, these guides were the most popular of their kind They were published in English and French, as well as in German Baedeker died Oot 18, 1859 His business is carried on by his descendants at Leipzig. carried on by his descendants at Leipzig

Bael Plant akin to the orange spelt also Bhel It grows in India, and its truit is used as a cure for dysentery. A per fruit is used as a cure for dysentery A per fume and a dye are obtained from the rind, and the seeds are used to make cement. It is usually dried before it is ripe, and in dried alloes is imported into England.

Baffin William English explorer He was a Londoner by birth In 1612 he went as pilot with an expedition to discover the N E passage, and in 1615 he made a like voyage It was on the latter occasion that he explored Baffin Bay At other times he was engaged in whaling He was killed in a fight

explored Battin Bay He was killed in a fight at Ormuz Jan 23, 1622

Baffin Bay Inland sea of North America Baffin Bay Enland sea of North America between Canada and Green Davis Strait from the land It is entered by Davis Strait from the Atlantic Other openings lead into the Arctic Atlantic Other openings lead into the Arctic Ocean It is about \$25 m long and contains whales and seals It is navigable for about four months in the year West of the bay is Baffin Island This is \$37,000 sq m in area, being thus the largest island in the world after Australia and Greenland. Its only inhabitants are a few Eslimos on the east coast.

Bagamoyo Seaport of Tanganyika opposite Zanzibar and at one time was a noted caravan station Before the World War it was in German East Africa, but in 1916 the British took possession of it Pop 12,000

table is 10 ft. long and 3 ft wide, covered with green cloth At the top end are nine holes or cups, numbered one to nine, and the players, using a one, try to get the balls into these holes. There are four white and four red balls as well as a black ball which is spotted when play begins If this is sent into a hole it counts double The aim of each player is to score as many points as possible with the nine balls, many points as possible with the nine balls, In another form of the game an arch with nine holes in it is placed across the board and the balls are sent into them. There are bagatelle boards with pockets, but the game in this case, as cannons are essential should rather be described as billiards on a small scale

Bagdad sides of the Tigris, 300 m from the Persian Gulf, it is the chief town of Iraq and an important trading centre There is a considerable trade along the river in the products of a rich land and the presence of the British administration introduced new interests and increased activity. Its communications are good. In addition to the caravan routes goods go by water up and down the Tigris, and there are railway, motor car and air services.

car and air sorvices

Bagdad is a typical Oriental city Founded
in 763 by one of the caliphs, it became, under
Haroun al Raschid, one of the world's splendid
cities, the capital of a great empire famous for
its buildings and as a seat of learning This
lasted until 1258, when the Mongols ravished it.
The city became Turkish in 1638, and remained
so until 1917 when the sultan lost it.

Bagdad figured in the World War The
British reverses in Mesopotamia were retrieved
by Sir F 8 Mande, who, having re talon Kut

by Sir F S Maude, who, having re taken Kut in February, 1917, chased the Turks up the Tigris On March 11 the city was entered by the British Pop 250 000

Bagdad Railway Railway of Asia planned to unite Constantinople with the Persian Gulf, Bagdad being an important the constantinople with the constantin place on the route As far as Konelh there

place on the route. As far as Koneih there was already a line in existence, the Anatolian Railway, the Bagdad line was intended to continue this from Koneih in Asia Minor to the Gulf. Its total length was 1500 m. In 1809 the Turkish Government granted the necessary permission. The idea was that Great Britain, Germany and France should be jointly responsible for it, but in 1903 Great Britain withdrew, and Germany, with France as a junior partner, went vigorously to work. The alliance of Germany and Turkey during the World War made further progress possible, and World War made further progress possible, and during the struggle the main line was continued Of the branch lines one went to Aleppo and another to Alexandretta.

When the armistice came and the line was handed over to the Allies, 1200 miles of it were working Soon the section from Bagdad to Basra was working and the only unfinished section was the one from Nisibiu to Samarra.

Bagehot Walter Lnglish writer Born at Langport in Somerset, Feb 3, 1826, the son of a banker there, Walter was made a partner in the bank, but much of his time was occupied in writing. He wrote a good opposite Zanzibar and at one time was a line was occupied in writing. He wrote a good it was in German East Africa, but in 1916 the British took possession of it. Pop 12,000

Bagatelle Indoor game I is a form of billiards, although it probably developed from shovel board. The died at Langport, March 24, 1877 Bagirmi Name of a country in Africa and of the people who live therein A French possession, it lies south of Lake Chad, and has a population of about 150,000 The people are of negroid race, ruled by a sultan Massenia is the capital

Bagnalstown Market town of the Irish Free State, also called Bagenalstown It is in Co Carlow, 10 m from Carlow, and 62 m from Dublin, on the Gt S Rlys The town is named after the Bagenals, one of whom, called King Bagenal, lived at Dunlecking about the end of the 18th century. He was a remarkable flower the 18th century He was a remarkable figure, very fond of drinking and of company, he dined with loaded pistols in front of him, and when 79 years old fought a duel seated in his chair Pop 1800

Bagnigge Wells Old London pleatavern, Ye Olde Bagnigge Wells, in King's Cross Road, marks the site It was opened in 1757 because a medicinal spring was found here Later it became one of London's pleasure gardens, and remained so until about 1841.

Bagpipe Musical instrument. It is chiefly associated with the Scottish Highlands, but there are also Irish and Northumbrian happipes It consists of a series of pipes attached to a windbag. On one, called of pipes acceded to a windows. On one, cance the chanter, the melody is played The others are the drones that produce the accompaniment. The chanter has a double reed, the drones a single one each In the Scottish pipes the wind is supplied by the player, in the Irish bellows are used. The Irish pipes have the greater compass

The bagpipe was known in Scotland in the 12th century, or earlier, and the kings and chieftains had their pipers, often an hereditary calling Schools for pipers were kept by some of these families Shakespeare mentions a Lincolnshire bagpipe and an instrument like the bagpipe was used in very early times in Europe There is a great deal of music for the bagpipe in existence, especially in Scotland

Bagshot District in the NW of Surrey Bagshot District in the NW of Surrey Galled in full Bagshot Heath, at one time it was a royal forest, and it is still Crown property. Bagshot Park, the residence of the Duke of Connaught, is on the site of a house used by James I. when hunting The village of Bagshot is 27 m from London by the Southern Rly Bagshot Beds are a series of sands overlying he London clay in the South of England Examples can be seen at Studland in Dorset or at Alum Bay in the Isle of Wight.

Bagster Samuel English publisher A in 1772 Having started in business in London, he made a name for himself by publishing cheap Bibles. These were chiefly polyglot Bibles with notes, and so he was able to sell them without encroaching upon the privileges of the universities, the only publishers of the Bible proper He died March 28, 1851

Bahadur Title of honour In India means "brave" as a title of respect when speaking to officers Lord Roberts was to speaking to officers them Bobs Bahadur

Bahamas Group of islands in the West Indies, called by the Spaniards
Los Cayos They belong to Great Britain, and stretch for about 650 m. almost from Covers about 13,000 sq m. Around it are the

Florida to Haiti They number nearly 700, but most of them are little more than rocks Great Abaco, about 1600 sq. m in extent, is Great Abaco, about 1600 sq. m in extent, is much the largest, others are Grand Bahama, New Providence, Eleuthera, San Salvador, Acklin, Cat and Long Island They cover about 4400 sq m, and have a population of about 62,000 Nassau, on New Providence, is the chief town The people are chiefly negroes, the descendants of slaves Fruit is grown on the islands and fishing is another industry Sponges are cultivated, as is sisal. There is a Sponges are cultivated, as is sisal There is a governor, and associated with him are two councils, executive and legislative, and an

elected parliament

The Bahamas were discovered by Columbus, The Bahamas were discovered by Columbus, in 1492, but were not settled until 1629, when some Englishmen made their homes here. It was not until 1783, however, that Spain finally ceased to claim them. Two events in the history of the United States have brought great prosperity to the Bahamas. One was the Civil War, when they were used by blockade runners, and the other the introduction of prohibition. Their nearness to the American coast makes the Bahamas a favourite resert. coast males the Bahamas a favourite resort for those who wish to drink what they like.

Bahia Seaport of Brazil Its full name is Sao Salvador de Bahia, or the Bay of San Salvador It is 800 miles from Rio de Janeiro, and has a large trade with Europe. It Janeiro, and has a large trade with Europe. 10 has a good harbour, is a railway terminus and has regular services to Liverpool and other ports Bahia was founded by the Portuguese in 1510, and was the capital of Brazil before 1763. It is now the capital of a state of the same name. Pop. 330,000

Bahia Blanca Seaport of Argentina It is 425 m from Buenos Aires and stands on the River Naposta, about 6 m from its mouth, where a good harbour has been constructed Several railway lines converge on the port, through which passes a good deal of grain In addition to Bahia itself on the river, there are three harbours on the bay, all being part of the port. Incenters White has elevators for grain, and Ingeniero White has elevators for grain, and good accommodation for ships, and the same can be said of Puerto Galvan, both being procan be said of Puerto Gaivan, both being provided by the railway companies Puerto Belgrano is a naval station, but has also facilities for cargo The name means "White Bay" Pop (1931), 102,430.

Bahr Arabic word, meaning river or lake The various parts of the Nile are, Bahr-el-Abiad, the White Nile, Bahr-el-Azrek, the Blue Nile, and Bahr-el-Aswad, the Black Nile Bahr-el-Jehel is the Upper Nile

Bahrain Group of islands in the Persian Gulf and under the protection of Great Britain Bahrain, or Aval, is the largest, others are Maharaq and Sitra Manama is the capital, the only other town is Maharaq Pearl fishing is the main industry, and fruit is grown

Bahrain has good roads, a wireless station, Bahrain has good roads, a wireless station, and a regular steamer service with India  $\Delta$  romarkable feature is a cemetery covering many miles and dotted with enormous burial mounds, some being 50 ft high This island covers about 200 sq m, the others are much smaller The islands are ruled by a native chief and Great Britain has a political resident at his court. Pap. 120 000

Baikal Mountains, and in it are soveral islands There are many fish in the lake, one of them, the golomynka, being found nowhere else

Term used in English law In Great Bail Britain a person accused of an offence may either be kept in prison until his trial comes on, or be let out on ball If the latter, he and one or two other persons promise that, if he does not appear when requested, they will forfeit a certain sum of money, which is fixed by the magistrates Ball is allowed in England only for minor offences Much is left to the

discretion of the judge

Baildon Urban district in the West
from Bradford and the chief industry is the
manufacture of chemicals Pop (1931) 7794

Part of a medieval castle Dailey balley was at first a wall, this being the Latin meaning of the word. It now means the court that lies between the outer wall and the keep In some castles there were both an outer and an inner bailey There is a good example in the castle at Durham

Bailey Sir Abe was S African mine owner Bailey He was born in Cape Colony Nov 16, 1864 He was educated in England, but soon returned to Africa, and was one of those who were imprisoned in 1895 for agi tating against the dominance of the Boers He fought in the war of 1899 1902, and was a politician, but his main energies were devoted to business especially in Rhodesia. His wife, Lady Bailey, is one of the first and most daring of airwomen

Bailte Official in Scotland He corres ponds somewhat to the English alderman The burgh councils have ballies among their members, these being elected by the councillors as the aldermen are in England

The bailles are also magistrates

Bailiff English official. Officials of the county courts in England are called bailiffs, as are the men who, under the sheriff's orders, distrain for rent and debts of other kinds, serve writs, collect fines, and do similar work

Another kind of bailiff is a man employed by a landowner to look after an estate or farm in the Channel Islands the bailiff is an im portant person, as he is the president both of the law courts and of the parliament In former times certain English cities, West minster for instance, had a high bailing. minster for instance, had a high bailiff There was also a bailiff of Dover Castle and of other strongholds

Bailleul Town of France, 46 m from The Germans took it in April, 1918, but the British won it back in the following August Much damage was done to it during the fighting but this has now been

Pop 13,070 repaired

Marchmont, she was born Dec 25 1665 She helped her father, a Covenanter, to escape from his enemies, and later went with him to Holland After 1688 she returned to Scotland Lady Grizel Scottish heroine and and in 1692 married George Baillie of Jervis wood Her poems are still remembered in Scotland She died Dec. 6, 1746

Francis English astronomer Dally name is perpetuated because, during an eclipse of the sun on May 15, 1836, he discovered what are now known as Baily s Beads These are parts of the sun's edge left visible as the ragged rim of the moon passes

over it, as then lit they look like beads, Baily was born at Newburr, April 28, 1774, and became a stockbroker When he had made a competence for himself, he began to study astronomy, and his observations proved most valuable He died Aug 30, 1844

Baird Sir David Scottish soldier Born at Newbyth, Dec. 6, 1757, he entered the army in 1779 and led the force that stormed Seringapatam Later he commanded a force in Egypt, in Capetown and one in Copenhagen. He was in Spain with Wellington, and was wounded at Corunna, losing his left arm Made a baronet in 1810, he died Aug 18. arm 1829

Baireuth Bayreuth, and a famous Bayreuth to the Main, 60 m from musical centre Nuremberg Until 1791 it was the chief town of a tiny state, ruled by a branch of the Hohenzollern family Its reputation is really due to Richard Wagner who lived here Louis II of Bavaria, a great lover of music, made it possible for a theatre to be built according to Wagner's ideas Called the Wagner Theatre, it was opened in 1876, and in it, from time to time, festivals are held in honour of Wagner Pop 35 000

Baize Coarse weedlen or cotton cloth, with a long nap on both sides It is usually dyed red or green, and is used for coverings of various kinds, also for curtains and aprons It is now made in and around Halifax, but at one time it was made at Colchester and the neighbourhood French and Flemish settlers introduced it there about 1560, and the word bay an older form, is still found at Colchester and Dedham

Bakehouse Place used for baking bread, cakes and postries Bakehouses are subject to the Factory Acts, and must be kept clean and ventilated and proper provision made for those who work in them The Factory Act of 1901 provides for a pure water supply No underground place can be used for a bakehouse unless the district council or other authority approves of it. No place on the same level as a bakehouse and part of the same building may be used as a sleeping room unless the two are completely separated.

Commercial material. It owes Bakelite commercial motorial its name to H Backeland a chemist. Consisting of phenols and formaldehyde, it is made hard by the application of heat. It is not unlike celluloid, save that it is harder and does not catch fire. It is used for making buttons umbrella handles and other articles where its peculiar qualities are desirable A liquid form is used to harden certain materials fibre and paper, for instance Brass articles are protected by a coating of bakelite varnish, and paper im pregnated with it is suitable where electric insulation is necessary

Baker Maker of bread The earliest professional bakers were a few men employed by rulers and noblemen elsewhere the housewives were the bakers. The advance of civilisation and the increase of population, however, called into existence a class of bakers To-day the baker makes extensive use of machinery and produces bread on a large scale

One of the London livery companies is the Bakers A company of white bakers existed about 1300 in London later this was united with the brown bakers to form a livery com-pany The hall is in Harp Lanc, London, E C.

In London a school for bakers and confectioners is carried on at the Borough Polytechnic, Borough Road, SE They have a trade organisation. The National Association of Master Bakers, Confectioners and Caterers, and their own trade papers, among them The Baker and Confectioner

Baker and Conjectioner

Baker Sir Samuel White. English ex1821, in 1861 he began his African journeys,
explored the source of the Nile and discovered
and named the Albert Nyanza Later the
Khedive of Egypt successfully employed him
to put down the slave trade in his territories
Baker, who was made a knight and a pasha,
was a famous hunter of big game and wrote
several books dealing with his travels and
adventures He died in Devonshire, Dec 30,
1893 1893

Bakewell Market town and urban district of Derbyshire It is 26 m from Derby, on the Wye, and has a station on the LMS Rly The town is surrounded by magnificent scenery and is a centre for the Peak district Chatsworth, Haddon, and other places of interest are not far away All Saints' is a beautiful old church, and there is a 17th century grammar school There are some old almshouses and a very old cross, probably 8th century Pop (1931) 3012

Robert English was a farmer in Leicestershire, and was continually trying experiments in breeding and growing Some failed, but he succeeded in rearing heavier sheep and cattle and in growing improved foodstuffs. We had a greated breather. Bakewell improved foodstuffs He had a special breed of black horses and started a club for breeding purposes At his farm he made a collection of skeletons and carcases for purposes of com-parison. He died Oct 1, 1795

Baking Powder Cooking ingredof tartaric acid and bicarbonate of soda, mixed with ground rice and flour When damped the acid acts on the bicarbonate and gives off carbonic acid gas It is used, like yeast, for

Bakst Leon Nicolaievitch Russian artist
Born in 1866 he studied in Petrograd, but his chief work has been done in
Paris, where he settled in 1906 There he made a great reputation by his designs for stage costumes and decorations, especially, perhaps, for the Russian ballet

Baku Capital of the Soviet Republic of Azerbeijan It is a port on the Caspian Sea and a great oil centre Railways connect it with the interior of Russia and Batum on the Black Sea, 560 m away, and steamships with other ports on the Caspian Before the war the output of oil from the wells and refineries in and around Baku was enor mous, but during the struggle much damage was done

Once in possession the Soviet Government lost little time in reviving the industry A great output was again secured, but nothing was done to compensate the dispossessed owners of the oil fields The town is a station on the air route from Moscow, and its trade with Persia is still very considerable. Its population is estimated at about 452,000.

In 1918 Great Britain sent an expedition to Baku to check if possible the advance of the

estimated at another forms. In 1918 Great Britain sent an expedition to In 1918 Great Britain sent an expedition to Baku to check, it possible, the advance of the Baku to check, it possible, the advance of the Turks in that area Major-General R C Dunster leading his small "Dunster ports over exports or vice versa If a country imports more than it exports, the balance of E

1918, but it was not until June that he reached Enzali on the Caspian The next event was Enzali on the Caspian The next event was the selzure of Baku by some Armenians and Persians, who asked Dunsterville to join them The Turks, however, continued their advance, the Armenians and Persians proved unreliable, and in Sept the British withdrew, losing heavily in the necessary fighting. In Nov, after the Armistice, Baku was again occupied by the British, but they left it in Aug, 1919, since when the Bolshevists have been in undisputed possession

Bakunin Mikhail Russian politician. Born' in 1844, the 'das an aristocrat and an army officer, but he soon went aristocrat and an army officer, but he soon went abroad, and became a revolutionary. He was sent to Siberia, but escaped, and lived in the United States and then in London. He' died at Berne, June 13, 1876. He taught a dootrine of anarchy, really a kind of despotism, not unlike the Bolshevism of to day

Lake and town of Merionethshire, Wales The lake is 4 m long and the Dee begins its course here

The market town and urban district of Bala stands at the north end, on the GW Rly, 12 m from Corwen It has a golf course Pop (1931) 1395

Biblical character He was a Balaam Balak, King of Moab, to curse Israel On his way to do this he was stopped by an angel and reproved by his own ass, which was given the gift of speech (Numbers xxii )

Balaclava Village and harbour on the Black Sea It is 8 m from Sebastopol and in 1854, during the Crimetin War, it was used as a base by the British On October 25, 1854, the Russians made an attack here, but they were beaten back by a charge of the heavy cavalry brigade under Lord Scarlett Then followed a charge of the Village and harbour on the light brigade which lost nearly half its number of 673 in the attempt Afterwards it was realised that the order was a mistake, but the

fcat made the name of Balaclava immortal A Balaclava helmet is a woollen cap made to fit over the head and ears They were worn in the Crimea, hence the name

Balance Apparatus for weighing, often called scales They are used for weighing goods of all kinds and may be divided into arm balances, lever balances, and the older weight balances. In addition there are spring balances, that are used 'or weighing heavy loads Apart from these although the principle is the same are the delicate balances used by scientists, and the immersion balances. used by scientists, and the immersion balance is one that finds the weight of an article by dipping it in water

Balance of Power Phrase meaning the preservation, especially in Europe, of an equality of strength between countries or groups of countries. The idea that no one country shall become too powerful for the safety of the others grew up in the 16th century, and was behind the various coalitions against France formed in the 17th and 18th centuries, and the later alliances that existed in Europe' before the outbreak of the World War That struggle changed fundamentally the structure of the European States, but the idea of a balance of power among them still exists

the balance is favourable. In the case of Great Britain, and also of some other countries, invisible imports must be included, these being such things as interest on loans, shipping charges, and the like Although imports greatly exceed exports in value experts, taking the above facts into account, state that in most years the balance of trade has been favourable.

to Britain

This, however, was not so in one or two years after the War In 1926 there was a sinall adverse balance, but in the succeeding year (1927) the balance was again favourable In 1931, however, the balance was the other way—2110,000,000, and in August a serious position areas To remedy this, Great Britain abandoned the gold standard and placed heavy duties on certain classes of imported goods. duties on certain classes of imported goods A general tariff followed in 1932. The figures for 1932, 1933 and 1934 (£56,000,000, £4,000,000 and £1,000,000) show how the debit balance decreased. Details for 1934 are as follows—

Excess of Imports over Exports

£295 000 000

Pricess of Government receipts National Shipping become Overseas Investment income Short Interest and commission

£394,000,000

Balata Substance made from the gum of the bullet tree It is employed to make belting for machinery and as a substitute for gutta percha It is also used for insulating purposes and for the soles of boots and shoes Sometimes called Surinam boots and shoes Sometimes called Surinam gutta peroba, the gum is found in Dutch Guiana, in Surinam, and in British Guiana, Venezuela and elsewhere A tree about 29 in. in diameter will give out about 2 lb of balata

Balaton Largest lake in Hungary The subject of many legends and of much poetry, it is 47 m long and covers about 250 sq m It is 55 m from Budapest On the north side are hills covered with vines the south side is less picturesque Its waters are carried to the Danubo Pinttensee is another pages for the lose. name for the lake

Balboa Port of Panama It is also called Port of Ancon. At the Pacific end of the Panama Canal, it has a good harbour which can accommodate the largest vessels, and has facilities for storing great quantities of coal and oil There is a wireless station An electric railway runs from here to Panama United States officials manage the port. Pop 8000

Balboa Vasco Nunez de Spanish et Born at Keres, Spain, in 1475, when young he crossed the Atlantic At first he lived in Santo Domingo, but he went to Darlen and became governor of that country He lost his position in 1514, and his life, three years later, being beheaded. It was Balboa and not Cortez who in 1513 was the first European to see the Pacific. In Panama a silver coin, equal to the American dollar, is called the balboa

trade is against it, if the roverse is the case, times of Caesar, Cicero and Pompey A native of Cadiz, he was made a Roman citizen, and in 40 B c was chosen consul Before this he had been prosecuted for assuming the rights of a citizen, but had been triumphantly defended by Cicero

Baldachino Canopy over an altar Baldacoo is the Italian word for Bagdad, and from that city came the materials of which some of the canopies were made Others were of wood, stone or metal made Others were of wood, stone or metal They were supported by four columns. The finest example in the world is in S. Peter's at Rome. Another form of the same word is baldacchino, which describes the silk canopy that covers the host when it is carried in procession, or covers a prince of the Roman Church in like circumstances.

Balder Sun god of Norse mythology called "the beautiful" His father was Odin, his mother Frigg, and his wife Nanna Fearing for her son, Frigg per suaded all nature, except the mistletce, to swear not to harm him. The evil Loke having learned the secret, secured a dart of mistletce. Innocently, Balder's blind brother used this dart and Balder fell dead

Baldmoney English wallflower The in England call by this name are species of the gentian (q v)

Baldness Hereditary baldness is incur affected by the general state of the health, the condition may be caused by overwork, worry, malnutrition, lack of fresh air and sunlight, constipation, decayed teeth, etc The constant pressure of hard hats interfering with the blood supply of the scalp is also a predisposing

A type of baldness (Alopecia Areaia), in which sudden loss of hair in patches occurs, is due to constitutional causes. In all such types of baldness the predisposing cause should be ascertained and removed, attention paid to the general health, plenty of fresh air obtained removing the hat whenever possible—and treatment sought by ultra violet light. Scalp massage is also beneficial. (See also DAND partys) RUFF)

Baldock Urban district of Hertfordshire, on the LNE Rly, 37 m from London In 1925 a Roman cemetrry was unearthed here and some interesting finds were made Here is a Post Office radio receiving station Pop (1931) 3171

Baldric Girdle or belt worn by soldiers in the Middle Ages Made of leather it was worn either over the shoulder or round the waist, being used to hold a sword or bugle The strap round the neck which held the shield was also called the baldric

At first he lived in Santo Domingo, but he went to Darlen and became governor of that country. He lost his position in 1514, and his life, three years later, being beheaded. It was Balboa and not Cortex who in 1513 was the first European to see the Paclific. In Panama a sliver coin, equal to the American dollar, is called the balboa.

Balbriggan of the Irish Free State In Co Dublin, it is 22 m from Dublin on the Constantinople was taken, he was made its emperor. His nephew, another Baldwin, was also emperor, but he lost Constantinople in 1261, twelve years before his death of the Irish Free State In Co Dublin, it is 22 m from Dublin on the Constantinople was taken, he was made its emperor. But he lost Constantinople in 1261, twelve years before his death of the Irish Free State In Co Dublin, it is 22 m from Dublin on the Constantinople was also called the baldric Baldwin solicies. A number of Baldwins were counts of Flanders, one of them being the father in law of William the Conqueror all the father in law of William the Conqueror all the father in law of William the Conqueror all the father in law of William the Conqueror all the father in law of William the Conqueror all the father in law of William the Conqueror all the father in law of William the Conqueror all the father in law of William the Conqueror all the father in law of William

The last of the five, only a child, was poisoned by his mother in 1187

Stanley English statesman Baldwin He was born at Bewdley, Worcestershire, Aug 3, 1867 His father was Alfred Baldwin, the son of an ironfounder, who built up the great engineering business now included in Baldwins, Ltd His mother was a Macdonald, the gifted daughter of a Wesleyan minister He went to Harrow and Trinity College, Cambridge, and later entered his father's business Business and family representabilities did not hereafted by the proceeding the control of sponsibilities did not, however, prevent him from taking part in county affairs
In 1908 he became MP for the Bewdley

division and head of the family business Before the Great War began the control of the business passed, by amalgamation, to other hands, and Baldwin was free to give his whole time to In 1917 he was made a Junior Lord politics In 1917 he was made a Junior Lord of the Treasury and then Joint Financial Secretary to the Treasury In 1921 he became President of the Board of Trade and a member

of the Cabinet

These offices were in a Coalition Government, and for the destruction of the Coalition Baldwin was as much responsible as any man He believed that Conservative principles were best for the country, but that they would have no chance until their supporters were unfettered by an alliance with those who held other views The result was that in October, 1922, Bonar Law became Premier and Baldwin Chancellor of the Exchequer As Chancellor he went to Washington and arranged for a settlement of Britain's debt to the United States

In May, 1923, Bonar Law resigned, and Baldwin became Prime Minister In December, believing that tariff reform was essential if unemployment was to be reduced, he decided to dissolve Parliament The result of the election was unfavourable to his views, and

in January, 1924, he resigned
In October, 1924, another election took
place This time the Unionists secured a large majority, and again Baldwin became Prime Minister In 1927 he went on a short visit to Canada, the first Prime Minister to do so

In 1929, after the general election had proved unfavourable to his party, he resigned office and was leader of the opposition until 1931 In Aug, 1931, he helped to form a national In Aug, 1931, he helped to form a national government, serving under Mr Ramsay Mac-Donald, and himself Lord President of the Council and deputy Prime Minister When Mr MacDonald for health reasons resigned the premiership in June, 1935, Baldwin became leader of the national government, continuing in office after Nov, 1935, when he was given substantial support at the General Election On England and Our Inheritance, are public.

On England and Our Inheritance are published volumes of his non-political speeches His many honours include the Chancellorship

of the University of Cambridge

Mr Baldwin married Miss Ridsdale, and his family consists of two sons and four daughters The elder son, Oliver, has pronounced social istic opinions From 1929 to 1931 he was socialist M.P for Dudley He has written books dealing with his travels and adventures, in 1932 he published The Questing Beast, and in 1933, Unborn Son

Bale Heavy package covered with canvas and usually bound round with hoops The bales are usually put in a press

and one of West African 400 lb The bale of wood is not quite such a fixed quantity. It averages about 320 lb Jute and coffee are and one of West African 400 lb also packed in bales

Balearic Islands Group of four is-islets in the Mediterranean They cover islets in the Mediterranean They cover 1935 sq m, and form one of the provinces of Spain, which is 134 m away The inhabitants earn their living by growing fruit and wheat, fishing and making wine Salt and marble are other exports The four large islands are Majorca, Minorca, lyiza and Formentera Palms is the capital Port Majorca Majorca, Minorca, lviza and Formentera Palma is the capital, Port Mahon is another seaport, Iviza has a magnificent harbour Pop 360,000 In Roman times the islands were famous for their slingers, who were hired by both the Romans and the Carthaginlans For 100 years after 1232 the islands formed the little kingdom of Mallorca, but later became part of Aragon and then of Spain

Balfe Michael William Irish musician. He was born in Dublin, May 15, 1808 He studied music in various centres and became famous owing to his fine baritone voice Later he lived in London, and wrote a number of light operas, such as "Th Bohemian Girl" and "The Puritan's Daughter Some of his songs for example, "Killarney" and "Come into the Garden, Maud," are still popular He died Oct 20, 1870 are still

Balfour Earl of British statesman and philosopher Arthur James Balfour was born at Whittingehame, Haddingtonshire, July 25, 1848, the cldest son of James Maitland Balfour, his mother being a daughter of the Marquess of Salisbury His school was Eton and afterwards he went to Trinity College, Cambridge

In 1874 Ballour became Conservative M P. for Hertford, and in 1878 Private Secretary to his uncle, Lord Salisbury He was associated with the Fourth Party In 1885 he became with the Fourth Party for East Manchester and President of the Local Government Board A little later he was made Secretary for Scotland, and in 1887 became Chief Secretary for Ireland. His success in that difficult, even dangerous post her record late. post, has passed into English political history. In 1891 Balfour became leader of the Unionist Party in the House of Commons In 1895 he became First Lord of the Treasury, and again head of the Government in the Commons, and in 1902 he succeeded Lord Salisbury as Prime Minister A difficult period, the years 1902-5 were perhaps the least successful part of Balfour's career His party was divided on tariff reform, the result being the election of January, 1906 Just before this Balfour had resigned his post as Prime Minister, but he continued to act as the head of his party until 1911 Then 63 years of age, he resigned and his political career was regarded as closed

The formation of a Coalition in 1915, however, proved that this idea was wrong Balfour became First Lord of the Admiralty at a critical time, May, 1915, and Foreign Secretary in Dec, 1916 It was at this time that he paid his moreorable visit to America belging paid his memorable visit to America, helping thus to bring the United States into the war In 1919 he became Lord President of the Council, and in 1922 he was made an earl. He remained Lord President under Mr Bonar Law and Mr Baldwin, and returned to the same position in 1925 in Mr Baldwin's second ministry. He left office with the other members to reduce their size In a sense a bale is a measure of weight. A bale of American cotton weighs 500 lb, one of Egyptian weighs 700 lb,

Lord Balfour's best known books are The Foundations of Belief and The Defence of Philosophic Doubt His honours are almost numberless, among them President of the numberless, British Academy, chancellor of the universities of Cambridge and Ldinburgh, Knight of the Garter, F.R.S., and the Order of Merit

Two of Balfour's younger brothers were men Two of Balfour's younger brothers were men of note Ger.ld William Balfour, who became the 2nd earl in 1930, was a brilliant classical scholar at Cambridge From 1885 to 1906 he was an MP, and from 1895 to 1906 he was in turn Chief Secretary for Ireland, President of the Board of Trade, and President of the Local Government Board Francis Maitland Local Government Board Francis Maitland Balfour, although only 31 when he was killed in the Alps in 1882, had made such a reputation at Cambridge by his scientific work that a professorabip was created for him Another brother, Eustace Balfour, who also died young, married Frances, daughter of the Duke of Argyll Lady Frances Balfour, known as a champion of women's rights, wrote in 1930 a book of memories called Ne Oblivascarus

BALFOUR DECLARATION Term used for the promise of the British Government.

for the promise of the British Government, made through Lord Balfour as Foreign Secretary in 1917, to make Palestine into a "national home" for the Jews after the Great War Thanks largely to this declaration, Britain became the mandatory power for Palestine under the League of Nations in 1919

BALFOUR NOTE Note addressed by Lord Balfour for the British Government in 1922 to the European Powers, undertaking that Great Britain would not demand more in reparations and allied debts than she required to liquidate her own debt to the USA

Balfour Jabez Spencer British financier Born in 1849, he founded about 20 years later, the Liberator Building Society in which great sums were invested. It seemed n which great sums were invested it seemed sound until 1892 when the crash came, over £8,000,000 being involved. Balfour was arrested at Buens Aires and was found guilty of fraud the sentence being 14 years in 1906 he was released and he died at Newport, Mon Feb 23, 1916 He was a Liberal M P for Tamworth 1880 85, and Burnley, 1889 93, the first Mayor of Croydon, and gave away considerable sums of money

Balfour Sir Arthur English was b manu was born in London in 1873 Having settled in Sheffield, he founded the firm of Arthur Balfour & Co and became a dominant figure in the steel industry He served on various committees and was a leader in industrial matters In 1923 he was knighted, and in 1929 received a baronetcy As he was chairman of a committee appointed in 1924 to inquire into the export trade its reports are often called the Balfour

Balfour of Burleigh Lord scot dating from 1607 In 1716 it was forfeited as the holder was a Jacobite, but in 1869 it was restored to a descendant, Alexander Hugh Bruce Recloned as the sixth baron he was Secretary for Scotland from 1895 to 1903 when he resigned as he was a free trader He died July 6, 1921, and the title passed to his son

Balfrush Town of Persia Also spelled Barfurush and Balfurush, it is on the River Bhawal only 12 m from the Casplan Sea. It has a considerable trade with on the River Bhawal only 12 m from the Caspian Sea. It has a considerable trade with Russla which goes partly by caravan and partly on the Caspian Pop 30 000

The chief areas for the fighting were Thrace and Macedonia In Thrace the Bulgars, who and about 300,000 men in the field, besieged Adrianople On Oct. 23 24 they won a great

Balham District in the south west of the Bolough of Wandsworth a thickly populated region, on the S. Rly, and a tube line Tooting Common is near Balham and Tooting unite to send a member to Patliament

Ball Island in the East Indies belonging to Island in the Seat Indies belonging to Island in the Seat Indies belonging to Island in the Seat Indies to the east of Island in the Seat Indies It lies to the east of Island Island

Java and is sometimes called Little Java covers over 4100 sq m, and has about 1 000,000 people The Dutch have owned it since 1849 The inhabitants are Brahmans who grow cotton, sugar, lice and coffee and work in metal Buleleng is the capital On the island, which is subject to earthquakes, is a great volcano over 10,000 ft. high

Ballol Name of a Scottish family Of Ballol French origin it took its name from Baillen In 1290, when Scotland had no king one of the claimants was John Ballol, a descendant of King David I Edward I the overlord of Scotland, favoured him and he was crowned Later however, he took the side of France against England and in 1296 he gave up the kingdom He died in 1315

His cldest son, Edward, was crowned King of Scotland at Scone in 1332, as a rival to David II The Scots turned him out and he only came back by the help of the English king In 1356 he gave up the throne and in 1367

In 1356 he gave up the throne and in 1367 he died, the last of his family

Balk In billiards a line drawn across the table 281 in from the bottom cushion When a ball is in balk it can only be played at indirectly Another balk is the ridge of land left unploughed between two ploughed areas, and a third is a roughly squared beam of

Balkan Peninsula Europe occupied to day by the countries of Yugo lavia Greece, Bulgaria, Rumania and Albania It covers about 350,000 sq m, and has about 40,000 000 people Its boundaries are the 40,000 000 people Its boundaries are the Danube and the Save on the west the Black Sea on the east and the Mediterranean with its subsidiary seas elsewhere It is sometimes called the Near East

called the Near East

The Peninsula is a mountainous district, although there are plains in Rumania and Yugo slavia. The Balkan Mountains run through it, and there are other ranges. The rivers, except the Danube are short and rarely navigable. After 1453, when the Turks took Constantinople, they conquered the Balkans and this region they kept until the 19th century, when their hold was gradually unlossed. One the independent, or semi Independent. by one the independent or semi independent states emerged, the World War finished the process, and to day the Turk has no foothold in the Bulkans for Constantinople (Istaubul) may fairly be regarded as outside it See BULGARIA, RUMANIA, YUGOSLAVIA ETO

Balkan Wars Two wars in 1912 and 1913 waged by the several Balkan states, including Turkey In 1912 Bulgaria, Serbia Greece and Montenegro, formed an alliance to free Macedonia from Turkish rule Mobilisation began, and carly in Oct. Montenegro declared war on Turkey The other members of the league formally asked for the independence of Maccdonia This was refused, and Turkey declared war on Oct 17 Immediately Macedonia was invaded

battle at Kirk Killsse, and a few days later another at Lule Burgas, but they failed on Nov 17-18 to get possession of the Chatalia In Maccionia the Serbians and Greeks, also about 300,000 strong, were operating The Serbians took Novi Bazar, and won a battle at Kumanovo in Oct, in Nov they took Monastir, while the Greeks entered Salonika. The Great Powers renewed their efforts to

stop the war, and on Dec. 3 Bulgaria and Serbla, but not Greece, signed an armistice with Turkev in Feb the war began again Defeat again was the lot of the Turks Adrianople at last surrendered, and the first war ended the Treaty of London Turkey gave up all she possessed west of a line drawn from Midia on

the Black Sea to Enos on the Aegean.

The Second War The Balkan allies quickly quarrelled over the spoil Serbia and Greece attacked by Bulgaria. Having first arranged for her price, the cession of the Dobrudja, Roumania joined the alliance against Bulgaria, and seizing the opportunity, Turkey quickly recovered Adrianople Several defeats inflicted on the Bulgaria. acreed to act together and in June they were attacked by Bulgaria. Having first arranged recovered Adrianople Several defeats were inflicted on the Bulgarians, who were soon forced to make peace A treaty signed at forced to make peace. A tre Bukarest ended the second war

Turkey regained Adrianople and Thrace, east of the Maritza. Her lands west of the Maritza went to the conquerors, Serbia, and Greece and Montenegro, as agreed, obtained the Dobrudia Another result of the war was the creation by

the Powers of an independent Albania

Balkhash Great lake in Central Asia About 120 m from the frontier of China, it is about 330 m long, and covers 8500 sq m Like the Caspian Sea its waters are salt. Another name for it is Tengis

Ball Albert. English airman. The son of an alderman in Nottingham, Ball was born Aug 21, 1896 In 1914 he joined the army, but soon became an officer in the Royal Flying Corns In that sewils he protected in soon became an officer in the Royal Flving Corps In that service he performed some remarkable feats, at least 40 successful air fights being to his credit He became a captain, won the MC and DSO, and was made a freeman of Nottingham On May 7, 1917, he fought his last fight and probably met his death on that day The VC was awarded post-humously, and a statue erected to him in the castle grounds at Nottingham

Ball John English social reformer He was a priest, who went about the country preaching the equality of man, and the need for social reform

His words did much to stir up the peasants in 1380, but he was in prison at Maidstone when Tyler led them to London The rebels freed him, but when all was over he was seized and was hanged at S Albans, July 15, 1381

Ball John. English golfer Born at Hoy-lake in 1863, he became noted as a golfer In 1894, although an amateur, he won the open championship, and he was amateur champion in 1888, 1890, 1892, 1894, 1899, 1910 and 1912, a unique record. He also won the Irish open championship three times Irish open championship three times

Ball Sir Robert Stawell British astronomer He was born in Dublin, July 1, 1840, and was educated at Trinity College there He was chosen Astronomer Royal of Ireland in 1874 He was knighted in 1886, and in 1892 he hecame Professor of Astronomy at Cambridge became Professor of Astronomy at Cambridge He died, Nov 25, 1913 Ball is best known for his lectures and writings, which simplified astronomical facts for average men and women.

Ballad Story or song, usually in short verses

We cannot say when the first ballad was written, but certainly before printing was invented Many of the old ballads had probably been altered considerably as they have been passed down the generations, such, for instance, as those, among the old English ballads that describe the deeds of Robin Hood. Perhaps the most notable of old ballads are those of Scotland and the Border region, such as the Ballad of Chevy Chase. Of many collections of ballads mention may be made of Bishop Percy's Reliques, and Sir Walter Scott's Border Minstrelsy Sometimes humorous verses, such as the Bah Ballads and the Bon Gaulter Ballads, are called by this name, but these are not ballads proper

Ballade Form of poem first used in stanzas, the first three of 7 or 8 lines each, baving a common refrain The rhymes, when 8 lines are used, are a-b, a-b, b c, b-c The fourth stanza consists of four lines, and is in the nature of a summary Villon and Verlaine wrote believes and English readers will find wrote ballades, and English readers will find examples in the poetry of Swinburne and Andrew Lang

Ballantrae Village on the west of Dallantrae Ayrshire, Scotland It is famous because of its association with R L Stevenson's romance, The Master of Ballantrae. It is 12 m from Girvan and its people are chiefly feborage and their results of the state of the sta Ĭt is chiefly fishermen and their families. At one time it was noted for its smugglers. Pop 1100 At one

Ballantyne Robert Michael Scottish author Born in Edinburgh, April 24, 1825, in 1841 he went to Canada as a clerk in the Hudson Bay Company's service In 1848, just after his return to Scotland, he published his first book, Hudson's Bay After this came no less than 80, mostly straightforward stories of adventure Among them are the popular Coral Island and The Lighthouse. He died in Rome Feb 8, 1894 The Lighthouse. He died in Rome Feb 8, 1894

Ballarat City of Victoria, Australia It the second largest city in the state East Ballarat, which adjoins it, is a separate town The city is chiefly known as a centre of the gold mining industry Here, in 1851, a rich gold field was discovered. Pop (1931) 41,750

Ballast Material—iron, stone, gravel or anything heavy that is put in a ship to steady her A merchant ship is said to be in ballast when she has a cargo Some ships take ballast in the form of water, kept in tanks and let in or out as required For the same purpose ballast is carried by balloons

Ballater Village of Aberdeenshire, 43 m Aberdeen, on the LMS Rly. Balmoral is reached from here

Balleny Group of five islands in the Antarctic, called after John Balleny, a whale fisher, who discovered them in 1839 On one of them is a volcano, 12,000 ft. high

Ballet Combined performance of pro-tion of dance and music by a number of performers acting together, and is usually given as a public spectacle. In this form it dates from the 15th century In Italy and in France very elaborate ballets were performed and in their composition the greatest artists and musicians were employed Corneille and Molière, Mozart and Beethoven may be mentioned in this

Earlier, Leonardo da Vinci had connection

worked on a ballet

The ballet was introduced into England in the 18th century and was very popular during the early part of the 19th. It then fell some-what out of favour, but in 1908 Serge Diaghilen introduced the Russian ballet into England, where it made a great impression. It was greatly helped by the dancing of Pavlova, Genee and Isadora Duncan Other names associated with the modern ballet are those of Bakst, Max Reinhardt and Gordon Craig

Ball-flower Ornament found in Gothic architecture It consists of a ball almost enclosed by the soulptured petals of a flower and is effectively used in mouldings of the Decorated Period of the 13th century There are fine examples in the cathedrals of York, Lichfield and Hereford

Ballina Market town and scaport in Mayo, Irish Free State It is on the River Moy, and has a small harbour It is the chief town for the trade of Mayo, and has a suburb, Ardnaree, across the river in Sligo In 1798 the French were for three weeks masters of Ballina Pop 4700

Ballinasioe Way, Irish Free State, on the River Suck, 93 m from Dublin, on the GS Rly Its fair, held in October, where horses, sheep and cattle are sold is one of the largest in Ireland There are also some industries A race meeting is held here in July It is the terminus of the Grand Canal which leads to the Shannon Pop 5100

Ballinrobe Market town of Co Mayo Irish Free State It is on the little River Robe, 15 m from Clanmorris, on the G S Riy A race meeting is held here in Sept. Pop 1600

Balliol College University of Oxford It was founded in 1263 by John de Ballol, father of the King of Scotland Some of its buildings date from the 15th century Its modern reputation for scholarship began in 1870 when Benjamin Jowett became master Inder him was twined acoutt for the contract of the cont Under him were trained Asquith, Grey, Lans downs, Milner and Curzon, and other distinguished people Earlier members include Cardinal Manning, Archbishop Temple and Matthew Arnold, and carlier still was Adam Smith The buildings are in the angle formed by Broad Street and S Giles.

Ballistics Science of gunnery It is studied by artillery officers whose business it is to know how projectics of various weights and shapes will travel when fired It deals with the force of gravity, the resistance of the air and other matters that affect the flight of a bullet or a shell

Balloch Village of Dumbartonshire It stands at the south end of Looh Lomond and is a calling place for steamers on the lake Ballochmyle in Ayrshire is immortal because of Burns's poems The Lass of Balloch myle and Farewell to Ballochmyle

Balloon A device consisting of a bag With balloons the science of aeronauties may be said to have begun The idea that men could invent a machine that could travel in the air is by no means new but it was 1783 before the brothers Mongolfor produced a fairly satisfactory balloon The first balloons were filled with hydrogen, a very expensive form of inflation, but after 1825 codl gas was used

Balloons slowly became more serviceable They were used for exploring the upper air, and in the American Civil War were first used as an aid to military operations. A great increase to their utility came with the invention and perfecting of the dirigible balloon. Although to some extent superseded by the aeroplane and the alrship, the balloon still has its uses Meteorologists find small balloons, called balloon sondes, useful for examining the atmosphere, as, carrying automatic recording instruments, these can rise to heights where man cannot possibly live

The military uses of the balloon were fully proved during the World War, when captive balloons were much used for observation pur poses Some of these, the sausage balloons, a German invention, were of stronger material and could remain in the air during a gale

The ordinary balloon is made either varnished cloth or goldbeater's skin. Over t Over this is a network of fine cord which holds the car is a network of fine cord which holds the car in which the passengers sit. Apparatus for releasing the gas if necessary, and ballast to be thrown overboard, are also provided A balloon race for the Beigian Gordon Bennett Cup is held periodically In 1927 an American balloon, the Detroit was successful Germany holds the ballooning record of 1895 m The British record is 1117 m In 1921 an Austrian professor, period

m The Briush record is 1111 in

In 1931 an Austrian professor named
Auguste Piccard, ascended nearly 10 m in a
balloon With a companion he was in an
hermetically sealed cylinder, and they were in
the air for 17 hours The ascent was made from Augsburg In 1933 a Soviet balloon rose about 12 m into the stratosphere

Ballot Method of secret voting At one time little balls were used for this purpose, as they are to day in certain clubs, and this accounts for the name To day voting papers are employed On one of these the voter makes a mark (x) against the name of the candidate or candidates he prefers and then places it in a sealed box Vote by ballot was first used in England in 1870 at an election for the London School Board. In 1870 at Act for the London School Board In 1872 an Act of Parliament ordered it to be used at all Parliamentary and other public elections. It is used now at elections in all the countries of the civilised world

Ballybunnion Willage on the coast of Kerry, Irish Free State It is 9 m from Listowel a monorali running between the two It has a wireless station.

Ballycastle Seaport in Co Antrim Castle Bay, it is 68 m from Belfast Opposite is Rathlin Island There is some fishing and a little shipping, also a wireless station Pop 1500

Ballyclare Market town of Co Antrim, of Belfast The bleaching of linen is the chief industry Pop 3300

Ballymena Urban district of Co Antrim, N Ireland It is on the River Braid 33 m from Belfast, on the L.M.9 (Northern Countles of Ireland) Rly, and turns out a great quantity of linen Pop 11 300

Ballymoney Market town of Co An from Coleraine Linen is manufactured, and the market is a fairly important one Pop 3100

Ballymote Market town of Co Sligo, Irish Free State It is 14 m.

The Book of Ballymote, now in the Royal Irish Academy, contains some valuable information about the early history of Ireland It is written in Gaello, on vellum A facsimile of it was published in 1887

Ballynahinch Market town of Co Ballynahinch Down, N Ireland. It is 21 m to the south of Belfast and on the Belfast and Co Down Rly People visit it to drink the waters Pop 1600

Seaport and market town of Co Donegal, Ballyshannon Irish Free State It is built on both sides of the River Erne, 3 m from Lough Erne, and 15 m from Donegal, on the G N Rly Small vessels can enter the harbour, and the place is a centre for salmon fishing To the old Irish Parliament Ballyshannon sent two members Pop 2300

Anything with a soothing or healing quality The word is a shortened Balm form of balsam Balm of Glead, or oleobalsam, is obtained from trees that grow in Arabia and Abyssinia, where it is valued as a medicine and as a scent In N America there is a poplar called Balm of Gilead The buds of this provide a medicine See BALSAM

Balmain Town of New South Wales, and really a suburb of Sydney It stands on the western side of Darling Harbour, and is an industrial area, with factories for the making of soap and other articles, and also shipbuilding yards There is a coal shaft, said to be the deepest in the world

Balmerino Lord Scottish title It is to taken from a village in Fife-In 1604 Robert shire, 4 m from Dundee Elphinstone was made Lord Balmerino, and his descendant, Arthur, the sixth lord He was taken prisoner at Culloden and was beheaded on Tower Hill, London, Aug 11, 1746, the last person to die in this way in England.

Balmoral Royal residence in Aberdeen-shire It is 8 m from Ballater, which is its railway station The Dee flows by it, and the scenery around is magnificent The estate was bought by Prince Albert in 1848, and soon afterwards the castle was built Queen Victoria spent a good deal of time here The estate now covers about 25,000 acres, much of which is a deer forest. It then became the Scottish residence of King Edward VII, and later of King George V

A Scottish cap is called the Balmoral

Balquhidder Beauty spot of Scot-quhidder, famous for connection with Rob Roy, are in Perthshire, near Loch Voil The village is on the L MS Rly, and in its church-yard Rob Roy was buried in 1734

Balsa Tree growing in S America The wood is very light and therefore very useful for many purposes, eg, the construction of alreraft. It is used by the Indians for rafts, and on this account the raft is called a balsa The logs are connected together and sometimes covered with hide, and are then propelled by oars or sails

Balsam Herb and resin Balsams are of two kinds, although the one is related to the other One class are herbs and the other resins They possess fragrant or healing properties, perhaps both

from Sligo, and is on the GS Rly There are and N America. A large group called *impatiens* ruins of a castle\_there. Pop. 900. Have a curious characteristic. When the seeds are ripe the seed vessel rolls up suddenly and bursts scattering the seeds with much force. The common balsam and the giant balsam grow in gardens. The latter has a stem 10 ft. high. The yellow balsam called touch-me-not, grows wild, as do other kinds. The balsams of India bare white and red flowers. India have white and red flowers has its own variety of balsam trees Australia

The gums and resins called balsams are obtained from certain trees, usually by cutting the bark. They give out a pleasant if pungent, odour and are much used in making drugs and medicines Some are used to make incense and varnish Balsam of Peru and Balsam of Tolu are obtained from trees growing in Central and S America Balsam of Copaiba from the same area, is one of the most useful From its resin an oil is distilled, which has a high medicinal value

The balsam fir is a tree that grows in the United States and Canada Sometimes called the balm of Gilead fir, it grows at times to 60 ft From it is obtained a fluid called high Canadian balsam, very useful as a cement

One of the Shetland Islands Balta Balta Sound is the strait separating that island from Unst The name is also that of island from Unst a town in Ukraine

Baltic The Company of merchants in Named after the Baltic Sen, its full title is the Baltic Mercantile and Shipping Exchange It has about 2500 members —shipping merchants, shipowners and ship-brokers The offices are in St Mary Axe, E 6 The older Baltic was a company of merchants, founded in the 16th century, who traded with ports in the Baltic The present company, although it keeps the name, by no means confines itself to the Baltic trade

Baltic Port Small seaport in Estonia Tallinn It is the only harbour in the gulf of Finland that is open all the year The Estonian Government been made it. Government has made it a free port, and a railway runs from here to Reval

Baltic Sea Great sea of N Europe It narrow channels between Denmark and Sweden connect it with the North Sea The Kiel Canal is a shorter and safer route between the two seas

The Baltic covers 170 000 sq m, and in it are the Gulfs of Bothnia, Finland and Riga The countries bordering it are Sweden, Denmark, Germany and Russia, as well as the newer ones, Finland Latvia, Lithuania, and Estonia, which are called the Baltic States In it are many islands, Gothland and Dago among them, and several belonging to Denmark Many rivers flow into it, the longest being the Vistula and the Oder The chief ports are Copenhagen, Stockholm, Helsingfors, Leningrad, Stettin, Lubeck, Riga, Libau, and Reval Navigation is hindered during some months by ice, but ice breakers do something to lessen this handicap to trade

In the 16th and 17th centuries the Baltic Sea was, from the commercial point of view, far more important than it is to-day Its ports were among the richest and most prosperous in the world and in union they formed the

powerful Hanseatic League

healing properties, perhaps both
As herbs the balsams are a large genus Most
of them grow in tropical countries, but some are
found in Great Britain and other parts of Europe

healing properties, perhaps both
During the World War there was some
fighting in the Baltic between the Russian and
the German Navies
The difficulty of entering
the sea isolated the Russian Navy from its

in 1915 and 1916 harassed the German ships therein.

Baltimore City of the United States, the capital of the State of Maryland and an important scaport. It stands on the Patapsco River 11 m from Chesapeake Bay and 185 from New York, and owes its importance to its position near the sea on the page side and the great producing areas of coal. one side and the great producing areas of coal, cotton, wheat and other necessaries on the other

allies, but British submarines got through, and

Baltimore is a modern city with straight streets on the American plan Its area was enlarged in 1918 The Johns Hopkins Uni-versity, the Johns Hopkins Hospital and the versity, the Johns Hopkins Hospital and Enoch Pratt Library are notable features. Shipping is the city's chief industry. Th

There are two harbours which are well provided with docks and all modern facilities for storing and handling cargoes Steamers go regularly to ports on both sides of the Atlantic Baltimore is a great railway centre, and lines radiate in all directions. Many manufactures are carried on and much food is preserved here. The city recommended in 1700. was founded in 1729 and much of it was burned down in 1904 Pop (1930) 804,874

Baltimore Village of Co Cork, Irish Free State It stands on Baltimore Bay, 8 m. from Skibbereen, on the GS Rly The people are chiefly fisherfolk, and here, in 1887, the Baroness Burdett-Coutts set up a school for teaching the technique of

fishing

Baltimore Lord Irish title It famous because the connection of its early holders with the American colonies George Calvert, a York shire man became an M.P and was from 1610 to 1625 Secretary of State After he resigned he to 1625 Secretary of State After he resigned according to the Atlantic in order to found a colony in Newfoundland and just before his death April 15, 1632, he had secured a large slice of land further south This became the property of his son Caecilius (1606 75), who founded there the State of Maryland. Its capital was called Baltimore

Baluchistan Province of India It is its position on the frontier, Persia and Afghanistan being its neighbours. It has a coastline of 600 m on the Arabian Sea and consists of three parts. The smallest part is British Baluchistan, a British possession since 1879 Next is the British Agency Territories under the direct rule of the Indian Government

The largest part of Baluchistan consists of the native states of Knalat and Las Bela These have their own rulers but a political agent watches their affairs in the interests of India as a whole Altogether the country covers 134.638 so m. and has (1931). 868.617 134,638 80 868,617

inhabitants

Baluchistan is mountainous, and has a few short rivers The people are chiefly Baluchis, Pathans and Persians, who live a somewhat primitive life They grow cotton cereals and dates, rear camels and horses and trade with India and Persia From time to time its tribes cause anxiety to the Indian Government, as, for instance, in 1918 when an expedition was sent against them

novelist Balzac Honoré de French novelist He was born May 20, 1799, at Tours, obtained his education at Vendome and in Paris and was for a time in a lawyer's

brought him very little, and in a short time he was home again

The change in Balzac's fortunes began in 1829 or thereabouts, and The Chouans, 1829, and The Wild Ass's Skan, 1831, mark the change For twenty years he wrote almost incessantly He lived in various places, associated with all kinds of people and recorded his observations in his books He died on Aug

18, 1850

Balzac must obviously be compared with Dickens Both wrote a great deal, both drew largely from their own wide experiences of life, both showed an intimate knowledge of the human heart Balzac is the coarser Dickens has the more genuine humour The greatest of Balzac s productions is The Human Comedy This and his other books have been translated

into English

Bamberg City of Bavaria. It is 36 m from Nuremberg, near where the River Regnitz falls into the Maine There is an upper and a lower town The interest of the city lies in its cathedral, rebuilt in the 13th century, and other old buildings Two palaces are reminders of the time when the Bishops of Bamberg were great princes ruling a wide territory, at one time this covered 2000 sq m The city carries on various manufactures and has some shipping along the river Pop 50 152

Bambino Representation of the Infant Jesus Christ in swaddling clothes They are much seen in Italy where some are the work of the great artists. The most famous, in the church of Ara Coeli in Rome is believed to work miracles. It is shown on the Epiphany Jan 6, which is the Feast of the Bambino The word is Italian, meaning ' baby "

Bamboo Malayan name for a grass It in India, China and other parts of Asia It is also found in America and Africa especially the West Indies, and some species will grow in English gardens The stem of the bamboo, which sometimes grows to a height of 100 ff are more combines lightness and strength, and or more, combines lightness and strength, and is therefore very useful for building furniture, etc. The young shoots and seeds are eaten, and paper is made from the mature plant.

Bamburgh Village on the coast of Northumberland famous for its ruined castle Bamburgh is 4 m from Belford It was, in the 6th century the residence of the Kings of Northumbria, and on a rock looking out to sea King Ida built the first castle Being near the Scottish border was often attacked, and after the Wars of the Roses became a ruin In 1894 it was restored S Aidan's Church is a 7th century building and in the churchyard Grace Darling is buried

Bampton Village of Devonshire It is Tiverton, on the GW Rly It is famous for the fair held every October, when ponies sheep and cattle are sold Pop 1100 Another Bampton is a village

in Westmorland

The Bampton Lectures are eight sermons or lectures delivered in Oxford every year by a leading theologian of the Church of England They are afterwards published The fee to the preacher is £120 a year, left by the Rev J Bampton, Canon of Sallsbury, who died in 1751

Banana Tropical tree and fruit, also called the plantain. The fruit of office However he refused to become a larger and began to write, living in the banana tree is a popular article of food meanwhile in poverty in Paris His first books to-day, and its cultivation has become a great

industry in the West Indies, East Indies, Uganda and other tropical countries The tree, of which there are several varieties, will grow to a height of 20 ft It has a high food value and contains less water than most fruits.

Great Britain's supply comes chiefly from the Great Britain's supply comes chiefly from the West Indies, Columbia and the Canary Islands The banana, however, has other uses The fruit is dried and ground into a meal, or used in making an intoxicating liquor Bananas are exported in bunches when green, being allowed to ripen later, and special vessels have been built to carry them In 1932 16,823,000 bunches of bananas were imported into Great Britain In 1927 Jamaica decided to tax the bananas exported bananas exported

Banat Hungarian district, 11,000 sq m in area, bounded by the Danube and the Theiss Its capital is Temesvar and its full name the Banat of Temesvar. It became part of Hungary in 1718 After the war the Peace Conference decided to divide it between Payments and Vergeleric

Rumania and Yugoslavia

Banbridge Market town of Co Down, Ireland So called because it stands on the River Bann, it is 24 m from Belfast, on the Great Northern (Ireland) Rallway, and is famous for the linen produced here Pop 5000

Banbury Borough and market town of Oxfordshire It is 77 m from London and 21 from Oxford, on the GW and LMS Rlys Its cross, familiar through the nursery rhyme, was pulled down in 1610 the present cross is modern There are some manufactures, but Banbury is chiefly a market for the sale of corn, cattle etc. A horse show is held in August. Pop (1931) 13,953

Banbury Lord English politician Frederick George Banbury was born in 1850 and educated at Winchester He in 1850 and educated at Winchester He became a stockbroker and was long chairman of the G N Rly In 1892 he entered the House of Commons as a Unionist, first as M P for Peckham, and then for the City of London In 1902 he was made a baronet In the House where, except for a few months, he remained until made a baron in 1924, he was a most persistent questioner Nothing escaped his notice and the slightest inaccuracy in procedure was quickly pointed out by him His only son was killed during the Great War was killed during the Great War

Banca Island of the Dutch East Indies It is 150 miles long and covers about 4550 sq miles Muntol is the capital A great deal of the and some other metals. are mined, bananas, rice and other tropical products are grown, and much of the island is covered with forest The Strait of Banca separates Banca from Sumatra Of the population of 120,000, about 40,000 are Chinese

Banchory Health resort and market town of Kincardineshire It is on the Dee, 17 miles from Aberdeen, on the L N E Rly, and is a popular holiday resort Pop 1800

e

Bancroft George American historian Born at Worcester, Mass October 3, 1800, he was educated at Harvard and travelled in Europe, where he made friends with Goethe and Hegel In his own country he was in turn a calculated. was in turn a schoolmaster a collector of customs at Boston and a politician as Secretary of the Navy This led to a post abroad and he was minister in London from 1846 to 1849, and in Berlin from 1867 to 1874 He died in Washington Jan 17, 1891 Bancroft was the

author of an authoritative History of the United States

Bancroft Sir Squire English actor. 1841, he first appeared on the stage in Birmingham In 1865 he appeared in London, where he made a reputation by playing in T W he made a reputation by playing in T W Robertson's comedies, Society, Caste, and others More important, as an aid to success, was his marriage in 1867 to the actress Marie Wilton Spoken of as the Bancrofts, the pair acted together and from 1879 to 1885, when they retired, they managed the Havmarket Theatre London In 1897 Bancroft was knighted and on April 19, 1925, he died Lady Bancroft died May 22, 1921 The Bancrofts wrote On and Off the Stage and Recollections of Sixty Years.

Banda Name give to twelve small islands in the Dutch East Indies They are 60 miles south of Ceram, and cover 18 square miles At one time a British possession, they have been Dutch since 1814 The chief town is also named Banda and the sea in which they are is the Banda Sea The islands are subject to volcanoes and earthquakes

Bandana Handkerchief made in India of fine silk. It is usually very brightly coloured, with designs or spots in white on a coloured ground The word is also used for a material of silk or cotton that is made in much the same designs and colours

Bander Abbas Seaport of Persia, also called Bender or Bunder Abbas It is near the entrance to the Persian Gulf Through it passes a good deal of Persia's trade, the exports including dates and carpets. As the harbour is an open roadstead lighters are used to carry the goods to and from the shore During the Great War the harbour was controlled by the British Pop 10,000

Banderillero Participant in a bull fight They are the men who plunge banderillas, or small darts about 18 in long, into the bull to enrage him

Banderole Long, narrow flag which fles at the masthead of a fighting ship, or sometimes carried at the funeral of a great man. The word was also used for the streamer fastened to the lance of a knight and had other meanings now obsolete Another spelling is Bannerol

Bandfish Fish with a long, thin, flat They have tiny scales and are red in colour, but are rarely seen in Great Britain

Bandicoot Animal found in Australia-There are several kinds Like the kangaroos they are marsupials, 12. they carry their young in pouches, and the hind legs of the two are similar. The bandicoot however, is smaller, only about the size of a rabbit With a pointed nose, it feeds chiefly on insects.

Band of Hope Temperance Organ-societies called by this name were founded, chiefly among the pupils in Sunday Schools conducted by Nonconformists The members promise to abstain entirely from the use of intoxicants. In 1855 the Band of Hope Union musicalis in 1835 the Band of Hope Union was established as a central organisation. Its offices are at 59 and 60 Old Bailey London, E.C. It issues a paper, The Band of Hope Chromole Scotland and Ireland have each a Band of Hope Union. Bandolter Belt worn by soldiers over the left shoulder for the purpose of carrying cartridges. These are placed in loops sewn in the belt. An ordinary bandolier holds about 90 rounds

Bandon Town and river of the Irish called Bandonbridge, is a market town in Co Cord, 20 miles from Cork, on the GS Rlys Its industries include brewing and distilling It was founded in 1608 by the Earl of Cork for Protestants Pop 3100 About 5 m down the river is Bandon Quay, or Kilmacsimon Onex where there is a certain amount of Quay, where there is a certain amount of shipping

The River Bandon is 40 m long It flows past Bandon into Kinsale harbour and is noted

for its salmon

Bandon Earl of Irish title, held since Ison by the family of Bernard In 1755 Francis Bernard, an MP and a landowner in Co Cork, was made a baron, and in 1800 an earl He died in 1832 The family seat is Castle Bernard, near Bandon, and his cidest son is called Viscount Bernard

Bandy Kind of hockey played on the ice Eleven players take part on each side The ground should be 150 yards long by side The ground should be 150 yards long by 100 wide, although the game can be played on a smaller area. The sticks, or bandles, should not be more than two inches wide and four feet long and the ball, or cat, is of hard rubber, about the size of a lawn tennis ball. The goalposts are 12 feet wide

Baneberry One of the names for a herb found wild in copses in the north of England, chiefly on limestone it bears small white flowers and black berries which are poisonous The herb christopher

Banff also the county town of Banffshire also the Moray Firth, facing north, and is 50 miles from Aberdeen and 72 from Inverness, being reached by the LNE Rly The industries include fishing and shipping, for which there is a harbour with good accom modation As a pleasure resort Banff has many attractions, including two golf courses and fishing in the Deveron Pop (1931) 3489

Banff Pleasure resort of Alberta, Canada. In the Rocky Mountains, it is an important station on the main line of the CPR. It is on the Bow River, 88 miles from Calgary, and stands in an immense national park Around is magnificent scenery, while further attractions are hunting and fishing. Banff has Pop 1000 some medicinal springs

οf Scotland County Banffshire In the north-east of the country, it covers 630 square miles and has a coastline of 30 miles on the Moray Firth Much of it is mountainous, but there is some low and fertile land near the coast. It contains Ben Macdhui the second highest mountain in the British Isles The chief rivers are the Ben Macdhul the second highest mountain in the British Isles The chief rivers are the Deveron, Spey and Avon Banff is the county town Other places are Cullen and Buckle on the coast, Keith, Macduff and Dufftown The Duchess of Fife and the Duke of Richmond

The Duchess of Fife and the Duke of Richmond are landowners Pop (1931) 54,835

Bangalore Capital of the Indian state of Mysore To the Hindus the city of beans," it is 225 miles from Madrus, from which it can be reached by railway Standing high, about 3000 feet, it is healthy and on that account has a considerable

European colony The most interesting building is the fort, in which are the remains of Tippoo Sahib's palace Bangalore was founded in 1537 and was taken by the British in 1791 To day it is an important military station Pop (1931) 306,470

Bangkok Capital of Slam and its chief River Menam about 20 miles from its mouth The old city is surrounded by walls Outside are other cities the native quarter, the populous Chinese quarter and the commercial quarter Bangkok is the centre of an excellent railway system and from it main lines go to all parts of the country. In the city itself are many canals which are used as highways and on which many people dwell in bosts.

Bangkok is the banking and commercial centre of Siam, but its chief industry is shipping.

Owing to a bar in the river, large ships load and unload on the island of Kohsi Chang Bangkok has a wireless station Pop 452 000,

about a third being Chinese

Bangor City of Caernaryonshire It stands on the Menal Strait, 8 miles from Caernaryon and 235 from London, and is reached by the LMS Rly Here the tubular and suspension bridges cross the strait, as Bangor is on the direct road to Holyhead The industries include the export of slate from the Bethesda quarries Here is the University College of North Wales and it has had a bishop since the time of S Deiniol in the 6th century The present cathedral was built in the 16th Pop (1931) 10,959

Another Bangor is a village in Flintshire and another a town in Maine, U S A

The Bangorian Controversy was a dispute in the Church of England about the nature and extent of the church's authority over individuals It was started in 1717 by Benjamin Hoadly, Bishop of Bangor industries include the export of slate from the

Bangor Scaport and market town of Co Bangor Scaport and market town of Co stands on Belfast Lough, 12 miles from Belfast and is served by the Belfast and County Down Railway The industries include fishing, but Bangor is better known as a watering place Here was a famous abbey destroyed in the 9th century by the Northmen Pop (1926) 13.316

Bangweolo Lake Shallow lake, 3700 ft above sea level, in N Rhodesia, formed by the head streams of the Congo It was first discovered in 1868

the Congo It by Livingstone

Banian Nautical term To seamen banian Banian Nautical term To seamen banian banian days are days on which the food is poor, or on which no meat is served At one time there were two banian days each week in the British Navy and later one no meat being provided The phrase comes from the bania a caste of Indians, chiefly traders and moneylenders, who do not cat meat.

Banishment Forcible removal from one 9 own country. It differs from outlawry which, strictly speaking, is to put a man outside the protection of the law, and from transportation which is sending a criminal to a definite place

Banjermassin Capital and seaport of Dutch Borneo It is on the south coast, built on both sides of the River Martapura There is a certain amount of shipping and all round are rice fields. As it lies very low the town is often flooded and consequently many of the houses are built on piles. Here in 1700 the East India Company set up a trading station It became a Dutch has an additional bank holiday-S Patrick's possession in 1817 Pop 50,000

Banjo Instrument used to accompany they are made with five, six or seven strings, and are played by plucking the strings with the fingers, or striking them with the backs of the nails The banjo may also be played with a plectrum

Bank Place where money is kept and where dealings in money are conducted. In Great Britain banks are regulated by special laws which make it practically impossible for a private person to carry on a bank,

as was done before 1834

Banks are of several kinds (1) International banks, such as the Bank for International Settlements opened at Basel in 1930 (2) State banks, such as the Commonwealth Bank in Australia and the Federal Reserve Banks in the USA (3) Joint stock banks, such as Llovd's the Midland, the Chartered Bank of India and others that have branches throughout the countries which they serve (4) Banks such as Baring's and Rothschild's that are occupied chiefly with foreign business (5) Savings Banks, including the Post Office Savings Bank, which receive and pay out money, but do not carry on other banking business In this class are municipal savings banks such as the one at Birmingham

The settling of accounts between the different

banks is carried out by means of clearing houses The chief of these is in Post Office Court, Lombard Street, London, E C Valuables such as jewellery, plate, etc., can also be deposited at a bank for safety, the banker

acting as a bailee

Banker Card game. Banker Card game It can be played by five or six persons The full pack of 52 cards is used The dealer deals out three cards to each player and then turns up three cards to each player and then turns up for himself until an eight or a lower card appears. A pool having been provided by contributions from all, betting begins. Each player, other than the dealer, without looking at his cards, may bet, up to the amount of the pool, that one of his cards in the same suit is higher than the one which the dealer has turned up. At the end of the round the contents of the pool so to the dealer. Another tents of the pool go to the dealer Anoth player then deals and the game continues Another

Banket Kind of rock Gold is obtained other material, for instance the sand in river beds. Its most prolific source, however is the rock in what is called banket formation, as that of the Rand

Bankhead Tallulah American actress She was born in Duntsville, Alabama, U.S.A. Jan 31, 1902 and began her stage career as Gladys Sinclair in Squab Farm at the Bijou Theatre, New York, in 1918 Her first London appearance was as Maxine in The Dancers in 1923 In 1930 she played the heroine's part in The Lady with the Camellias

Bank Holiday Day on which by law must be closed. Other business houses also close on these days which have become general holidays. In England and Wales the bank holidays are Easter Monday, Whit Monday, the first Monday in August, and Dec 26 (Boxing Day), if it is a weekday and if not Dec 27. holidays In England and Wales the bank holidays are Easter Monday, Whit Monday, the first Monday in August, and Dec 26 (Boxing Day), if it is a weekday, and if not, Dec 27 Good Friday and Christmas Day are not strictly speaking bank holidays, although they are general holidays The reason is that they were holidays before the passing of the Act of 1871 that established bank holidays Ireland

Day (March 17). In Scotland the bank holidays are New Year's Day, the first Monday in May and the first Monday in August, also Christmas Day and Good Friday Other days, for instance, a coronation day, can be made bank holidays by royal proclamation

Banking Business of receiving and lending money The banking system is based on the fact that in consideration of safety and accessibility people are willing to lend money at nominal or even no interest and to allow it to be lent by the banker to others at a substantial rate of interest. The banker, in short, makes his profit by borrowing cheap and lending dear To this primary business modern banking has added the issue of notes, which were in origin and still are in theory promissory notes, and the facilitation of commercial transactions by the buying and selling of bills of exchange

Money is placed with a banker either on current account or on deposit In the former case the money may be withdrawn at any time and as a rule no interest is allowed. In the letter case notice of withdrawal is required Of the money received by the banker only sufficient is kept in cash to meet the daily requirements of customers. A certain amount is invested in gilt-edged securities, but the bulk of it is used

for loans on approved security

The first bank in the modern sense was the Bank of Amsterdam founded in 1609 Until the establishment of the Bank of England in 1694, such banking as there was in England was carried on by goldsmiths who received deposits of money and valuables and issued receipts which by usage were treated as negotiable instruments. The issue of notes by the Bank of England, which was a new feature of banking, may have been based on this practice

In the 18th century all over the country In the 1sth century all over the country private banks sprang up and these did the banking business of the land in a haphazard fashion until the 19th century. The important legislation of 1834 made it practically impossible for futher private banks to be established and a little later the limited liability company was introduced. Gradually most of the existing banks heaven companies of this the existing banks became companies of this kind, and as they had a considerable amount of uncalled capital they were able to offer good security to depositors who had lost heavily

Towards the end of the 19th century a process of amalgamation set in with the result that in a few years the ordinary banks, save one or two, were gathered into five great organisations, Midland, Llord's, Barclay's, Westminster and National Provincial Some retained their name and identity, but they are none the less part of one of the "big five," which also controlled banks in Scotland and Ireland

The great development of banking in the 19th century was facilitated by the use of the cheque, which is really a bill of exchange These are now used on an enormous scale for

advancement in the profession Scotland and Ireland have similar institutes

BANKING AS A CAREER An application of an appointment to a clerkship in a bank should, as a rule, be addressed to the Stoff Department at the Head Office of the Bank, though in some cases appointments are made locally It should be supported by the introduction of a substantial customer of the bank or of some responsible person connected with it All candidates will be required to produce evidence of a good general education, and if their application is favourably considered, must pass an entrance examination, which is usually, though not invariably, excused to holders of a Matriculation or School Certificate

The usual ages for admission to Clerkship are from 17 to 19 and the commencing salary at the earlier age is from £70 to £90 a year in London and about £20 a year less in the country For the first fifteen years there is a scale of salaries which in normal cases will bring the salary at the end of that period to a sum varying from £350 to £400 a year As a rule all the administrative positions are

As a rule all the administrative positions are filled by appointments from the clerical staff, and there is therefore the fullest opportunity to rise to positions which in some cases command very high salaries Salaries are paid free of Income Tax, and in all the large banks pensions are available on retirement at the age of 60 65 and Provident Funds or other arrange ments exist by means of which provision is made for allowances in case of a breakdown in health and for grants to widows and orphans in the case of death

After appointment clerks are expected to pass the Associate Examination of the Institute of Bankers This examination is in two parts, preceded by a Qualifying Examination, exemption from which is granted to holders of the recognised School Certificates (1.c. the "First Examinations" according to the classification of the Board of Education)

The subjects of the Associate Examination are the Practice and Law of Banking Economic Control of the Control of

The subjects of the Associate Examination are the Practice and Law of Banking, Economics, English Composition, Foreign Exchange, Commercial Geography Accountancy, and the chief commercial languages

It is usual to make a monetary grant of £15 on completion of Part I and an additional £30 on obtaining the Associate Certificate A good place in the pass list is an important element in future promotion

Some of the larger banks offer appointments to the holders of a University Degree, the age of admission and the commencing salary being higher than in the case of ordinary appoint ments, and there is also a system of loreign scholarships for selected men willing to go abroad

Banking Term used by airmen It means making an aeroplane turn to one side To bank his machine the airman raises one wing above the other so that he can turn it rapidly

airman raises one wing above the other so that he can turn it rapidly

Bank Note Paper unit of currency notes are only issued by the Banks of England and Scotland but in the 19th century any hank could issue them although after 1834, only under street conditions In Scotland notes for 21 are issued In England the lowest was for 25 but since 1928 Bank of England currency notes for 10s and 21 have been issued They are legal tender

English bank notes are printed on special paper made at Laverstoke and great precautions are taken to prevent forgeries. The Chinese used notes in 2800 B o In 1658 the

Bank of Sweden issued them and soon they were found in most European countries England and Scotland used them before 1700

Bank of England Bank that acts as banker to the British Government About 1691 a Scotsman, William Paterson, who was in favour with William III, propounded a scheme for the establishment of a central bank, and in 1694 parliamentary sanction was obtained for the issue of a charter creating a corporation styled "The Governor and Company of the Bank of England," with a capital of £1,200,000 The Bank was empowered to carry on all such transactions as were carried on by the continental banks and in addition was given the

privilege of issuing notes

By an act of 1826 the Bank was given a
monopoly of issuing notes for London and
65 miles round, and by the Bank Act of 1844
the Bank was divided into two distinct sec
tions—the issue department and the banking
department As the private banks disappeared
it secured without further legislation the
monopoly of issuing notes for the whole of the
country, but this privilege was partially
suspended during the World War when the
Treasury superseded the use of gold as currency
by issuing currency notes for £1 and 10s In
1929 the issue of currency notes was transferred
from the Treasury to the Bank

The Bank of England carries out many state functions, such as fixing the bank rate, and acts as banker to the British Government and to the joint stock banks. Its headquarters are in Threadneedle Street, London, E C, and it is under the management of a governor, a deputy governor and directors appointed by the stockholders, its principal officer being known as the comptroller. The work of rebuilding the Bank on a much enlarged plan was completed in 1931

Bank Rate Rate of discount allowed from time to time by the central bank of a country, eg, the Bank of England, on first-class bills of exchange The effect of the bank rate is to regulate the rate of interest charged by bankers which is usually one per cent above bank rate. The bank rate is determined by the state of the country's gold reserves. When these are depleted, the bank rate is raised, and the resulting dearness of money attracts a flow of gold into the country.

Bank Return Statement of liabilities have the Bank of England is required to publish weekly It is divided into parts, the first showing the state of the issue department, ie, the amount of notes outstanding and the gold and securities held against them and the second the state of the banking department

Bankruptcy Condition of a person by a court of law as unable to pay his or her debts. The English law of bankruptcy is contained in Acts passed in 1914 and 1926, both founded on an Act of 1883. Their object is to protect the debtor's property and to distribute his assets fairly among his creditors. A man can become bankrupt by filing his own petition, or can be made bankrupt by his creditors, if he owes them more than £50. After his property has been distributed among his creditors he is released from all his liabilities towards them, but his discharge can be suspended if there is reason for it. In that case he is an undischarged bankrupt and cannot trade in his own name. He is, however, liable

as not keeping proper account books.

There is a court of bankruptcy in Carey Street, London, WC Elsewhere bankruptcy cases are heard in the county court There the bankrupts are examined before judges or redefine when were the management. registrars, who watch over the management of their affairs. In Scotland bankrupter is called sequestration

Banks Sir Joseph English naturalist. Born Feb 13, 1743, he was a son of William Banks, MP for Peterborough He studied natural science at Oxford, particularly botany. Having inherited a large fortune from his father, he made a scientific expedition to Newfoundland and Labrador in 1766 He went with Captain Cook to the Pacific in the Endearour which was fitted out at his expense In 1772 he made an expedition to Iceland was elected president of the Royal Society in 1778, created a baronet in 1781, and sworn of the Privy Council in 1797 He died, June 19, 1820, and bequeathed his collections to the British Museum

Banks gave his name to an island in the Arctic Ocean and to Banks Strait which separates it from Melville Sound and connects McIville Sound with the Arctic A group of islands in the S Pacific is called Banks Islands, and there is a Banks Island off British

Columbia.

Bankside District of London famous because here stood the Globe Theatre of Shakespeare's day It is on the south side of the Thames, in the city of Southwark In the time of Elizabeth there were several theatres here, also rings for bull and bear baiting

Bann Two rivers of Northern Ireland, the Upper and the Lower Bann. The former rises in the Mourne Mts in Co Down and flows into Lough Neagh, the latter flows out of Lough Neagh and debouches into the Atlantic at the mouth of Lough Foyle. The Lower Rapp is the houndary between the Lower Bann is the boundary between the counties of Antrim and Londonderry.

Bannatyne George Scottish collector Born in 1545, he was a native of Forfarshire and carried on business as a merchant in Edinburgh Having, in 1586, fled from Edinburgh, owing to an outbreak of plague, he amused himself in the country by collecting and writing out Scottish poems of the 15th and 16th centuries He died in 1608 The Bannatyne Manuscripts (800 follos) are now in the National Library, Edinburgh, and are valuable sources for Scots Poetry In 1823 Sir Walter Scott was instrumental in founding the Bannatyne Club for the publication of Scottish historical and literary material.

Name for a flag, especially a flag carried on festive occasions Banner In medieval times it was the flag, bearing the coat of arms of a noble, which was carried before him and his men when they were summoned to join the royal forces

At one time there was an order of knights banneret, these being knights higher in rank than knights bachelor, but lower than baronets than knighte bachelor, but lower than paronets A knight banneret was a man knighted on the battlefield for gallant conduct, the last case of the kind being Sir John Smith, knighted by Charles I at Edgehill (1642) Earlier a noble who brought his vassals to battle under his own happer was a banneret. own banner was a banneret.

to punishment if he has been guilty of acts of Bannockburn Burgh near Stirling fraud or has committed certain offences, such Bannockburn in the county of Stirling, Scotland Originally a coal mining village, it has developed into a small town with various

industries, chiefly textile

Its name is celebrated for the decisive battle
in which Robert Bruce defeated Edward II's attempt to relieve the English garrison at Stirling, and secured the independence Scotland It was fought on June 24 1314 exact site of the battle is doubtful Recent research tends to show that the actual engagement took place about 2 miles east of the place that is traditionally known as the field of Bannockburn In 1929 the site was bought for a national park.

Banns a marriage Announcement in a church that between two persons named The custom dates from the time when, there being no dally newspapers, forthcoming events were announced in a public place Banns are used in the Church of England and the churches associated with it, the Roman Catholic Church and the Church of Scotland In the Church of England they are obligatory, unless a licence from the bishop or a certificate from a registrar has been obtained. They must be read in the church of the parish or parishes in which the pair live This is done at morning who know of any "just impediment" to the proposed marriage are asked to declare it. See MARRIAGE

Banshee Fairy or spirit that announces death In Ireland and parts of the Scottish Highlands the people believe in a banshee, a fairy who makes mournful noises near a house when a person is about to

Banstead Village of Surrey It is on the edge of Banstead Downs, a fine open stretch of common, and is 14 miles from London by the S Rly

Bantam Most westernly province of Java, Dutch East Indies It covers an area of 3050 sq m The region is volcanic and there are numerous geysers and hot springs The principal products are rice, indigo coffee and pulse The capital and seaport

Bantam Small fowl, produced by a special method of breeding Nearly every ordinary breed of fowl has its bantam breed. The flesh of bantams is very content but they are record major for show. succulent, but they are reared mainly for show purposes The males are very pugnacious The name is that of a district in Java from which bantams are said to have come

Bantam is also used for anything small In Bantam is also used for anything small in boxing bantam weights are fighters under 8 stone 6 lb The bantam battalions in the World War were composed of men too small to pass the usual physical tests

Banteng Wild ox found in the Malay peninsula and the islands in that region They live in the jungle and are

very fierce

Banting Frederick Grant. Canadian 1891, he was educated at Toronto His name is associated with the insulin treatment for diabetes, which he discovered during investigations into pancreatic secretion, 1921-22 He was awarded the Nobel Prize, 1923, and an annuity to enable him to carry on his and an annuity to enable him to carry on his work.

Bantock Sir Granville English musician 7, 1868, and was educated for the Indian Civil Service, but abandoned that idea for music He had a distinguished career at the Royal Academy of Music, being the first winner of the MacFarren scholarship for composition. MacFarron scholarship for composition He toured America and Australia as conductor of the Galety Orchestra and was musical director the Galety Orchestra and was musical director of the Tower, New Brighton In 1900 he became director of the school of music in Birmingham and in 1908 professor of music at the university there. He conducted and adjudicated at various musical festivals. His compositions include a Hebridean symphony The Scal Woman, an opera Omar Khayyam, Atalanta in Calydon, The Song of Songs, The Burdon of Babylon, Pilgrim's Progress, incidental music to Macbeth, Five Choral Songs and Dances, and Prometheus Unbound. He was Dances and Prometheus Unbound knighted in 1930

Bantry Market town of Co Cork, Irish Free State It is 58 m from Cork City and has a station on the Gt Southern Rlys Its position at the head of Bantry Bay makes it a good centre for tourists, fishermen

and others Pop 3120

Bantry Bay Opening of the Atlantic on the south west coast of Ireland It is 25 m long and in it are Bere and Whiddy Islands There was an aircraft station on the latter during the Great War At the head of the bay is Glengariff

In Bantry Bay on Aug 1, 1689, a battle was fought between the English and French fleets

Bantu Negro peoples of Southern Africa All belong to the same racial and linguistic stock. The original home of the Bantu seems to have been northern or equatorial Africa whence they spread southward during historic times, conquering and supplanting the aboriginal inhabitants of whom the Bushmen and the Hottentots are the remnants The Bantu tongue, though it has many dialectal variations, is the native speech of all Africa south of the equator

Banville Théodore Faullain de French poet novellst and dramatist.

He was born in 1823 and his first work was a

volume of poems entitled Les Caryatides (1842) which was followed in 1846 by Les Stalactites, and in 1857 by Odes Funambulesques which estab lished his position as a poet. A second series of these appeared ten years later and after the Franco Prussian War, Idylles Prussiannes Among his dramatic works is Gringoire, better known in England under the title of The Balladmonger He died in Paris, March 12, 1891

Banyan Large tree that grows in the E Indies It sends out branches of enormous length from which shoots grow downwards and so form supports for the tree They thicken until they resemble trunks and

They thicken until they resemble trunks and by their aid the tree is able to spread over a great extent of ground Some of these trees can shelter thousands of persons and they are so called because the banyans, or Hindu merchants, used them as market places Baobab Tree of the order sterculiaceae It is found chiefly in Africa, but also in the East Indies and South America Its trunk is often 30 ft in diameter The natives use the bark for making ropes and clothing, and the leaves, when made into a powder, as a condiment They eat the fruit, which is called sour gourd and monkey bread, and make a medicine of its juice. It has been used for a medicine of its juice. It has been used for the manufacture of paper

Bapaume Town of France, About 16 it figured prominently both in the Franco Prussian and the World War In the former it was the scene of a bloody but indecisive battle in which the French claimed the advantage In the lattle of the it was an important position in the battle of the Somme, and still more in the battle of Bapaume Peronne, which followed immediately upon the Battle of Amiens (Aug 8 21, 1918) After the World War Bapaume was adopted by Sheffield Pop 4000

Baptism sacramental rite of initiation into membership of the Christian

Church It consists of a symbolic purification by water It is performed by total immersion, or by sprinkling or pouring water on the head In most churches it is bestowed upon infants, but the Baptists only confer it upon adults

They practise complete immorsion

Baptistery Part of a church which is used for baptisms Usually it is the end or part of the building where the font is placed, but in some cases a separate building has been erected In Italy there are some magnificent baptisteries, notably the one at Florence with its famous bronze doors and one at Pisa. In England there is a detached baptistery at Cranbrook.

Baptistery at Cranbrook.

Baptists Denomination of Protestants. They reject the practice of infant baptism on the ground that initiation into the fellowship of Christians should be confined to those who make a profession of Christian belief, of which infants are incapable, and hold that the only mode of baptism authorised by Scripture is immersion Their denominational organisation is similar to that of the Congregationalists

of the Congregationalists

In Great Britain the Baptists arose in the 17th century and now form a considerable body In the United States, where they have four ished since 1630, they form the largest evangelical denomination after the Methodists Like most evangelical bodies they have from time to time split into various sects, the best known division believe heartened by Arminlan and split into various secus, the best known division being between the General (or Arminian) and the Particular (or Calvinistic) Baptists but in the 19th century these came together again In Great Britain the Baptists have 4238 chapels 1925 ministers and 890,000 members In addition there are 600 churches and about 20,000 members of the Strict Baptists, who do not admit members of other churches to the communion Most Baptist churches belong to the Baptist Union founded in 1813 The offices are in 4 Southampton Row, London, WC1 The Baptists have a missionary

Bar a shield There may be four of these on any part of the shield or coat of arms. The bar sinister, a mark of illegitimacy, is really the head sinister

In music a bar is used to divide the music into equal parts. It is represented by straight downward lines. Another bar is an obstruction at the mouth of a river. In some rivers navigation is made difficult, if not impossible, by the presence of bars composed of silt driven together by currents.

Bar Word used for the higher branch of the legal profession. It comes from the rail or bar which was used to divide one part of a law court from another. There is a similar bar in the House of Commons. Beyond this only members can pass and to it offenders against the privileges of the House are summoned. In music a bar is used to divide the music

moned

Irish. Canadian and other bars

Barabbas Criminal released by Pilate on the demand of the Jerusalem mob in preference to Jesus name Barabbas Is only a patronymic, and the suggestion has been made that his own name, like his fellow prisoner's, was Jesus (Joshua) Hence the point of the mob's cry, "Not this man but Barabbas," i e not Joshua Bar-Joseph, but Joshua Bar Abbah

Barbados Island of the British West Indies About 80 miles east of St. Vincent, it is 21 miles long, and its greatest breadth is 141 miles Its area is 166 sq miles The soil is fertile and the climate pleasant and remarkably healthy. The main industries are the growing of sucar and cotton industries are the growing of sugar and cotton The capital is Bridgetown The administration is vested in a governor, who is assisted by a nominated executive council and an elective house of assembly Nine tenths of the in-habitants are negroes of a superior type Barbados was annexed to the British crown in

The Barbados gooseberry, which grows in the West Indies, bears fruit very like the ordinary gooseberry. The tree reaches a height

of 15 ft

Barbara Christian saint who lived in the Tradition says that after her conversion she was beheaded at Nicomedia by her father who was then struck by lightning Her feast is Dec 4

Barbarian Term used by the Greeks for all who were not of their race, but especially for the Persians The Romans used it in a like sense, but especially for the Goths, Vandals and others who harassed and devastated their land. To day it refers to people on a low plane of civilisation

Barbarossa Name meaning "red beard" Barbary pirates In the 16th century they plandered towns and vessels and were soon the most feared of all the corsairs of the time Another noted Barbarossa was the emperor

Frederick I

Barbary Old name for a district on the north coast of Africa from Egypt north coast of Airica from Egypt to the Atlantic Inhabited chiefly by Berhers and covered to-day by Tripoli, Tunisia Algeria and Morocco, it is mainly of interest because of its pirates They began operations on a large scale in the 15th century, when the Meditarranear was a great highway of trade Mediterranean was a great highway of trade For three centuries from Algiers, Tunis and other ports, they made piracy a regular business,

other ports, they made piracy a regular business, taking tribute from merchants who paid to be unmolested. Adventurers from England and other countries joined their ranks

In 1801 their raids led to war between the United States and Tripoli and later between the same country and Algeria This ended the payments of tribute to the pirates, who received another blow in 1816 when a British fleet bombarded Algeria and set free many

The whole body of barristers constitute the bar, king's counsel being those who are called within the bar, and we speak of the English, barbecue is a feast where animals are cooked in this way Another barbecue is a floor in the middle and used for drying coffee Another barbecue is a floor raised

BARBIERT

Barbel Freshwater fish It is so called because it has four barbels, or little beards, over its upper jaw Not unlike the carp, it is found in some British rivers, but is rather coarse for food Specimens may be as long as 2 ft and weigh 12 lb In other parts of Europe there is a much larger species of barbel

Barber One who attends to the hair and kings and great men had barbers in very early times, and in the 15th century and thereabouts they ranked as a skilled profession being surgeons and dentists skilled profession being surgeons and dentists as well as barbers. There was a company of barbers in London is 1462, and this became in 1541 the Company of Barber Surgeons. In 1745 barbers were forbidden to act as surgeons and the company was divided. To day barbers, more generally called bairdressers, form a strong trade organisation and have their own trade paper, The Hairdressers' Weekly Journal. The Barbers' Company is one of the livery company of the city of London.

The Barbers' Company is one of the livery companies of the city of London

Barberini Contury there were Barberinis in Florence, but it was not until Maffee Barberini became Pope Urban VIII in 1623 that they became rich and famous Urban made a besther and transphorms condicated. made a brother and two nephows cardinals while another nephew was made a prince while another nephew was made a prince The Barberini Pelace was built in Rome and the library collected In 1722 the last male Barberini died, and his daughter married a Colonna The Barberini Library was sold to the Pope in 1902, and in 1930 Barberini Villa in the Alban Hills, was presented to him

Barberry Shrub found in hedges in Britain, also in other parts of Europe and in the eastern states of the U.S.A. It grows to a height of 5 or 6 ft, bears small yello v flowers and red berries The bark is useful in dyeing

Barberton Town of the Transvaal It where gold is mined, 283 m by railway from Pretoria Pop 1900

Pretoria Pop 1900

Barbette Platform in a fort from which guns fire over a parapet. It is more generally used, however, for the circular armour that protects the big guns in a battle-ship The barbette differs from the turret inasmuch as it does not swing round with the guns Barbettes were first used in British warships in 1876, and in those built until 1892

Barbican Fortification, usually circular, that defended the entrance to a castle or sometimes an outpost connected with a town or castle Barbicans can be seen to day at the castles of Alnwick and Warwick, while at Carcassonne there is a remarkably fine one The name is retained by streets in London, Plymouth and elsewhere

payments of tribute to the pirates, who received another blow in 1816 when a British fleet bombarded Algiers and set free many prisoners

The Barbary ape is a tailless monkey found in Tunis and Morocco and also at Gibraltar

Barbecue Name given to a sheep or an ox when roasted whole, as is sometimes done on days of festivity It was originally the framework that was placed above the fire in order to hold the

BARING

Barbizon French village, famous for its 5 m from Fontainebleau, on the edge of the forest, it is a most attractive spot. About 1840 some French painters settled here, working on a common idea—nature as it appeared to them, freedom from the conventional ideas that prevailed The chief members of the group were Corot, Millet and Theodore Routseau

Barbour John Scottish poet Born in 1316, his chief work is The Bruce, an herolo poem on the life and adventures of King Robert the Bruce, and his lieutepant, the good Sir James Douglas Several other early examples of Scots literature have been attributed to him He was an ecclesiastic, and for some time held the position of Archdeacon of Aberdeen, but later chared the service of the Crown and became a high official of the Scottish Exchequer Barbour who died in 1395, may be described as the father of Scottish literature

Barcelona City and seaport of Spain, on the north cast coast, 430 m from Madrid, and the second largest city in the land There is a fine Gothic cathedral, 430 m from manner, city in the land There is a fine Gothic catneurar, museums and libraries, a university and a broadcasting station Barcelona has many manufactures and around the old town are industrial suburbs. There is a large shipping trade for which there is a commodious harbour Pop (1931) 991,262

Another Barcelona is a town in Venezuela

Another Barcelona is a town in Venezuela

Barclay Scottish family It is chiefly famous for its connection with banking and brewing Like many other bankers, the first banking Barclays were Quakers In 1736 James Barclay, a son of David Barclay, a linen merchant in Cheapside, London' joined his relatives, the Freames, in a banking business carried on in Lombard Street at the sign of the Spread Black Eagle Later, Barclay became the chief proprietor, and in the 19th century the firm was known as Barclay, Bevan, Tritton & Co Other banks were absorbed by it, as the era of amalgamations came on, one of these being the famous bank of Gurney & Co of Norwich In 1896 bank of Gurney & Co of Norwich In 1896 it became a limited company, in 1917 it was renamed Barclay's Bank, and it is now one of the "big five' Another Barclay helped to found the brewing firm of Berclay Perkins

Bard Poet or singer, especially a Celtic poet or singer Many of them were kept in the homes of kings and chieftains to sing in the homes of kings and chieftains to sing about their exploits, and the calling was at one time hereditary. They were especially prominent in Ireland and Wales, but were also kept in Scotland. In Ireland they existed as late as the 16th century. In Wales the Druids supplied many bards, but there were others. The tradition is kept alive to day by the election of heads at the listed day. of bards at the Eisteddfods

Bardsey Small island off the coast of Caernaryonshire, A Wales With an area of about 400 acres, it has a lighthouse and a harbour It is associated by tradition with the old Welsh bards.

Barebone English politician A leather soller in Fleet Street and a preacher Called Praise God Barebone, he was elected for the City of London to the Parliament that met in 1653, and although he took little part in its business it was called after him. It consisted of 139 members and set ofter him It consisted of 139 members and sat from July to Dec, 1653, when Cromwell

dissolved it Barebone tried hard to prevent the return of Charles II For this he was imprisoned, but he was soon released died in Jan, 1680

Bareilly City of the United Provinces, India It is 150 m from Lucknow and about the same from Delhi, and is an important railway junction, a busy city with some manufactures, the chief town of a district and division Pop (1931), 144,031

Barents Willem Dutch explorer Three times he tried to find the north-

west passage, but in vain The third time (1596) his vessel was caught in the Arctic ice and he died in 1597 while trying to reach Lapland In 1871 a Norwegian sallor found traces of his winter quarters there, and 4 years later part of his journal The northern part of Novala Zemblia is named Barents Land Barents Sea is a part of the Arctic Ocean An island near Spitzbergen also bears his name

Barfleur French seaport It is 15 m. Cotentin Peninsula and was a prosperous seaport in the Middle Ages From here in 1120 the White Ship that carried Prince William salled on its fatal voyage To the north is Capte Barfleur off which, May 19 1692, was fought a naval battle between the English and the French It was an English victory, and on this account several English battleships have been named Barfleur

Barge Board Sloping board which in timber houses was placed at the gable ends or over windows so as to mask the horizontal roof timbers and protect them from the weather They were often elaborately ornamented and were much in vogue in the architecture of the Middle Ages The correct name is verge board

Barham Lord British seaman Charles Middleton was born at Leith in 1726 and entered the navy He did good service for several years in West Indian waters in the convoy and protection of trade He was comptroller of the navy from 1778 to 1790, and was elected MP for Rochester in 1784 For a short time (1794 95) he was a Junion Lord of the Admiralty In 1805 he was ap pointed First Lord of the Admiralty and was raised to the peerage Barham died June 17, 1813, and his barony passed by special remainder to his daughter who married into the family of Noel, afterwards earls of Gains-Lord British seaman family of Noel, afterwards earls of Gains-borough

Barham Richard Harris Author of The Ingoldsby Legends He was born at Canterbury, Dec 6, 1788 educated at St Paul's and Brasenose College, Oxford took orders in 1813, and was presented to the living of Snargate, Romney Marsh In 1821 he was appointed a minor canon of St. Paul s, and some years later became Vicar of St. Mary Magdalene and St. Gregory Cardar, and Priest in Ordinary to the Chapels Royal From time to time he made various attempts in literature to time he made various attempts in literature but without success until 1837, when Bentley, the publisher, an old friend, asked him to contribute to his Miscellany of which Dickens was editor Barham accordingly began to contribute, under the name of Thomas Ingoldsby, the tales in delightfully comic verse which have made his name famous. The Jackdaw of Rheims is regarded as the masterpiece of the Ingoldsby series He died June 17, 1845

Baring Maurice English author and Born in London April 24, 1874 and educated at Eton and

Cambridge, he served in the Diplomatio Sorvice, 1898-1904, and then became a journalist and war correspondent, and was on the staff of the R FC during the War His works include The Russian People (1911), Dumuntave Dramas (1911), R FC HQ 1914-18 (1920), Cat's Cradle (1925), Daphne Adeane (1926), and Coat unthout Scam (1929)

One of the metallic elements Barium One of the metalic elements to the pure state, but only in combinations as barium state, but biny in combinations as parting sulphate, or barium carbonate or witherite It is prepared by electrolysis of the fused chloride. The compounds of barium are poisonous. Its chemical symbol is Ba, its atomic weight 137 37, and atomic number 56. The name is from a Greek word meaning heavy. The salts are used for various purposes Barium chromate and barium sulphate are used as pigments, barium hydride is used in sugar refining, and barium nitrate is used to make blasting powder

Bark Outer covering of the trunks and branches of trees Some varieties are very useful for tanning and as a source of drugs The hark used by tanners is from the oak, willow and other trees that contain tannic Oak bark is also used as a mordant in certain dyes. The bark of the cinchona yields quinine, while from other barks eucalyptus, quonia, salicin and other drugs are obtained Angostura, myrrh, cascarn, cassia and other substances are also bark products. The value of cinchona, or Peruvian bark, was discovered to the control of the by the Indians and handed on to the Jesuits, who introduced it into Europe about 1640 Bark cloth is a fabric made from the inner bark of several plants and used for clothing, matting, etc.

Barker Sir Herbert. English manipula-port, April 21, 1869, he was under the tuition of Mr J Atkinson, whose practice he took over in 1904. He has cured thousands of joint in 1904 He has cured thousands of joint abnormalities and flat-foot, but has never been officially recognised by the medical profession. He was knighted in 1922 for his services in the War.

Barker Thomas English artist. Born in S Wales he moved to Bath and began his career by copying the Old Masters Some of his pictures are in the National Gallery, London, and at S. Kensington, and his designs have been used for pottery and textiles He died in Bath, Dec. 11, 1847 His son, Thomas Jones Barker (1815 82), painted the meeting of Wellington and Blücher, so often seen as an engraving and other

so often seen as an engraving, and other

military scenes

Barking Borough and market town of the Roding with the Thames, 9 m from London. It can be reached by the LMS, LNE and District Rivs It is now mainly an industrial area, which includes the works of the London Gas Light and Coke Co, and the seware works of the London porthern the sewage works of the London northern outfall at Barking Creek Here, too, are works for generating electricity, greatly enlarged in 1931-32 Pop (1931) 51,277

Barley (Hordeum sativum) Cereal, pro-bably the first to be cultivated by man A wild species (H spontaneum) is found in Western Asia Three sub species of cultivated barley are distinguished, viz, the two-rowed (H distinguished, viz, the two-rowed (H distinguished, viz), the best for malting, the six-rowed (H hexastichon), which is not much cultivated in Great Britain | Barnard George Grey American sculptor.

Barnard George Grey American sculptor.

Barnard Born May, 24 1863, he lived for

owing to the poor quality of the grain, and the four-rowed (*H vulgare*), commonly known as here or bigg, which was formerly much used for malting, but has now been generally superseded by the two-rowed sub-species Barley is the most hardy of the cereals, and at one time was largely used for breadmaking, but it is now cultivated mainly for use in brewing and distilling and in domestic cookery. It yields about 35 or 40 bushels to the acre. It yields about 35 or 40 bushels to the acre, and the world production is about 180 million quarters, a quarter being 400 lb The British Isles produce (1932) about 5,400,000 quarters and Canada 11,000,000 Barlev imported from foreign countries into Great Britain must pay a duty of 10 per cent.

Barleycorn John Name given to the ment it is used for making malt liquor It is also used to denote the malt liquor itself, as in the poem "John Barleycorn," by Robert Burge, Barleycorn is also a magazine chart Barleycorn is also a measure, about one-third of an inch

Barmecides (i.e., sons of Bermek). to great influence under the Abbasid callphs of Bagdad One was the celebrated Jaafar, the intimate companion of Haroun Al Raschid It is from the legend of him told in the Arabian Nights ("The Story of the Barber's Sixth Brother") that the proverbial expression, Barmecide feast, applied to any benefit that is purely illusory, is derived

Barmouth Watering place and urban district of Merionethshire It stands on the estuary of the Mawddach amid some of the finest scenery in Wales It is 234 m from London, on the GW Rly. Pop (1931) 2491

Barnabas (son of consolation) Surname of Joses, a Cypriot Levite He is first mentioned (Acts iv-36) as one of the earliest adherents of the primitive church in Jerusalem It was Barnabas who was sent out by the church to investigate the reports of the spread of Christianity in Asia Minor, and who brought Paul from Tarsus to Jerusalem

Barnacle Term applied generally to members of the crustacean order Cirripedia, and in particular to the true or ship barnacle (lepas) and the common acorn shell (balanus) The former consists of a fleshy stalk and five calcareous shells enclosing six pairs of appendages (called cirri) The animal attaches itself to floating wood by means of the stalk, and the function of the cirri is to separate from the water the minute particles which form its food

Barnacle Goose (brantaleucopsis) summer it is seldom found outside the Arctic circle, but in winter is found in large flocks on the western where of the Delton Indiana. the western shores of the British Isles and other parts of the temperate zone

Barnard Edward Emerson American Barnard astronomer Born at Noelville, Tennessee, Dec 16, 1857, he studied astronomy and was given charge of the observatory at Vanderbilt University, Nashville, where he was educated In 1887 he was made an was educated in 1887 he was made an assistant at Lick, and in 1895 became Professor of Astronomy in the University of Chicago and director of the Yerkes Observatory He died Feb 7, 1923 Barnard's discoveries included one of Jupiter's satellites

some years in Paris, where he studied art and began his work This soon made him known in his own country, to which he returned about 1895 His bronze statue of Lincoin at Cincinnatti was severely criticised, but all admit the excellence of the Great God Pan" in Central Park, New York, 'Let there be Light," and other pieces

Barnard Castle Market town and Durham Situated on the Tees, 15 m from Darlington, it is principally an agricultural centre but has some manufactures It is served by the LNE Rly The castle from which the town takes its name is now a ruin, it was the scene of Sir Walter Scott's Rokeby The Bowes Museum has a fine collection of china and tapestry Pop (1931) 3883

Barnardo Thomas John Irish philanthropist A native of Dublin twork in the Dublin slums, and in 1866 began the study of medicine at the London Hospital with a view to qualifying as a medical mis sionary In 1870 he founded in Stepney the celebrated Barnardo homes He died Sept.

19 1905

The Homes are at 18 26 Stepney Causeway, London, E 1, and there are auxiliary homes in the country The average number of children in residence is nearly 8000 and altogether over 100,000 have passed through Many of the boys are trained and then sent to Canada

Barn Dance Popular dance It is persons to a tune not unlike a Scottish air. It was introduced into London at the Galety Theatre about 1890, the name coming from the USA

Barnby Sir Joseph English musician Born at York, Aug 12, 1838, he received his musical education at the Royal Academy of Music, London He was appointed organist of St. Andrew's, Wells Street, London, in 1862, and two years later founded Barnby's Choir, which he continued to direct until 1871, when he became conductor of the Albert Hall Choral Society In 1875 he was appointed precentor and director of music at Eton College and principal of the Gulidhall School of Music in 1892 in which year also he was knighted A popular composer of hymn tunes and part songs, he died Jan 28, 1896

Barnes bongs, he died said 26, 1888

Barnes Urban district of Surrey It is 7 m from London by the S Riy Here are the grounds of the Ranelagh Club once those of the manor house of Barn Elms Barnes Common is an open space The river makes here a bend northwards and the district in the loop is called Castelnau Pop (1931) 42,439

Barnes Ernest William English prelate
1874, he was educated at King Edward's
School, Birmingham, and Trinity College,
Cambridge, and was for some years a fellow and
tutor of Trinity Having made numerous im
portant contributions to mathematical and
physical research, in 1909 he was elected F R S
in 1902 he was ordained, but held no pastoral
office until 1915 when he was appointed Master
of the Temple In 1918 he became a canon of
Westminster and in 1924 Bishop of Birming
ham Dr Barnes is the recognised leader of
the Modernist school in the Church of England,
and has devoted himself to the task of re
stating the essentials of the Christian faith
in the light of modern science

Barries George Nicoll British politician some years as an engineer. He was appointed assistant secretary of the Amalgamated Society of Engineers in 1892 and general secretary in 1896. In 1906 he was returned to Parliament as Labour member for the Blackfriars (now Gorbals) division of Glasgow On the formation of Mr Lloyd George's administration at the end of 1916 he tool. office as Minister of Pensions, and in the following year was included in the War Cabinet. In 1919 he relinquished his department, but remained in the Cabinet as minister without portfolio. He retired from political life in 1922, since when he has devoted himself to League of Nations work.

Barnes William Dorsetshire poet He was was born at Rusbay in the vale of Blackmoor, Feb 12, 1800 He started life as a solicitor's clerk and afterwards became a schoolmaster In middle life he took orders in the Church of England and after holding a curacy in Whitcombe became Rector of Winterbourne Came, near Dorchester, where he remained for the rest of his life He published in 1844 Poems of Rural Life in the Dorset Dialect and two more volumes in 1857 and 1863 A combined edition of his poems was published in 1879 Barnes died Oct. 7 1886

Barnet Residential area of Hertford shire and Middlesex, consisting of three urban districts The most southerly of these is Friern Barnet, so called because the manor formerly belonged to the Friary of S John of Jerusalem, with a population (1931) of 23,081 Next is East Barnet. Pop (1931) 18, 542 The most northerly is Chipping or High Barnet, an old market town which has a famous horse fair every Sept. Pop (1931) 14,721 All are served by the LNE Rly, and High Barnet also by the LNE Rly, and High Barnet also by the

In the Wars of the Roses High Barnet was the scene of the battle of Barnet in which Edward of York (Edward IV) routed the Lancastrians and gained the throne It was fought April 14, 1471

Barnett Samuel Augustus English Clergyman He was born at College, Oxford, where he took orders In 1872 he was appointed Vicar of S Judes Whitechapel and, alded by his wife (Henrietta Octavia Rowland), he began a remarkable system of social and educational work in the east-end of London He early enlisted the interest and co operation of Arnold Toynbee (9v) and other helpers, chiefly from Oxford, which resulted in 1884 in the foundation of Toynbee Hall of which he was first warden He was appointed a canon of Westminster in 1906, and he died June 17, 1913 Barnett House, at Oxford, was founded in his memory His Life was written by his wife, who, for her services, was created a DBE

Barnoldswick Urban district of Yorkshire (WR.) It is 71 m south west of Skipton, on the Leeds and Liverpool Canal It has limestone quarries and cotton factories Pop (1931) 11,915

Barnsley County borough of Yorkshire (WR), It is 15 m north of Sheffield on the river Dearne is served by the LMS and LNE Riye, and is on the Leeds and Liverpool Canal Barnsley lies in an important coalfield, and has numerous manu-

123

factures, including iron and steel, leather goods, linen and paper Pop (1931) 71,522

Barnstaple Borough, seaport and market town of Devon It stands on the estuary of the Taw, 40 m from Exeter and 187 from London, and is served by the GW and S Rlys Features of the town are Queen Anne's Walk, the Pannier Market and Butchers' Row, while the bridge across the estuary is notable for its length The town has some shipping and several manufactures, including the making of Barum ware, Barum being its old name Pop (1931) 14,693

Barnum Phineas Taylor American showman He was born July 5, 1810, in Connecticut In 1844 he exhibited General Tom Thumb, and this was the first of his successes In 1871 he began to make the collection of animals and freaks that, called the Greatest Show on Earth, a combination of circus and menagerie, was known everwhere as Barnum's He died at Bridgport, Connecticut, April 7 1891

Baroda Native state of India Withiu sists of four territories under British protection The total area is 8135 sq m, and the population, 2,126,522 The capital is also called Baroda. The ruler or Gaekwar celebrated the

Baroda. The ruler or Gackwar celebrated the

fiftieth anniversary of his accession, Jan, 1936
Barometer (Gr baros, weight, medron, a measure) Instrument for measuring atmospheric pressure It was invented in 1643 by Torricelli, a pupil of Galileo In its simplest form it consists of a glass tube closed at the upper end and filled with mercury The lower end is plunged into a cistern of mercury, and the height assumed by the mercury column is dependent upon the atmospheric pressure on the surface of the cistern thus falling mercury means falling pressure and probable rain

and propagie rain

The aneroid barometer, a form which is convenient for certain purposes (such as the estimation of relative heights by airmen and mountaineers) consists of a "vacuum box" of thin corrugated metal, the sides of which respond to changes of atmospheric pressure A system of layers links up the box with an A system of levers links up the box with an indicating needle or, in the barograph, with an automatic recording apparatus

Title of honour Originally it was Baron a title applicable to all the vassals of rulers, bishops and lords, the bishops of Durham, for instance, had their barons Later the term was restricted to the greater barons who in England alone had the right to receive a writ of summons to Parliament

To-day baron is the lowest of the five ranks in the peerage of the United Kingdom New barons are created of letters patent, which states how the title shall descend In the case of the older baronies, those created by writ, it descends to daughters equally if there is no son. The coronet of a baronet has on it six silver balls, and he is addressed as my lord His children are entitled to the prefix honourable The number of barons is about 440, and there are a few baronesses in their own right.

Baronet Holder of an hereditary title He is called Sir and to distinguish him from a knight the abbreviation Bart or Bt is placed after the name. He is always addressed by his Christian name with

were first created, and were called baronets of Nova Scotia To day all baronets created are baronets of the United Kingdom They take precedence of all knights except Knights of the Garter The badge of the order is the bloody hand of Ulster, as the first baronets were created in order to obtain money to help to sottle persons in Ulster To-day there are about 1200 baronets, the senior being Sir H Bacon In 1930 a new badge was prepared for them

Baronscourt Irlsh seat of the Duke of Abercorn In Co Tyrone 3 m from Newton Stewart, it is a fine modern house standing in beautiful grounds

Baron's Court is a district in London between Hammersmith and Earl's Court. It has a

Baroque Term now used to describe tinguished by extravagant ornamentation. More particularly it refers to the decadent style that flourished in Italy from the 16th to the 18th century.

Barotse Land Formerly a kingdom of a native reserve It is in the Upper Zambesi territory of NW Rhodesia, and became a British Protectorate in 1916, by the wish of the native King Lawanika, who was succeeded by his son, Yeta III The capital is Lialui but the chief station and British Lialul, but the chief station and British residency is at Mongu The district is well-watered, and the natives are adaptable and hard-working

Barracks Buildings for soldiers and marines Great advances have been made in British barrack construction, elaborate provision being made for the health, comfort and recreation of the men The newer barracks have been built on the light-construction principle, which substitutes for the old substantial buildings one storey buildings of steel and light brickwork Barrack buildings include, in addition to accommodation for the rank and file, the officers' mess, the sergeants' mess, recreation rooms, and separate quarters for men "married on the strength"

Barracuda Name of several fishes resembling a pike The great barracuda found in the West Indies is sometimes 6 ft long and as ferocious as a shark Those found in the Pacific and Indian Oceans are smaller and less savage This fish is eaten in Australia, S. America and S. Africa

Barrage Volume of artillery fire directed on a definite area A creeping barrage is a volume of fire intended to protect advancing troops It must be carefully timed and aimed so as to fall in front of them and to move forward at the same rate It is also called curtain fire These barrages were much used during the World War, the first occasion being during the battle of the Somme Another form used in the war was one fired behind the enemy in order to cut off reinforcements or supplies

Barrage has an older but allied meaning It is used for a bar made in a river to increase the depth of water, eg, the Nile barrages

Barras Paul François Jean Nicolas, Comte de French soldier and statesman Born, June 30, 1755, he came into prominence early in the Revolution when he identified himself with the Jacobin faction As commander of the Republican forces at the steps of Taylor he was the first to province the Sir prefixed The first baronet was made in mander of the Republican forces at the slege 1611 by James I Irish baronets were first of Toulon, he was the first to recognise the created in 1619 In 1625 baronets of Scotland merit of Napoleon Bonaparte, then a lieutenant

of artillery He helped to organise the coup detat of 9 Thermidor, 1794 by which Robe spierre was overthrown He was appointed chief of the Directory Government, but it was overthrown in 1799 by Bonaparte on his return from Egypt For the rest of his life Barras lived in retirement He died Jan 29, 1829

Barrel Legal measure of capacity for all and beer It is equal to two kilderkins, or 36 gallons It is also used conventionally in certain trades as a dry measure of weight varying according to the commodity Thus a barrel of beef equals 200 lbs, a barrel of butter equals 224 lbs, a barrel of flour equals 196 and 228 lbs, a barrel of gunpowder equals 100 lbs a barrel of raisins equals 112 lbs, and a barrel of soft soap equals 2.56 lbs

Barres Maurice French scholar and 17, 1862 at Charmes (Vosges), studied law in Paris, but soon gravitated to journalism and literature His first important work was Sous Yoeil des Barbares (1888) which he followed up with Un Homme Libre (1889) and Le Jardin de Bérénice (1891) In 1897 he published Les Déra inés the first volume of a trilogy entitled Le Roman de l'Enegrei Nationale In 1906 he was elected to the Academy During the World War he wrote La Grande Plité des Eglises Françaises (1914), L'Ame Française de la Guerre (1915) and other works. He died Dec 4 1923

Barrett Wilson English actor and dramatist. Born, Feb 18, 1846, Yorkshire, he came to London in 1879 as manager of the Court Theatre, where his most notable achievement was to bring Modjeska before an English audience in a version of La Dame aux Camdias In 1881 he began his long connection with the Princess's Theatre, where he produced The Lights of London, The Silver King, Roman's Rye and other plays which established his reputation as a romantic actor and dramatist. His Hamlet (1884) was more a ropular than an artistic success He toured the United States four times His later notable productions included dramatisations of Ben my Chree and I he Manxman, and a religious drama with an early Christian setting The Sign of the Cross, which ran for over 500 nights He died July 22 1904

Barrhead Burgh of Rentrewshire It is on the River Loven 9 m

Barrhead Burgh of Rentrewshire It is on the River Loven 9 m to 1 m the River Loven 9 m to 1 m

Barrie dramatist, novelist, and essayist He was born at Kirriemuir in Forfarshire (Angus) May 9 1860 and after graduating in the faculty of arts at Ldinburgh University, worked for some time as a leader writer on The Notingham Journal Moving to London, the attracted attention by the charming sketches of Scottish country life which he contributed to the St James Gazette The British Weekly, and other journals These were published in book form as Auld Lecht Idylls (1888) and at 18 indow in Thrums (1889), which established him as a popular author After two volumes of essays My Lady Nicotine and When a Mans Single he published in 1891 a Scottish novel The Little Munster, afterwards successibility formantised. Sentmental Tommy (1896)

and its sequel Tommy and Grizel (1900) con solidated his reputation

But all his successes as a novelist were destined to be eclipsed by his dramatic achieve ments Ho had already written a farce, Walker, London (1892), produced successfully by J L Toole, a sentimental comedy The Professor's Love Story (1894) and a problem play The Wedding Guest (1909), which was a comparative fallure but with The Admirable Crichion and Lille Mary he at once created a unique place for himself as a master of whim sical humour His Peter Pan, a play for children has been produced every Christmas season since its first production in 1904 Among his long series of brilliant successes are Pantaloon Alice sit by the Fire, Mary Rose Dear Brutus, What Every Woman Knows, and Shall Is e Join the Lanes I He wrote The Two Shepherds, produced 1936, specially for Elisabeth Bergner Barrie was created a baronet in 1913 and appointed to the Order of Merit in 1922 He was elected rector of St

Barrister Member of the upper, or advocacy, branch of the legal profession in England Barristers have an exclusive right of audience in all the superior outs, including quarter sessions. There how ever if no barristers are in attendance solicitors may plead. They alone are eligible for all paid judicial offices.

In England the right to call persons to the bar is vested in the four Inns of Court, Middle Temple Innor Temple, Lincoln's Inn and Gray's Inn which collectively form a kind of legal university. Those intending to become barristers must join one of these inns, cat dinners there, pass certain examinations. Certain exemptions in these matters are given to university graduates. The fees amount to something over £100, part of this being the stamp duty. Each inn exercises discipline over its members, subject to a right of appeal to the judges. In recent times an elective body the bar council, has been set up to give rulings on professional etiquette, etc. A barrister may not appear in court save on the instructions of a solicitor. They are of two grades, juniors (stuff gownsmen) and king's counsel (silks). As a rule a silk may not appear in any cause without the assistance of a junior.

The term barrister is also used in Ireland, where admission to the profession is regulated by the King's Inn Dublin For Northern Ireland there is a bar in Belfast The term is also used in Canada, Australia and other parts of the British Empire, but there the division between barrister and solicitor is less sharp than in England In Scotland the equivalent is the advocate (q v)

is the advocate (q v )

Barrow (Anglo-Saxon beorh, a hillock)
Ancient burial mound Barrows
are found in many parts of the world, and are
especially numerous in the British Isles
They are generally, but by no means invariably,
round and, broadly speaking the difference
of shape corresponds to a difference of racial
and cultural origin, the round barrows being
the work of a brachycephalic people, while in
the long barrows we usually find dollchoce
phalic skulls

Barrow Sir John. English adminis near Ulverston At the age of 18 he went on a voyage to Greenland in a whaler, and later obtained an appointment as mathematical usher in a school at Greenwich, where, he was introduced to the notice of Lord Macartney He served on Macartney's staff in China and South Africa, and was employed successfully on several important missions In 1804 Henry Dundas (Lord Melville) appointed Barrow second secretary of the Admiralty He was one of the founders of the Royal Geographical Society and took an active part in promoting the Buchan and Franklin Arctic expeditions He died Nov 23, 1848

Barrow-in-Furness County borsaport of Lancashire It stands on Morecambe Bay opposite Walney Island, 265 m from London by the L M S Rly (Vickerstown on Walney Island is part of the borough) A great industrial centre, wholly created in the 19th century when iron was discovered in the neighbourhood, it has iron and steel works, shiphyilding yards and many related industries shipbuilding yards and many related industries Steamers used to go regularly to the Isle of Man, Belfast and elsewhere but they have been discontinued Pop (1931) 66,366

Barry Seaport and urban district of Cardiff and 160 m from London, opposite the Island of Barry in the Bristol Channel Barry Docks, opened in 1889, have accommodation for all but the very largest vessels Another industry is flour milling The town is served by the G W Rly Pop (1931) 38,916

Another Barry is a village in the county of Angus It is 8½ m north east of Dundee, and is chiefly known for its Territorial Force artillery camp

artillery camp

Barry Sir Charles English architect He London, May 13, 1795 and travelled in Italy, Greece and the Near East. He acquired a marked predilection for Italian architecture, which he showed in the various important commissions with which he was entrusted after starting in business in London These included many public buildings in the provinces and the business in London These included many public buildings in the provinces and the reconstruction of the Treasury buildings in Whitehall On the destruction of the Houses Whitehall On the destruction of the Houses of Parliament by fire, Barry was commissioned to design the new buildings, which are the greatest monument of his genius He died, May 12, 1860, a few months before their completion He was elected ARA in 1840 and RA in 1841, and was knighted in 1852

Two of Barry's sons became architects One Edward Middleton Barry (1830-80) completed the Houses of Parliament The eldest son was Alfred Barry (1826-1910) who held

pleted the Houses of Parliament The eldest son was Alfred Barry (1826-1910) who held several high positions in the church including the Bishopple of Sender 1989. the Bishopric of Sydney, 1884-89 His fourth son was Sir John Wolfe-Barry, (1836-1918)

the famous engineer

Barter Primitive method of exchanging commodities, ie, direct exchange without the intervention of any form of currency True barter is found only in the very simplest communities. At an early stage a community begins to select some article of value as a standard, e.g., pelts or cattle This gives their transactions the appearance of barter, though they are really primitive currency transactions

Bartholdi Frédéric Auguste French sculptor Born in 1834 in Alsace he studied art and exhibited first in 1855 His best work is the statue of Liberty at the entrance to New York harbour His "Lafayette" is in New York and his works include "The Lion of Belfort" and others of a patriotic nature He died Oct. 4, 1904

Bartholomew Saint, apostle and One of the twelve apostles first called by Jesus Christ, he was possibly the same as Nathanael "the Israelite without guile" He is said to have evangelised Armenia and India, but the Bartholomew Saint, apostle tradition has no historic basis

Bartholomew Fair Old London clipally for cloth goods It was founded early in the 12th century and continued to be held annually at Smithfield until 1840 and then at Islington Of ecclesiastical origin, it was in its earlier days an occasion for the performance of miracle plays and mysteries, and after the Reformation shows of all sorts made it a great attraction to the London populace The disorders of the rabble who resorted to it led to its abolition as a nuisance in 1855

Barthou Jean Louis Firmin French politician and writer Born Aug 25, 1862, he became a lawver In 1889 Aug 25, 1862, he became a lawver In 1889 he entered the chamber of deputies and in 1894 was made Minister of Public Works Ho was Prime Minister for nearly a year in 1913 During the Great War he was a member of Painlevé's cabinet and in 1918 Minister for War, later becoming president of the Reparations Commission In 1922-24 and 1926-29 he was vice-president of the cabinet under Poincase then under Briand His writings. Poincaré, then under Briand His writings secured his election to the Academy in 1919 He was assassinated at Marseilles Oct. 1934

Bartoli Taddeo Italian artist Born at Siena in 1363, he painted frescoes depicting the life of the Virgin in the Cathedral of Siena, at Perugia and Genoa and in the Catnearai of Siena, at Perugia and Genoa and in the church of S Francis at Pisa Other frescoes are in the museum at Pisa, and the municipal palace at Siena In the Louvre is one of his earliest works, "The Virgin among the Saints," painted in 1390 He died in 1422

Bartolommeo Fra. Italian painter he became a Dominican monk, hence the epithet Fra He was friendly with Savonarola and lived in the convent of S Mark Later he lived in Rome and worked with Raphael, but he was again in Florence when he died Oct 31, 1517 His paintings include one of S Mark in the Pitti Palace, Florence

Bartolozzi Francesco Bartolozzi Francesco Italian en graver The son of a Florentine goldsmith, he was born about 1727, and for some time worked under his father He studied painting at Florence and engraving at Venice, and, after a short time in Rome, migrated to London in 1764 He lived in London for nearly 40 years, producing a very large number of engravings chiefly from Italian masters In 1802 he was appointed director of the National Gallery at Lisbon where he remained until his death, March 7 Italian

Barton Parish of the Isle of Wight It is of interest to geologists because it gives its name to the formation called Barton Beds These are noted for the fossils that are found therein, these being remains of plants and fishes which can only live in a collected warmer than climate warmer than the one now prevailing in England. The beds are about 300 ft thick and are also found at Alum Bay, Isle of Wight

Barton Elizabeth. English fanatic, called the Maid of Kent. She was in domestic service at Aldington, Kent, and in her nineteenth year, while recovering from an

illness, went into trances and began to pro phesy She was admitted as a nun to the convent of S Sepulchre, Canterbury, where her utterances became still bolder and more remarkable She denounced Henry VIII for livorcing Catherine of Aragon, and this led to aer being interrogated before Cranmer, when she confessed that her trances were fraudulent Along with several monks who had been associated with her, she was arrested and executed at Tyburn, April 20, 1534

Sir Edmund Australian politician Barton Sir Edmund Australian politician he had a brilliant career at the university of No near the infinite career at the university of Sydney. He then practised at the New South Wales bar and in 1889 became a QC In 1879 he entered the state legislature. He was Speaker of the Assembly from 1883 to 1887, and Attorney General in 1889 and in 1891 Always a keen advocate of federation, he was Always a keen advocate of lederation, he was appointed chief of the delegation sent to London in 1900 to promote the establishment of the Australian Commonwealth In the following year he became the first Prime Minister of the Commonwealth, but resigned to become a judge of the high court in 1903 He died Jan 7, 1920

Urban Barton-upon-Humber district of Lincolnshire It is on the Humber, 6 m from Hull, which is on the opposite side of the river, and 172 m from London, on the L N E Rly It is connected by steam ferry with Hull, but it is proposed to make a tunnel beneath the Humber here Pop (1931) 6330

Barton-upon-Irwell District of Lancashire District of On the western outskirts of Manchester, it was here that Brindley constructed the aqueduct to carry the Bridgewater Canal over the Irwell

Baruch

Berwwriter, mentioned in the
book of Jeremiah as the pro
phet's secretary The name appears in the
title of two non-canonical books (1) The
Book of Baruch, a work by more than one
hand, dating from early in the second century
BC It is known only from the Septuagint and
Vulgate, but probably was originally written
in Hebrew (2) The Apocalypse of Baruch
discovered in the Milan library in 1866 The
manuscript dates from the 6th century AD,
and is a Syriac translation from a Greek and is a Syriac translation from a Greek original The Apocalypse of Baruch has close affinities with the 4th Esdras

Baryta Sulphate of barium It is usually found in lead ores and one of its uses is in the making of baryta paper used by photographers This is paper coated with a mixture of sulphate of barium and gelatine Variety of marble Of volcanic origin it is often found in layers, Basalt but sometimes in columns as in the Giant's Causeway and at Staffa In colour it is dark grey or black, and, being very hard and tough, it is suitable for road making

Term used in chemistry Bases are Base Term used in chemistry Bases are substances capable of combining with acids to form salts, usually, in inorganic chemistry, the oxides and hydroxides of metals, and especially of the alkali metals and the alkaline earths They can be distinguished by their power of turning red litmus blue

was drawn up by the Knickerbocker Baseba Club of New York in 1843 and thereafter the popularity of the game spread rapidly all ove the country. It is now played by professions teams which are formed into leagues for the

purpose of competing with one another
The game is played by nine players a sid
on a lozenge shaped field, each point of th
lozenge having a base Near the middle of th field, opposite the home base, is the pitcher place. The pitcher corresponds to the bowle in cricket. The catcher, corresponding to the wicket keeper, stands behind the batsman a the home base. There are fielders at each o the bases (in fielders), the others being known as out fielders. On hitting the ball the batsman must run for the first base and his object is t make a complete circuit without being pu out, which constitutes a run An innings end when three batsmen have been put out, which can be done in several ways The most usua is for the ball to reach a fielder at a bas before the batsman arrives there Players especially the catcher, are heavily protected and substitutes are allowed for injured players Baseball is played regularly in London a Stamford Bridge

City of Switzerland, also called Bâle and Basle It is situated Basel on the Rhine and is an important railway junction for lines to France, Germany and Italy Its university was founded in 1460 The industries include the making of chemical and ribbons and there are large electricity works here In 1929 the city was made the headquarters of the new bank for internations settlements Here a famous church counci met from 1431 to 1449 and here Erasmus lived and was buried Pop (1930) 148,063 Bashan District of Palestine East of the Sea of Gallice it is mentioned in the Old Testament and was famed for its

Bashi Bazouk Irregular mounted infantry of the Turkish army They were maintained and armed by the Government, but received no pay and wore no uniform Their name became notorious during the Bulgarian atrocities of 1876

Bashkir Soviet republic It is in the Ural region and covers 145,386 sq m A member of the union of Soviet Republics, its capital is Ufa The name is that of the Bashkirs, a Finnish people Pop 2 740,000

Name given to several aromatic herbs One is sweet basil which is Basıl grown in Europe and is used in cooking as is the bush or lesser basil The wood of holy basil, called tulni by the Hindus, is used to make prayer beads

Name of two Roman emperors of Basil the East Basil I, founder of the Macedonian dynastry, was a favourite of Michael III, who made him his chamberlain He murdered the emperor's colleague Bardas, Basıl and was raised to his place in A D 806 he murdered Michael and reigned alone He proved a capable and energetic ruler, carried out important legal reforms and resisted the claims of the see of Rome to superiority over Constantinople He died in 886

Heir power of turning red litmus blue

Baseball
National game of the United States Its origin is unknown, but it appears to have been first played system atically about 1840 The first code of rules subjugation of Bulgaria, which, after some

since 976

Saint and father of the Church surnamed the Great A brother of Basii Gregory of Nyasa, he was born in Cappadocia, 329 He studied at Constantinople and at Athens He was ordained in 363, and was chosen Bishop of Caesarea seven years later With his pen and in the pulpit he showed himself the most redoubtable champion of orthodoxy against the Arians, he also did much to improve the liturgy and to reform the monastic life of the Church in the East His most famous work is *De Spiritu Sancto* He died Jan 1, 379, work is De Spiritu Sancto and his feast is Jan 30

Two villages of Berkshire called Upperand Lower They Basildon are on the Thames, 8 m. from Reading

Basilica Architectural term It was applied by the Romans to any large building used as an exchange, law courts, The conventional form was a rectangle at least twice as long as it was broad, the interior having a two storied colonnade running round it There were several basilicas in and about the Roman Forum, the largest being the Basilica Julia At a later date the term was extended to the larger Christian churches, which were similar in form to the civil basilicas Examples of the later forms of Christian basilica are S John Lateran and S Maria Maggiore in Rome

Basilisk Genus of hzard of the Iguanidae and South America and is distinguished by the presence in the male of erective crests on the head, on the back and on the tail

In the 17th century a large brass cannon was

called a basilisk

Originally the word referred to a kind of dragon, a fabulous monster of hideous appearance and great malignity, it was sometimes called a cockatrice

Basingstoke Borough and market town of Hampshire It is 48 m from London and is reached by the S and Gt Western Rlys It is also served by a canal The town was at one time a centre of the western Rlys. the wool trade, but is now control Agricultural centre for agricultural produce Agricultural implements are made Pop (1931), 15,320 imp

Near is the village of Old Basing It contains the ruins of Basing House, which was held by the Marquess of Winchester for Charles I during the Civil War He called it "Loyalty House"

Basket Ball Outdoorgame It was invented in 1891 in Massachusetts It is played by two teams on a space 60 ft by 40 ft, and each team consists of five players Both centres stand in a central ring and the referee tosses the ball over their heads Keeping the ball in constant play and touched by the hands only, each team tries to propel it into the opposing goal which is a net 18 ins wide hung from a metal ring backed by a screen The game is played by men and women, boys and girls, and there are slight variations in the rules when played by women and girls The English variant of the game is called net ball (qv)

Race of unascertained origin It forms the bulk of the popula-Basque tion of the provinces of Biscay, Alava, Guipuzcoa and Navarre in northern Spain and also in parts of the department of Basses

years of sporadic war, was achieved in Pyrénées in France A vigorous race, extremely 1014. He died in Dec., 1025, having reigned independent and conservative, for long they independent and conservative, for long they were allowed by the Spanish crown to retain a large measure of autonomy, and every Basque freeholder was acknowledged to be noble. The Basque folk dances and sports are remarkably interesting

> Town and seaport of Iraq It is Basra situated on the western bank of the Shatt-el-Arab, about 35 m from the Persian Guif, and 270 from Bagdad, and owing to the low-lying ground is subject to inundations The climate is unhealthy. The town is intersected by small tidal canals. The principal exports are dates, for which the Basra vilayet is celebrated, wool, gum and attar of roses. Since the establishment of the kingdom of Iraq, its consequence has revived The British captured it from the Turks in Nov, 1914, and used it as a base for the campaign in Mesopotamia Works were erected for the shipping, etc., and its docks are now equipped in the most modern manner Pop 35,000

> Bass Fish of the perch genus Known to the Romans as lupus, or wolf, from its voracious disposition, it is from 12 to 18 ins in length and frequents the southern coast of England and the eastern shore of A marine fish, some species thrive in fresh water and these acquire a more delicate flavour On the Kentish coast this fish is known as the sea dace

> Musical term It denotes (1) The lower part of the musical system, approximately from middle C to the extreme low limit, (2) The lowest part of any piece of music, (3) The lowest male voice, (4) The lowest pitch of certain classes of instruments, e.g., bass viol, bass drum, etc

> Bass Family that gives its name to a famous beer This is brewed at Burton-on-Trent by Messrs Bass & Co, Ltd, and its excellence is said to be due to the qualities of the water there The first Bass to brew ale at Burton was William Bass, who began business there in 1777 His grandson, Michael Thomas Bass, joined the business later, and under his control it became one of the largest in the world. He took two assistants sater, and under his control it became one of the largest in the world He took two assistants into partnership and called it Bass, Ratcliffe & Gretton. He was MP for Derby from 1848 to 1883 and died at Rangemoor, his seat in Staffordshire, April 29, 1884 His son, Michael Arthur Bass, was made a baronet, and in 1886 a peer, as Baron Burton As he had no sons the title passed, when he died in 1909, to his daughter, the wife of J E Baillie, who became Baroness Burton became Baroness Burton

> Basset Horn Tenor clarinet It is fuller of tone than an ordinary clarinet A transposing instrument in F, its music is written a fifth higher than it is sounded when the treble clef is used, a fourth lower when the bass is used It was used by Mozart and Mendelssohn

> Basset Hound Small dog It has a long body and crooked legs, in colour it is black and white, with tan on the head It is kept chiefly as a pet

> Bassoon Wind instrument It is the bass of the oboe family and in orchestration forms the bass of wind instruments when used together It is played with a double reed connected by a brass crock to a trib. tube nine feet long doubled on itself.

(two sections) in the field artillery, with their complement of officers and men. The commanding officer of a battery ordinarily has the substantive rank of major

Battery Group of machines or appliances It is used in this sense in the electricity, mining, engineering and other electricity, mining, engineering and other industries In electricity a pattery is a col-lection of cells, primary or secondary, used for the production or storage of the power, in

ior the production or storage of the power, in small lighting sets, wireless receivers, etc

In 1932 it was announced that Dr J J
Drumm, of University College, Dublin, had invented a storage battery that makes the storage of power for traction purposes a practical proposition See ACCUMULATOR, CELL.

Battle Market town and urban district of Battle Sussex It is 7 m from Hastings and 51 from London on the S Rly Its most famous building is Battle Abbey The first abbey was founded by Willian the Conqueror after his victory at Senlac, and it was a rich religious house until the dissolution of the monasteries The site is occupied by a modern residence in which some of the abbey ruins have been included. After the Great ruins have been included After the Great war it was sold and became a school for girls In 1930 the building was burned down The town has an agricultural trade Pop (1931) 3490

The Battle Abbey Roll is a list of warriors supposed to have come over to England with William the Conqueror Really it is of later data

Battle Cruiser Large warship which heavily armed, then a battleship Battle cruisers developed from the old armoured cruisers, and the first to be built for the British navy was the Indomitable launched in 1908 Others, including the Lon and Tuger, were built, and these did much fighting during the Great War, and suffered heavy losses at Jutland, including the Queen Mary, Invincible and Indefatigable At present (1932) the British navy has only three battle cruisers the Repulse and Renown of 20,500 tons and 615 in guns, and the Hood, the largest war ship affoat. Completed in 1921, the Hood displaces 41,000 tons and carries 8 15 in guns The Tiger was broken up in 1932

Battleship Ship used for purposes of warfare in practice the word is confined to the largest ships in the These are the successors of the ships of the line which composed the striking force of fleets in the days of Nelson, and also of the triremes of the Greeks and the galleys of the Romans The modern battleahly costing some 26,000 000, is a structure of remarkable strength, size and speed, perhaps the most wonderful piece of mechanism yet devised by

science The first modern battleship dates from about 1862 In 1863 the British Government launched ironclads with turrets and from these the present ships have developed. They became larger, swifter and stronger, carrying more and heavier guns The Royal Sovereign, launched in 1890, was one of a class that prepared the m 1890, was one of a class the prepared the way for the Dreadnoughts. The innovation which is elected by the about these ships was that they were armed only with big guns, except for the small ones used to repel torpedo attacks. They displaced in 1806 the duke was muscular to the successors, carried in 1871 the kingdom joined from Duke class, their successors, carried in guns and displaced 23 600 tons, while was set up See Germany

the Queen Elizabeths carried 15 in guns and displaced 27,000 tons Such were the super dreadnoughts which formed the nucleus of the Grand Fleet in the Great War To day (1935) there are four classes of battleships in the British navy Three of these are the Queen Elizabeths, the new Roya and the are the Queen Elizabeths, the new Roya Sovereigns, also with 8 15 in guns, and the Iron Dukes with 10 13 5 in guns The latte two classes are slightly smaller than the Queen Elizabeths The fourth class consists of the Rodney and the Nelson, completed in 1927 They displace 35,000 tons and carry 9 16 in

Other navies have similar ships, but the Germans have constructed a pocket battle ship of only 10,000 tons, which, it is claimed is equal in power to a super dreadnought. In 1923, by the Treaty of Washington, a life of 20 years was allowed for battleships

Batum Scaport of Georgia, on the Black Sea, 600 m from Baku There is a harbour and facilities for exporting the oil that is brought by rail from Baku li is also linked by rail with Tiflis For long Batum was part of Turkey In 1878 it was given to Russia, and in 1921 was handed over to the new republic of Georgia Pop 46,000

Bauchi Mountainous province of Nor thern Nigeria The area is about 21,000 sq m, and the estimated population about 1,000,000 Hausa is the speech of the province, in which the chief industry is the mining of tin See Nigeria

Baudelaire Charles Pierre French poet He was born in Parls, April 9, 1821 His youth was unsettled and dissipated, and legal proceedings had to be taken by his relatives for the protection of his property In 1857 he published his first and most famous volume of poems, Les Fleurs du Mal, which was highly praised by Victor Hugo and others, but, owing to his choice of subjects, its author was presented for offendier parient. its author was prosecuted for offending against public morality Baudelaire had a good know public morality Baudelaire had a good know ledge of English and made some remarkable translations into French of the works of Edgar Allen Poe, for which he had the greatest admiration He died of general paralysis, Aug 31, 1867 Apart from Les Fleurs du Mal and the Poe translations, his best known work is Petits Poèmes en Prose

Bauxite Mineral The chief ore from which aluminium is obtained. It is used for lining furnaces that are exposed to great heat. The name comes from Les Baux in France, in which country it is chiefly found. Supplies also come from the United States, Hungary and Guiana See ALUMINIUM

Bavaria Republic of Germany In the south of the land, it has an area of 29,334 sq m, and a population of 7,379,590 Munich is the capital and other large cities and towns are Nuremberg, Augs burg, Ludwigshafen, Wurzburg, Regensburg and Furth It consists of eight provinces and the free state of Coburg was united with it in 1910. It is growered by a propular and a subject 1919 It is governed by a premier and a cabinet, who are responsible to a diet, the Landing which is elected by the votes of all adults For many years Bavarla was ruled by dukes,

one of whom was made an Elector in 1623 In 1806 the duke was made a king, and in 1871 the kingdom joined the new German Empire This lasted until 1918 when a republic

Baxter George English artist. Born in where a short dagger called the bayonette value of 1804, he was a son of John made towards the end of the 15th century became a printer, and is known as the inventor of a method of printing in oils He the Adour and the Nive It has a fine certical data.

nethod of printing in oils. He Baxter prints are valued by died in 1867

collectors

Baxter Richard English divine He Nov 12, 1615, in Shropshire In 1638 he became a minister at Bridgnorth, and in 1640 at Kidderminster, but when the civil war began in 1642 he went to Coventry and then became a chaplain in the Parliamentary army In 1649 he returned to Kidderminster where his preaching had an extraordinary influence in reforming the morals of the town. In 1660 Charles II made him one of his chaplains, but he refused a bishopric In 1662 the Act of Uniformity drove him from the Church of England, and for the rest of his days he was a Nonconformist preacher in London and Acton He died Dec 8, 1691
Baxter's fame rests on his book The Saint's
Everlasing Rest He also wrote The Reformed
Pastor and A Call to the Unconverted, and left an Autobiography

Bay Evergreen tree It has lance-shaped toothless leaves, growing alternately on the stems It is the true laurel with which the ancients crowned their heroes Attaining a height of 30 to 60 ft, it is shrub like in growth with numerous small stems. The insignificant yellow flowers are followed by green berries which ripen to a rich purple. The leaves are aromatic and used in cookery

Bayard French knight called the Chevaller, whose name has become proverbial as the perfect type of soldier Born in 1473 he belonged to a noble family of Dauphiné He served under Charles VIII of France in Italy, and was knighted for gallantry at the battle of Fornova, and he continued to distinguish himself throughout the Italian wars on one accession defending a the Italian wars, on one occasion defending a bridge single-handed against 200 Spaniards At the battle of the Spurs (1513), by a display of chivalrous punctille, he became a prisoner of the English, but his bearing so impressed Henry VIII that he was released at once on his paralle not to be a second and the second and t

heary viii that he was released at once on his parole not to bear arms for six weeks Francis I promoted Bayard to high com-mand, which he signally justified by his defence of Mezières against the army of the Emperor Charles V Though his own force consisted of no more than 1000 men, he com-pelled the imperial army, numbering 35,000 to raise the stere. In 1523 he again vent to Italy raise the slege In 1523 he again went to Italy, and was mortally wounded, April 30, 1524, while guarding the French rear in the retreat

across the Sesia

Bayeux Town of Normandy, on the R coast It is an episcopal see and has dyeing and less making the makeup and lace making industries. The museum contains the celebrated Bayeux Tapestry, which gives in needlework 72 scenes illustrative of the Norman Conquest of England According to angle the design of the tapestry was the work to ancient tradition the tapestry was the work of Matilda, wife of William the Conqueror, but it is now generally believed to have been executed to the order of William's brother, Odo, Bishop of Bayeux, for his cathedral Pop (1931), 7530

Bayonet Short dagger-like weapon made to be fitted to the muzzle of a rifle, and thereby converting the rifle into a kind of pike or spear. The name is commonly said to be derived from the town of Bayonne, Beachcombers are usually wastrels who spend

where a short dagger called the bayonette was

131

Bayonne is situated at the confluence of the Adour and the Nive It has a fine cathedral dating from the 13th century Leather and chocolate are manufactured, but the main importance of Bavonne is derived from its commerce Pop (1931), 31,727

Bayou Channel of dead water cut out by natural action from a main river and connecting the main river with another stream Bayous are a feature of the Mississippi region, and Mississippi is known as the bayou state

Bayswater District of London In the metropolitan borough of Paddington, it lies to the west of the city It is north of Kensington Gardens and the Bayswater Road is a main thoroughfare to and from London It is served by the District Rlv

Bazaar (Persian bazar, a market) Permanent market or street of small shops or collection of streets or stalls under one roof The term is in general use in India and is found in the Turkish and Arabic languages A mercantile handbook of 1340 gives bazarra as Genoese for a market place and is the first recorded European use of the word

Bazaine Achille soldier François he served in Africa with the foreign legion as a private soldier, and rapidly rose to the rank of brigadier general He commanded a brigal 13 in the Crimea and was later promoted general of division. He served with great distinction in Lombardy (1859) and Mexico (1862), and in 1863 was appointed marshal and senator On the outbreak of the Franco-Prussian War he was given the command of the third corps of the Rhine Army, and subsequently became acting commander-in-chief of all the French forces After the disaster of Spicheren, he retreated on Metz, where his army was invested by the Germans Macmahon's attempt to relieve Metz was defeated at Sedan, and Bazaine surrendered with 140 000 men He was tried by court martial and sentenced to degradation and death, but the sentence was commuted to exile He escaped to Italy in 1874, whence he went to Madrid He died Sept 23, 1888 he was given the command of the third corps

Bazalgette Sir Joseph William English engineer Born March 28, 1819, he was appointed in 1849 engineer to the London drainage commissioners and continued to hold a similar position under their successors, the Metropolitan Board of Works. He designed the main drainage system of London, which after many delays was begun in 1852 and completed in 1852 and completed in 1853 and completed in 1855 and completed in London, which after many delays was begun in 1858 and completed in 1865. At the same time he carried out the embanking of the Thames. The first section (Westminster to Vauxhall) was built between 1860 and 1869. A second section (Westminster to Blackfriars) was opened in 1870. The Chelsea Embankmont was built 1871-74. The original conception of the Blackwall Tunnel and the Tower Bridge was also due to Bazalgette. Knighted in 1874, he died March 15, 1891.

Bdellium Gum resin that exudes from the balsam tree There are two varieties Indian and African, the Indian smells somewhat like cedar wood.

their time on the beaches ready to pick up anything they can find It also refers to a settler there who gets a living by fishing for pearls.

Beachy Head Prominent headlands on the south coast of England In Sussex just outside Eastbourne it is a chalk cliff where the South Downs run out to meet the sea, and is 533 ft. high

out to meet the sea, and is 733 it. high The battle of Beachy Head was fought June 30 1690 between the English fleet under Lord Torrington who had also some Dutch ships with him and the French fleet The victory lay with the French who outnumbered Tor

ington s flect.

Beacon Signal usually on a hill Such signals often took the form of fires lit on hilltops and consequently some hills are now called beacons for instance, Dunkerry Beacon on Exmoor, and Inkpen Beacon in Berkshire Beacons were used as warnings in very carly times and there are references to them in the Bible and Homer They were litt at the time of the Spanish Armada, but since then have been chiefly used at times of re joicing such as the coronation of King George V in 1911 The development of aviation gave them a new life and they are used to light landing grounds

Beaconsfield Markot town and urban district of Bucking hamshire 21 m from London A residential suburb for Londoners, its associations are chiefly with Burke, who lived here for some time and is buried here, and with Disraeli Pop (1931) 4843

Beaconsfield Town of South Africa lt is 3 m from Kim berley, and the main line from Capetown, 640 m away passes through it Near are diamond mines Like other places in the British Empire it is named after Lord Beaconsfield Another Beaconsfield is in Tasmania. Since 1912 it has been part of the municipality of

Kimberley

Beaconsfield Earl of British states man Born in London, Dec 21 1804 Benjamin Disraeli was the eldest son of Isaac Disraeli and the grandson of another Benjamin Disraeli who had settled in England in 1801 and became naturalised In 1817 the family adopted the Christian faith Benjamin was articled to a solicitor and in 1826 made a name with a novel, Vivian and in 1826 made a name with a novel, Fittian Grey Between 1827 and 1831 he spent a good deal of time in travel In 1832 he tried to enter Parliament as a Radical and in 1835 he stood as a Tory In the interval he wrote a number of books novels satires and pamphlets now mainly forgotten In 1837 he entered Parliament as MP for Maidstone, and in a few years he became the leader of a small group called the Young England Party whose ideas are described in his novels Coningsby, Sybil and Tancred which appeared between 1844 and 1847. He was then M.P. for Shrewsbury while from 1841 78 he represented Buckinghamshire

In 1846 when Peel broke his party over the Corn Laws Disraell became a serious politician He led the Tory opposition to Peel and in 1852 became Chancellor of the Exchequer and Leader of the Commons under Lord Derby He had another short spell of office in 1858 but his political reputation was made by the skill with which he attacked the Liberals when they were in power (1859 66) In 1867 he was

again Chancellor of the Exchequer and was responsible for the Reform Bill of 1887 From Feb to Dec. 1868 he was Prime Minister In 1870 he published Lotharr

Another period of opposition followed, and in 1874 Disraeli again became Premier During the next six years he bought up shares in the Suez Canal made Queen Victoria Empress of India, and attended the Congress of Berlin In 1878 he was made an earl and in 1880 he resigned office as the result of an unfavourable general election He died April 19 1881, in London and was buried at Hughenden his Buckinghamshire home Disraell's wife was the widow of Wyndham Lewis, he married her in 1839 She was made a viscountess in 1868 and died Dec. 15 1872 Primrose Day (April 19) was inaugurated in honour of Beaconsfield His Life has been written by W F Monypenny and G E Buckle. Another Life is by André Maurois this has been translated from French into English In 1878 he was made an earl and in 1880 he

Beadle In England a parish officer was usually appointed by the vestry and acted as messenger attendant, doorkeeper and when necessary in other capacities He also performed duties more proper to the police In Scotland beadle means church officer At the universities the beadle has become a bedel or bedell

Beagle Small hunting dog It is used chiefly for the hunting of hares, and several packs are kept in England for this purpose one being by Eton College They are a miniature breed of foxhound extremely intelligent and keen of scent. There are two varieties, smooth and rough but the only difference is the texture of the coat. Beagle packs are followed on foot

Beak In birds and one or two animals, part of the head The beak is a horny sheath covering the jaw and used for collecting food and sometimes for fighting It varies in the different birds in each case being adapted to the particular need The beak of the kingfisher is long and slender so that it can dig in the mud In eagles and other birds of prey it is usually hooked and can deliver a very powerful blow In some birds it has hairs on it, thus enabling insects to be caught. The turtle possesses a beak and the long sucking mouths of certain insects are called beaks

Beam Plece of wood or metal used in building for purposes of support. Wooden beams are used to support the roofs and railings of houses but in modern commercial structures steel beams or girders take their place. The beam of a ship is her greatest breadth on the water line

A beam of light or sound is a collection of parallel rays, and beams of electro magnetic waves are used with success for long distance wireless transmission. In Great Britain beam services to Australia, S. Africa, Canada and India are worked by the Post Office

Beamish Mining centre of Durham It Type on the L N E Rly

Bean Seed of certain leguminous plants in Great Britain the chief kinds, all used as food are the broad bean, the French or kidney bean and the runner bean, called the scarlet runner All will grow in British gardens and French beans are often forced by being grown under glass In this way it is possible to secure a supply all the year round Other

beans, eg the soya and carob are grown in warmer countries

The bean tree, which grows in Australia, has yellow flowers and seeds like chestnuts. The bean louse and bean weevil are among the bean pests and beans are also attacked by bean mildew

Bear A flesh eating mammal with long, sharp claws, small head and short tail Bears feed on fruit and insects, as well as on flesh, and all except the heaviest can climb trees They can stand upright and having seized an enemy in the fore paws can crush it to death Although very clumsy in appearance they can move rapidly They hibernate during the winter

The commonest variety is the brown bear This is found in Europe and America and is the one led about by showmen Its flesh is eatable The grizzly and black bears are found in the United States, though the former, which is the largest and strongest of the bears, is now almost confined to the national parks. The fur of the black bear is valuable. The polar bear is valuable. is found in the Arctic regions and the spectacled bear in the Andes In Asia there are the Syrian bear and the Malayan or honey bear, the former

having a valuable fur

Bear balting is a sport, once popular in England A bear was put in a pit or chained to a stake and was then attacked by dogs, buildogs being usually employed. The sport was carried on in England in the 12th century, but its most flourishing period was the 16th and 17th centuries. It fell into disuse in the 18th, atthough it was not foolidated by large with the 18th, although it was not forbidden by law until 1835. Large cities had their bear gardens. In London there were gardens at Southwark, Westminster and Clerkenwell

Beard Moss (Usnea barbata) Pen-dulous greyish green thread like lichen It hangs from the branches of old trees and is found in Britain, and other countries in the temperate regions An orange dre can be produced from it

Beardsley Aubrey Vincent English Born at Brighton, Aug. 21, 1872, he worked for some years as an architect's draughtsman architect's draughtsman His bizarre talent attracted the attention of Sir Edward Burne-Jones, on whose advice he devoted himself to illustrative and decorative art, illustrative and decorative and the most 1893 until his death he was one of the most His work widely discussed artists of the day. His work was admired for its exquisite decorative quality and disdain of conventional drawing and criticised for its morbidity and decadence. Much of it appeared in the celebrated Yellow. Book (1894-1895) He illustrated an edition of The Rape of the Lock (1896), and his frontispiece to Volpone (1898) is regarded as his masterpiece He died March 16, 1898

Beard Tongue Name often used for the flower also called

the pentstemon (q v)

Bearing In a machine the mechanical device at which the revolving parts make contact with the non-revolving parts For plain bearings, used when large surfaces are in contact, alloys made to stand friction are used They are usually in two

The commonest kinds of bearings are ball and roller bearings, which offer much less friction than the plain ones. The balls or rollers are arranged so that they do not touch and also revolve on their own centres.

Béarn District in the Pyrenees, once province of France Earlier was part of Gascony and then of Navarre, becoming part of France when Henry of Navarre (Henry IV) became king in 1589

Beatification In the Roman Catholic Church a step towards canonisation The person beatified is declared blessed, and can be venerated The process usually takes a long time It was about 30 years in the case of Joan of Arc

Beatitudes Certain sayings of Jesus Christ that are recorded in Matt v and Luke vi They form the opening passage of the Sermon on the Mount, and each of them begins with the word blessed S Matthew gives them more fully than does S Luke The word has been used for them Beaton David Scottish prelate He was born in 1494, and was educated

as a priest at St Andrew's, Glasgow, and then in Paris In 1537 he was made Bishop of Morepoix Next year he was made a cardinal and in 1539 he returned to Scotland to become Richard of St Andrews Hodde to become Bishop of St Andrews He did much to prevent Henry VIII from uniting Scotland and England Other actions made him disliked by the reformers and in May 29, 1546, the cardinal was murdered in his castle at S Andrews

Beatrice Beloved of Dante She was the "glorious lady of his mind," the one who typiffes the spirit of love She is mentioned in *The Divine Comedy*, but little is known of her She was a native of Florence and first met Dante when both were children She was married to Simon di Bordi and was only 24 when she died in 1290

Beatrice Princess of Great Britain Beatrice Mary Victoria Feodora, the youngest child of Queen Victoria, was born in April 14, 1857, and married in 1885 Prince Henry of Battenberg, who died in 1896 while on active service with the British Her eldest son was created forces in Ashanti Marquess of Carisbrooke and her daughter, Victoria Eugenie, was Queen of Spain until 1931 See BATTENBERG

Beatty Earl English admiral The son Beatty of an Irishman, Capt D L Beatty of Borodale, Wexford, he was born in Cheshire, Jan 17, 1871 In 1884 he entered the navy In 1896 he was second in command the navy In 1896 he was second in the navy In 1896 he was second in the navy In 1896 he was second in 1896 he was second in 1896 of the naval brigade that went up the Nile and in 1898 he marched with Kitchener to Khartoum The Boxer Rebellion in China offered him another chance There he was severely wounded, but he had made a name for himself, and before he was 30 years old he was a captain

and before 40 a rear admiral In 1912 Beatty became naval secretary to the First Lord of the Admiralty and in 1913 he went to sea in command of the battle cruiser the World War began and he figured prominently in the fighting at sea On Aug 28th, 1914, he led his cruisers into the Heligoland Bight to support a raid by lighter vessels and on June 24 1915 he fought the bettle of the Dogger 24, 1915, he fought the battle of the Dogger Bank He was in command of the battle cruisers at Jutland and was in the thick of that

engagement, In Nov., 1916, Beatty succeeded Jellicoe as commander in-chief of the Grand Fleet, and one another, they move round with the shaft the surrender of the German warships His reward was a grant of £100,000 and an earldom .

he was also made admiral of the fleet In Oct., 1919, he became first sea lord, a position he

retained until 1927

In 1901 Beatty married Ethel, daughter of Marshall Field of Chicago The elder of their two sons, who is known as Viscount Borodale, was elected Unionist M P for Peckham in 1931 Beatty's honours include the O M and member-ship of the privy council

Beauchamp Earl British title held by the family of Lygon since 1815 William Lygon was made a baron in 1806, and an earl in 1865, taking the title of Beauchamp because of his descent from the Beauchamp who was contained. the Beauchamps who were earls of Warwick William, the 7th earl, became a leading Liberal politician From 1899 to 1901 he was governor of Now South Wales and from 1907 to 1915 he was in the Liberal ministry as lord steward, first commissioner of works and lord president. Later he was Chancellor of London University and Warden of the Cinque Ports, but he resigned these positions in 1931 His seat is Madresfield Court, Worcester, and his eldest son is called Viscount Elmley The Viscount is Liberal M P for East Norfolk

Beauclerk Name given to Henry I of England (qv) because

of his great learning

of his great learning

Beaufort Duke of English title held
by the family of Somerset,
lt dates from 1682 when Henry Somerset,
3rd Marquess of Worcester, was made a duke
He was a descendant of Henry Beaufort, 3rd
Duke of Somerset, hence the names Charles
Somerset, an illegitimate son of the duke, was
made Earl of Worcester in 1513, and his
descendant was created marquess in 1642
The dukes of Beaufort owned at one time
enormous estates in Gloucestershire. Mon-

enormous estates in Gloucestershire, Monmouthshire, Glamorganshire and elsewhere, where they lived almost as kings, but much of their land has been sold Badminton is of their land has been sold Badminton is now the family seat Earlier it was Raglan Castle Henry, the 7th duke (1792-1853) and Henry, the 8th duke (1824 99) were noted sportsmen The duke s eldest son is called the Marquess of Worcester

Beaufort Henry English cardinal and dren of John of Gaunt by his second marriage, he was consequently a younger half brother of Henry IV He was consecrated Bishop of ne was consequency a younger had broader of Henry IV He was consecrated Bishop of Lincoln in 1398, and, soon after the accession of his half-brother to the throne in the following year was appointed to the chancellorship of the kingdom which, however, he resigned in his translation to the see of Winchester as successor to William of Wykcham In the quarrels between Henry IV and the Prince of Wales (afterwards Henry V) Beaufort sided with his nephew and fell into disgrace. On the accession of Henry V accession of Henry V, however, he once more became chancellor and took a leading part in government business until 1417, when he resigned in order to be able to attend the Council of Constance

After the death of Henry V Beaufort was After the death of Henry V Beaufort was the leading opponent of the schemes of Hum phrey, Duke of Gloucester he became chancellor for the third time in 1424, and for two years was virtual ruler of England His position becoming untenable owing to Humphrey's enmity, he again resigned accepted a cardinal's hat from Pope Martin V, and was appointed beautour for Germany Hungary and Bohemia Later he was recalled to the council, but Humphrey of Gloucester's hostility was shire gentleman, he went to Oxford and

renewed and an attempt was made to deprive him of his see During his later years he tool little part in public affairs He died April 11 1447

Beaufort Scale Arrangement to calculating the force of the wind at sea It was invented in 1805 by Sir Francis Beaufort The scale consists of the numbers 0 to 12 each of which represents a certain wind velocity Fo represents a certain wind velocity for instance, calm is 0, a rale with a velocity o miles per hour of 39-46 is 8, a strong gal with a velocity of 47-54 is 9, a storm with a velocity of 64-75 is 11 and a hurricane with a velocity of over 75 m per hour is 12

Beauharnais French noble family Belonging to the Or leans district several of its members became prominent in the late 18th and early 19th centuries François, Marquis de Beau harnals Ferté, was a royalist and emigre during the French Revolution, but after wards held high diplomatic office under Napoleon His brother Alexandre, Vicomte de Beauharnais, was the first husband of Josephine, who afterwards became the wife of Napoleon He commanded the republican army of the Rhine in 1793, and owing to his failure to relieve Metz was guillotined

Eugene de Beauharnais, son of Alexandre Eugene de Beauharnais, son of Alexandre de Beauharnais and Josephine, and stopson of Napoleon, served with his stepfather in Italy and Egypt, rendered signal services during the consulato, and on Napoleon be coming emperor was given the rank of prince He was appointed viceroy of Italy, held various high military commands, and in 1810 was created grand duke of Frankfort After the fall of Napoleon he lived in Munich He died Feb 22, 1824

Beaulieu Village of Hampshire In to its ruined abbey once a Cistercian house! It stands on the River Beaulieu, and near is the residence of Lord Montagu of Beaulity. lieu A pleasure resort on the Riviera in France, is also called Beaulieu, or the beautiful place

Beaumarchais Pierre Augustin dramatist He was born in Paris, Jan 24, 1732, and was brought up to his father's trade of watchmaker He was appointed watchmaker to the king became a popular figure at court, married the widow of a court official, and, obtaining a patent of nobility assumed the name of de Beaumarchais in addition to his own name of Caron For some years he led an adventurous life age an exert years he led an adventurous life as an agent in the king's secret service and he took an active part in securing the assistance of France active part in securing the assistance of France for the American Colonies in the War of Independence In 1775 he produced his comedy The Barber of Seville A sequely The Marriage of Figaro, was written in 1778 Both comedies have been made into operas—the Barber by Rossini and Figaro by Mozarti He died in Paris, May 19, 1799

became a lawyer in London His time, however, was mainly passed in the society of Ben Jonson and others at the Mermaid Tavern, where doubtless he met John Fletcher about 1608 The two began to write plays together, sometimes obtaining assistance from others, and their names are inseparably linked The plays include The Woman Hater, The Maid's Tragedy and The Knight of the Burning Pesile Beaumont, died March 6, 1616 He was burled in Westminster Abbey, and has a memorial window in Southwark Cathedral

Beaumontague Putty or cement in making joints or filling cracks in joinery or iron work For ironwork, sal ammoniae iron borings, grease and lamp-black are used. and for wood work the ingredients are litharge, white lead, and linseed oil

Beaumont Hamel Village of France about 6 m. from Albert, it was the scene of some hard fighting during the Great War The British attacked it without success in July, 1916, but captured it during the battle of the Aisne in the following Nov In March, 1918, the Germans attacked it, but the village was held by the British after a hard fight.

Beaune Town of France It is 22 m from Dijon on the railway from Paris to Lyons An old place, it has remains of a castle In the district of Buryundy, Beaune gives its name to a popular wine made from the grapes of the vineyards near Pop 13,780

Beauvais City of France Capital of is about 50 m from Parls The cathedral, begun in the middle of the 13th century, is one of the most remarkable examples of Gothic architecture in existence, with stained glass windows that rival those of Chartres The principal manufactures are textiles, toys and leather goods Pop 18,738

Beaver Rodent animal found in Europe, they are found in France and Norway at one time they were plentiful in Great Britain, especially Scotland An average animal measures about 30 in and weighs about 50 lb Its body is covered with soft brown fur, and its tail is long and thick. It lives in and near water, and feeds chiefly on plants and bark. The fur is valuable, while the Indians cat their flesh. Scent is obtained from it. The beaver is famous for its skill in building. The animals are able to fell trees, and convey them along a stream to a suitable place for a dam. These dams in which mud is used to fill the gaps between the logs, serve to protect the beaver's home. They are very strong and often quite large.

The tall hats worn by men were called beavers because at one time they were covered with beaver fur

Beaverbrook Lord English poliwell Aitken, the son of a Presbyterian minister, was born at New Brunswick, May 25, 1879 Having entered business he was not long in making a fortune, and he was therefore able, in 1909, to settle in England where he had a good friend in Mr Bonar Law In 1910 he became MP for Ashton-under-Lyne, and in 1911 he was made a knight During the World War he was associated with the Canadian forces, and was behind the scenes in the

political negotiations that preceded the formation of a Coalition Government in 1916 In 1918 having since 1916 been Lord Beaverbrook, he became minister of information. After the war he turned his attention to newspapers, bought The Daily Express and later the control of The Evening Standard and founded The Sunday Express In 1929 he handed over the control to his elder son, and devoted himself to the cause of advocating free trade within the empire His books include Politicians and the War

Bebington Urban district of Cheshire to It stands on the Mersey, mercan from Birkenhead, and consists of Higher Bebington and Lower Bebington It is served by the LMS. and GW Rlys, and is practically a suburb of Birkenhead With Bromborough it forms an urban district Pop (1931) 26 742

Bec Short name for the French village of Le Bec Hellouin It is 26 m from Evreux, and has remains of an abbey This was a Benedictine house, founded about 1030 by Helloum, who was succeeded as abbot by Lanfranc and then by Anselm William I endowed it with lands in England, including Tooting Bec, London

Beccaria Cesare Italian economist and jurist He was born in Milan, March 15th, 1735, and was educated by the Jesuits He began writing on economic subjects in 1762, and two years later he published his celebrated treatise On Crimes and Punishments, which was an immediate success and was translated into several European languages It may be regarded as the foundation of the movement for penal reform He was appointed professor of law and economics at Milan in 1768, and was made a marquis He died in Milan, Nov 28, 1794

Beccles Borough and market town of Suffolk. It stands on the Waveney, 8 m from Lowestoft and 109 from London, on the L N E Rly There is a trade along the river, and the industries include printing and milling Pop (1931) 6,544

Bechuanaland Country of British Bounded on the south by the Orange river, and on the east and north-east by Matabeleland, the Transvaal and the Orange River Colony The southern region, British Bechuanaland, forms part of Cape Colony The northern region is styled the Bechuanaland Protectorate, and is virtually a crown colony Mafeking, the chief town of British Bechuanaland, is also the capital of the Protectorate The Bechuana, of whom the Basuto (qv) are a branch, belong to the great Bantu race They are mainly an agricultural people, but also show considerable skill in metal work and pottery The combined native population of British Bechuanaland and the protectorate is about 250,000

Beck Adolph. Victim of a serious misresiding in London, where he carried on a business as a financial agent, Beck was convicted at the Central Criminal Court, London, in 1896, of frauds on women. His sentence was seven years penal servitude, which he served In 1904 he was again convicted, but before sentence was passed the real offender was found. Beck received £5000 as compensation he was also made admiral of the fleet In Oct, 1919, he became first sea lord, a position he

retained until 1927

In 1901 Beatty married Ethel, daughter of Marshall Field of Chicago The elder of their two sons, who is known as Viscount Borodale, was elected Unionist M P for Peckham in 1931 Beatty's honours include the O M and member ship of the privy council

Beauchamp Earl British title held by the family of Lygon since 1815 William Lygon was made a baron in 1806, and an earl in 1865, taking the title of Beauchamp because of his descent from the Beauchamps who were earls of Warwick William, the 7th earl, became a leading Liberal politician From 1899 to 1901 he was governor of New South Wales and from 1907 to 1915 he was in the Liberal ministry as lord steward, first commissioner of works and lord president Later he was Chancellor of London University and Warden of the Cinque Ports but he resigned these positions in 1931 His seat is Madresfield Court, Worcester, and his eldest son is called Viscount Elmley The Viscount is Liberal MP for East Norfolk

Beauclerk Name given to Henry I of England (qv) because of his great learning

Beaufort Duke of English title held by the family of Somerset It dates from 1682 when Henry Somerset, 3rd Marquess of Worcester was made a duke He was a descendant of Henry Beaufort, 3rd Duke of Somerset, hence the names Charles Somerset, an illegitimate son of the duke, was made Earl of Worcester in 1513, and his descendant was created marquess in 1642. The dukes of Beaufort owned at one time enormous estates in Gloucestershire, Mon

mouthshire, Glamorganshire and open where they lived almost as kings, but much bas been sold Badminton is of their land has been sold Badminton is now the family seat Earlier it was Raglan or their land has been soid Badminton is now the family seat Earlier it was Ragian Castle Henry, the 7th duke (1792 1853) and Henry, the 8th duke (1824 99) were noted sportsmen The duke seldest son is called the Marquess of Worcester

Beaufort Henry English cardinal and statesman One of the children of John of Gaunt by his second marriage, he was consequently a younger half brother He was consecrated Bishop of of Henry IV Lincoln in 1398, and, soon after the accession of his half-brother to the throne in the following year, was appointed to the chancellorship of the kingdom which however, he resigned in his to William of Wykeham In the quarrels between Henry IV and the Prince of Wales (afterwards Henry V) Beaufort sided with his nophew and fell into disgrace On the accession of Henry V, however, he once more became chancellor and took a leading part in government business until 1417 when he resigned in order to be able to attend the Council of Constance

After the death of Harry V translation to the see of Winchester as successor

After the death of Henry V Beaufort was the leading opponent of the schemes of Humphrey, Duke of Gloucester, he became chancellor for the third time in 1424, and for two years was virtual ruler of England His position becoming untenable owing to Humphrey's enmity, he again resigned, accepted a cardinal's hat from Pope Martin V, and was appointed papal legate for Germany. Hungary and Bohemia Later he was recalled to the council, but Humphrey of Gloucester's hostility was

renewed and an attempt was made to deprive him of his see During his later years he took little part in public affairs He died April 11,

Beaufort Scale Arrangement for calculating force of the wind at sea It was invented in 1805 by Sir Francis Beaufort The scale consists of the numbers 0 to 12 each of which represents a certain wind velocity instance, calm is 0, a gale with a velocity of miles per hour of 39-46 is 8, a strong gale with a velocity of 47-54 is 9, a storm with a velocity of 64-75 is 11 and a hurricane with a velocity of over 75 m per hour is 12

Beauharnais French noble family Bolonging to the Or leans district several of its members became prominent in the late 18th and early 19th centuries François, Marquis de Beauharnais Ferté, was a royalist and emigré during the French Revolution, but after wards held high diplomatic office under Nanoles French Revolution, high diplomatic office under Alexandre, Vicomte His brother Alexandre, Napoleon do Beauharnals, was the first husband of Josephine who afterwards became the wife of Napoleon He commanded the republican army of the Rhine in 1703, and owing to his failure to relieve Metz was guillotined

Eugene de Beauharnais, son of Alexandre de Beauharnais and Josephine, and stepson of Napoleon served with his stepfather in Italy and Egypt, rendered signal services during the consulate, and on Napoleon becoming emperor was given the rank of prince. He was appointed viceroy of Italy, held various high military commands, and in 1810 was created grand duke of Frankfort. After the fall of Napoleon he lived in Munich He died Feb 22, 1824

Beaulieu Village of Hampshire In the New Forest, it is famous for its ruined abbey once a Cistorcian house It stands on the River Beaulieu, and near is the residence of Lord Montagu of Beau; lieu A pleasure resort on the Riviera in France, is also called Beaulieu, or the beautiful

Beaumarchais Pierre Augustin Garon De French dramatist. He was born in Paris, Jan 24, 1732 and was brought up to his father's trade of watchmaker He was appointed watchmaker to the king became a popular figure at court, married the widow of a court official, and obtaining a patent of popular official, and, obtaining a patent of nobility assumed the name of do Beaumarchais in addition to his own name of Caron For some years he led an adventurous life as an agent in the kings secret service and he took an active part in securing the assistance of France for the American Colonies in the War of Independence In 1775 he produced his comedy The Barber of Seville A sequel The Marriage of Figaro, was written in 1778 Both comedles have been made into operasthe Barber by Rossini and Figaro by Mozart He died in Paris, May 19, 1799

County town. Beaumaris watering place and market town of Anglessy It is situated on Beaumark Bay, at the northern entrance to the Mena Strait, 7 m. from Bangor and 239 m from London Pop (1931) 1708

Beaumont Francis English dramatist The son of a Leicester shire gentleman, he went to Oxford and

became a lawver in London His time, how-ever, was mainly passed in the society of Ben Jonson and others at the Mermaid Tavern, where doubtless he met John Fietcher about 1608 The two began to write plays together, sometimes obtaining assistance from others, and their names are inseparably linked and their names are inseparably linked. The plays include The Woman Hader, The Maid's Tragedy and The Knight of the Burning Pestle. Beaumont, died March 6, 1616 He was buried in Westminster Abbey, and has a memorial window in Southwark Cathedral

Beaumontague Putty used or cement in making joints or filling cracks in joinery or iron work For ironwork, sal ammoniac iron borlings, grease and lamp-black are used and for wood work the ingredients are litharge, white lead, and linseed oil

Beaumont Hamel Village of France about 6 m from Albert, it was the scene of some hard fighting during the Great War The British attacked it without success in July, 1916, but captured it during the battle of the Aisne in the following Nov In March, 1918, the Germans attacked it, but the village was held by the British after a hard fight.

It is 22 m Town of France Beaune Town of France at 18 22 m from Paris to Lyons An old place, it has remains of a castle In the district of Burgundy, Beaune gives its name to a popular wine made from the graves of the vineyards near 13.780

Beauvais City of France Capital department of Oise, Capital of is about 50 m from Paris The cathedral. begun in the middle of the 13th century, is one of the most remarkable examples of Gothic architecture in existence, with stained gless windows that rival those of Chartres The principal manufactures are textiles, toys and leather goods Pop 18,738

Beaver Rodent animal found in Europe, they are found in France and Norway, at one time they were plentiful in Great Britain, especially Scotland An average animal animal measures about 30 in and weighs about 50 lb Its body is covered with soft brown fur, and its tail is long and thick It lives in and near water, and feeds chiefly on plants and bark. The fur is valuable, while the Indians cat their flesh Scent is obtained from it The beaver is famous for its skill in building. The animals are able to fell trees, and convey them along a stream to a suitable place for a dam. These dams in which mud is used to fill the gaps between the logs, serve to protect the beavers home They are very strong and

often quite large
The tall hats worn by men were called

with beaver fur

Beaverbrook Lord. English poli-William Maxwell Altken, the son of a Presbyterian minister, was born at New Brunswick, May 25, 1879 was born at New Brunswick, May 25, 1018 Having entered business he was not long in making a fortune, and he was therefore able, in 1909, to settle in England where he had a good friend in Mr Bonar Law In 1910 he became MP for Ashton-under-Lyne, and in 1911 he was made a knight During the World War he was associated with the Canadian World War he was associated with the Canadian forces, and was behind the scenes in the

political negotiations that preceded the formapontical negociations that preceded the forma-tion of a Coalition Government in 1916. In 1918, having since 1916 been Lord Beaver-brook, he became minister of information. After the war he turned his attention to newspapers, bought The Daily Express and later the control of The Evening Standard and founded The Sunday Express In 1929 he handed over the control to his elder son, and devoted himself to the cause of advocating His books free trade within the empire include Politicians and the War

Bebington Urban district of Cheshire It stands on the Mersey, m from Birkenhead, and consists of Higher Bebington and Lower Bebington It is served by the LMS, and GW Rlys, and is practically a suburb of Birkenhead With Bromborough it forms an urban district. (1931) 26 742

Bec Short name for the French village of Le Bec Hellouin It is 26 m from Evreux, and has remains of an abbey was a Benedictine house, founded about 1030 by Hellouin, who was succeeded as abbot by Lanfranc and then by Anselm William I. endowed it with lands in England, including Tooting Bec, London

Beccaria Cesare Italian economist and jurist. He was born in Milan, March 15th, 1735, and was educated by the Jesuits He began writing on economic subjects in 1762, and two years later he published his celebrated treatise On Crimes and Punishments, which was an immediate success and was translated into several European It may be regarded as the foundalanguages tion of the movement for penal reform He was appointed professor of law and economics at Milan in 1768, and was made a marquis He died in Milan, Nov 28, 1794

Beccles Borough and market town of suffolk. It stands on the Waveney, 8 m from Lowestoft and 109 from London, on the L N E Rly There is a trade along the river, and the industries include printing and milling Pop (1931) 6.544

Bechuanaland Country of South Africa of British bounded on the south by the Orange river, and bounded on the south by the Grange river, and on the east and north-east by Matabeleland, the Transvaal and the Orange River Colony The southern region, British Bechuanaland, forms part of Cape Colony The northern region is styled the Bechuanaland Protectorate, region is styled the Bechuanaland Protectorate, and is virtually a crown colony Maleking, the chief town of British Bechuanaland, is also the capital of the Protectorate The Bechuana, of whom the Basuto (qv) are a branch, belong to the great Bantu race They are mainly an agricultural people, but also show considerable skill in metal work and pottery The combined native population of British Bechuanaland and the protectorate is about 250,000

Beck Adolph Victim of a serious mis-residing in London, where he carried on a business as a financial agent. Beck was con-victed at the Central Criminal Court, London, in 1896, of frauds on women His sentence was seven years penal servitude, which he served In 1904 he was agally convicted, but before sentence was passed the real offender was found. Beck received 25000 as compensation.

the S Rly It is a residential area. At Monk's Orchard is the new Bethlem Hospital, opened in 1930 Pop (1931), 43,834

Becket Thomas English statesman and esclesiastic A Londoner by birth he was born Dec 21, 1118, and received a good education, studying for some time in Paris In 1154 he was appointed archdeacon of Canterbury, and in the following year, on the advice of Theobald, Archbishop of Canterbury, Henry II made him chancellor For seven years he showed himself a zealous and canable minister of the Crown, and on the

For seven years he showed himself a zealous and capable minister of the Crown, and on the death of Theobald, Henry rewarded him by nominating him to the see of Canterbury From that time Becket's attitude changed completely He resigned the chancellorship, devoted himself to religion and became a determined opponent of Henry's anti-cleric alism In 1164 there was a definite rupture with the king over the Constitutions of Clarendon, and Becket was obliged to withdraw to France Ultimately, by the intervention of the Pope, a reconciliation was patched up and Becket returned to England, but relations and Becket returned to England, but relations were still strained A month later (Dec 29, 1170). Becket was brutally murdered at Canter bury by some members of the royal household, who, it is said, were prompted to the crime by some incautious words used by the king Becket was canonised in 1172, and his shrine at Canterbury became a place of pilgrimage

Beckford William English writer Cott. 1, 1760, he inherited a large fortune and married Lady Margaret Gordon He is famous as the author of the singular philosophical romance The History of the Caliph Vathet, which he wrote in French in 1762 An English translation appeared in 1786 From 1784 93 he was MP for Wells, and from 1806-20 for Hindon. He spent his money 1806-20 for Hindon. He spent his money freely in building a country house at Fonthill and in making collections of books and works of art. He also built the tower on Lansdowne Hill, Bath Beckford died at Bath, May 2, 1844, leaving two daughters, one of whom became Duchess of Hamilton.

Beckford's father, William Beckford (1709-70), a London merchant, was MP for the city, and twice lord mayor He is known as a supporter of Wilkes and the author of a short speech which is now on a monument in the London Guildhell, We died Jane 21, 170e London Guildhall He died June 21, 1770

Becontree District of Essex. It ad be reached by the LMS, and is 11 m from London It owes its existence to a huge housing estate designed to hold 80,000 people, led by the the the London Country Council. laid out by the London County Council

Bedale Market town of Yorkshire (NR) on the LNE Rly Pop 1064

Bedale is also the name of a district near the town, and gives its name to a pack of hounds that hunt this part of Yorkshire

Beddgelert Village of Caernaryonshire At the foot of Snowdon, it is 13 m from Caernaryon According to local tradition it was the scene of the legend of Llewellyn and his hound Gelert—hence the name, which means Gelert's grave Pop

BECKENHAM

Beckenham

Urban district of Kent, from Croydon, on the S Rly It is notative because of its association with the great family of Carew, who long lived at the hall, which is Monk's Orchard is the new Bethlem Hospital, open to the public. With Wallington, Bedding open to the public. With Wallington, Bedding open to the public. Pop (1931) 26,249

Bede English saint and scholar called the Venerable About 680, being still a child, he entered the monastery at Wearmouth, near his home Mearmouth, near his home eame prior Bede is famous for his Ecclesi astical History, which, written in Latin is very valuable for the information it gives about the carry history of England. He wrote other early history of England. He wrote other works, and also translated the gospel of S John He died at Jarrow, May 26, 735 Later he was canonised and his festival is kept on May 27

Bedel Official at the older universities The word is a variant of beadle 'At Oxford there are four bedels, one of whom carries the vice-chancellor's carries the vice-chancellor's mage Their other duties are to give out notices and gener ally carry out the vice-chancellor's orders At Cambridge there are two Called esquire bedels, both carry maces before the vice chancellor

Bedesman Person who offers beder or prayers for another, also spelled beadsman As those who did this were usually paid, the word came to mean a pensioner, or the immate of a hospital or else, where In Scotland the king's bedesmen were licensed beggars who, on the king's birthday, received a blue gown, a loaf, a bottle of all and a penny for each year of the king's age. They were sometimes called bluegowns, and the last one was elected in 1833

Bedford County town of Bedfordshire It stands on the Ouse, 50 m from London by the LMS Rly It is a manufacturing town, with large engineering and other works, a market for agricultural produce and is noted for its schools especially the manufacturing the country of the countr the grammar school founded in 1561, which is one of the country's great public schools Here is the Bunyan meet house Pop (1931) 40 573

Bedford Duke of Title borne by the Russell was made Earl of Bedford in 1550 Russell was made Earl of Bedford in 1550. William, the 5th earl, was one of those who asked William of Orange to come over to England in 1688 he was rewarded in 1698 with a dukedom The best known of his successors was perhaps, John, the 4th duke, a prominent politician in the 18th century. He was Lord Lieutenant of Ireland, 1753-61, and Lord President of the Council 1763-65, and was the leader of those Whigs who formed the Bloomsbury gang. In 1893 Herbrand Arthur Russell became the 11th duke.

Devonshire, where are in Bedfordshire and Devonshire, where are ducal seats Woburn Abbey and Endaleigh near Tavistock. The valuable London property, including much of Bloomsbury and Covent Garden, has been sold The dule's eldest son is called the Marquess of Tavistock. The family estates are in Bedfordshire and

it is 13 m from Caernarron According to local tradition it was the scene of the legend of Liewellyn and his hound Gelert—hence the name, which means Gelert's grave Pop V In 1414 he was made Duke of Bedford 1213

Beddington District of Surrey It is by young nephew, Henry VI He carried Peddington on the Wandle, 2 m.

fully, but less so after the appearance of Joan of Arc He died at Rouen, Sept 19, 1435

Bedford College London College was founded in 1849 by Elizabeth J Reid Its first home was in Bedford Square, later it was moved to York Place, and in 1913 to a building in York Gate, Regent's Park This cost £130,000 to build, and accommodates 80 students The college is a recognised training college for teachers and social workers. training college for teachers and social workers. and in 1918 was recognised as a school for the training of health visitors

Bedford Level District in the countuingdon, Northampton, Lincoln, Norfolk and Suffolk It covers nearly 100,000 acres or about 150 sq m At one time it was a vast swamp, but soon after 1600 it was drained by a Dutchman, Cornelius Vermuyden, at the expense of the Earl of Bedford and others It consists of these parts parts and the capacity of these parts. It consists of three parts—north, middle and south—and is now fertile and cultivated soil The surplus water is carried off by the Ouse, Welland, Nen and other rivers and by artificial channels, especially the old and the new Bedford rivers These go from the isle of Ely to the Ouse, a distance of 21 m The Level is managed by a board, consisting of governor. bailiffs and conservators

Bedford Park Suburb of London Acton, it was laid out as a garden suburb before such suburbs had become general

Bedfordshire Small inland county of England It covers 473 sq m and is flat, except where the Chiltern 473 sq m and is flat, except where the Chiltern Hills enter it in the south-west, and the soil is very fertile Bedford is the county town, other places of importance are Luton Dunstable and Biggleswade The chief river is the Ouse, and the county is served by the LNE and LMS Riys Much of the land belours to the Duke of Bedford, whose seat is Woburn Abbey Pop (1931) 206,478

The Bedfordshire Regiment, formerly the 16th of the line, was raised about 1685, and has seen a great deal of active service, including the S African War and the Great War

Bedivere One of King Arthur's knights According to Malory, he shared adventures of the band He is specially famed however, as being the one who staved with the dving king to the end It was he who threw the sword Excalibur into the lake, and carried Arthur to the barge. The story is told by Tennyson in The Passing of driver.

of Arthur

Bedlam Popular name for Bethlem Hospital It was founded in London in 1247 as a religious house, and became a home for the insane, the fact in the country, in 1403 In 1676 it was Bedlam Popular name or Bethlehem first in the country, in 1403 In 1676 it was moved from Bishopsgate to Moorfields, and in 1815 to Lambeth There it remained until 1930, when new buildings were crected at Monk's Orchard, Beckenham The extensive grounds were bought by Viscount Rothermere and opened as a public park

Bedlington Urban district of North-the River Blyth, 4 m from Morpeth, on the LNE Rly, in a district of coal mines Other industries include the making of chains The district around is called Bedlingtonshire Pop (1931) 27,315

The Bedlington Terrier, called after the place, has a hard woolly coat, dark blue tan or sandy in colour With narrow head and long tail, the animal is an excellent house dog, and has a reputation for killing rats

Bedloe's Island of the United States It is in New York Bay, about 11 m from the island of Manhattan. On it is the Statue of Liberty, the work of Bartholdi presented to the States by France in 1886

Bedouin Name given to those Arabs Ishmael They are nomads, living in tribes, each under a shelk, keeping herds of camels, sheep and goats, and are excellent horsemen They are found, not only in their native Arabia, but in Mesopotamia and other parts of Asia, in Egypt and other regions of northern and central Africa

Bedstead Framework in which a bed the Egyptians and other early peoples were not unlike our couches, and the Romans made something of the kind to rest on In England and other countries for many years, the only bedstead for the bulk of the people was the floor, but soon the richer classes began to sleep upon wooden benches These were sometimes placed in recesses or shut off by curtains from the main apartment

As the country became richer, bedsteads of the modern type appeared. The rich Anglo-Saxons and Normans had bedsteads with posts and canopies In the 13th century tester beds were seen, and in the 15th came the large square bedsteads that lasted until modern times There are fine examples of them in the South Kensington Museum In the 19th century brass and iron bedsteads. In the 19th century brass and iron bedsteads were introduced and made on an enormous scale, but in the 20th there was a return to the wooden bedstead, but without posts or hangings Truckle bedsteads were bedsteads made to go underneath larger ones

Bedstraw (Galium) Genus of herbs Slender plants with leaves in whorls of four or more leaves, there are nearly a dozen members of the British species Among these are goose grass, corn bedstraw and wall bedstraw which are annuals, while the other species are perennial. The perennials include the common hedge bedstraw which has long, weak stems without the hooks which distinguish goose grass

Bedwellty Urban district of Mon-from Pontypool, on the GW Rly In a colliery district mining is the chief occupation

Pop (1931) 31,089

Bedworth Wickshire It is 3 m from Nuneaton, and 100 from London, on the LMS Rly In a coal mining district, it manufacturing industries has also some manufacturing Pop (1931) 12,058

Bee Insect belonging to the family hymenoptera They have four wings and
possess stings Some, such as the honey bee
and the humble bee, live in communities,
others are solitary and make their homes by burrowing in the ground

There are three classes of bee in a hive, the queen bee, who is the one fertile female, the drones, who are the males, and the workers, who are sterile females. They have an elaborate organisation for collecting pollen from

Journal of the folder workers and storing it in the hives the house which, and he died Jan 28, 1839 and elected RA, workers do the outside work, leaving the care story and became an admiral of the produce became an admiral story and became an admiral story at the story workers do the outside work, leaving the care of the hive to the younger ones. At times, usually in the autumn, the drones are killed when the care laid in the usually in the autumn, the drones are killed. The bee is hatched from an egg laid in the comb of the queen. This becomes a grub in a few days and is fed by the workers. The cell is then sealed up for the grub to become a pupa, from which it emerges as an adult bees. The whole process takes about three weeks. When a hive is too full, some of the bees having provided themselves with a new to cluster, will usually hang on a tree until it is taken and put into a new hive when the government of the complete of the combine of the complete of the combine of the

industry in Great Britain and other countries
The hives are usually made of wood and are
so arranged that the honey can easily be
taken out from time to time There is a
British Beckeepers Association at 23 Bed
of Street, Strand, London, WC, and a
HONEY Brublished in their interests

See

Crans substance Trace of the

HONEY

Beech (Fagus sylvatica) Tree of the Beech (Fagus sylvatica) Tree of the of British forest trees It is native to British forest trees It is not form 60 to British with a girth of from 12 from 60 to British form 60 to Bri

Beecham Sir Thomas English must he was a son of Sir Joseph Beecham who was made a haronet in 1914 His grandfather the made a baronet in 1914 His grandfather was Thomas Beecham, the founder of the pill making business at St Helens Educated Oxford His grandfather at Rossall and Wadham College Oxford Secondary and Composer of Marie Decomposer of Marie Decomposer Composer Especially did by Accelant devoted his time to music becoming a conductor and composer Especially did he work to music becoming a centre for grand opera in London and his concerts and operas were a feature of the London musical scason

were a feature of the London musical season

Beecher Henry Ward American

American

Beecher Henry Ward American

American

Beecher Henry Lyman Beecher (1775

and thom at Boston, afterwards being being the Recher

Stowe (2 v) was his sister Trained for the

Ministry under his father Henry became a

Ministry under his father

M

He went on three expeditions to an admiral He went on three expeditions to the Arctic where Beechey Island is named after him

where Beechey Island is named after him

Bee Eater (Merops apecister) Migra
longs to the family African bird It be
over 30 species About 11 in in length, it
has a long slender bill, the wings are long and
connected and the outer and middle toes are
connected to the first joint The plumage has
tints of chestnut brown and yellow with connected to the first joint. The plumage has tints of chestnut brown and yellow with greenish wings greenish blue and black with the plumage has black line. It resembles the kingfisher in the plumage by a where it lays from five to soven eggs which

are pure white

Beef Meat obtained from the carcases of body of bulls and cows It is a staple food of the British people and for long British people and for long British methods has made it possible to import producing and large quantities reach Britain from Australia New Zealand Argentian from British Rew Australia New Zealand Argentian and else beef was introduced of marking and grading In 1932 the imports of beef into Great Britain amounted to 560 200 tons Of this,

Britain amounted to 560 200 tons Of this, over 460 000 tons came from Argentina. When tariffs were introduced in 1931 32 The sirious is usually regarded as the best joint. Beefeater Name for the Yeomon of originated at the coronation of The body in 1485. They always attend at State functions. The Warders of the Tower or Yeomen eaters and still wear their traditional Tudor uniform.

Beefsteak Club The first Beefsteak 1709 where the fare was Club was formed in or wine and steaks and restricted to beel lime Society of Steaks and 1735 The Sub Iohn Rich and Lord Peterborough at Covent Garden Theatre Many famous people gath: in 1749 and the present one in London by A Stuart Wortley in 1875

Beefwood Name of several tropical and of one found in the West Indies The exceptionally hard is used by cabinetral leafless have drooping almost leafless

Beelzebub God of the Philistines the word is used for Satan (Matt. x , Testament Mark iii

most popular preacher in the United States He also won a reputation as a lecturer, and both preached and lectured in England

Beechey Sir William English painter His tastes however, led him to study art and ho soon made a reputation by his portraits, houses, but to day it is nearly all produced on large scale in breweries.

Luke x1)

Beer Beverage in which the chief in England, beer is made mait and chief in fermentation processes by infusion and high decoction and low fermentation and in the larger bear and the larger bear and to be the larger bear and septimination on time much beer mentation processes by infusion and low fermentation and low fermentation processes a large scale in breweries.

and as low sometimes as 21

In Great Britain a large revenue is obtained from the excise duty on beer. In 1931 this was raised to over 25 for every 36 gallons, but it varies somewhat according to the cravity. In addition the retailers of beer, like those of other intoxicating liquors, pay heavy licence duties

Beerbohm Max English English English writer and London, April 24, 1872 he was educated at Charterhouse and Merton College, Oxford He wrote for The Yellow Book, and published several volumes including The Happy Hypo crite and Zulecka Dobson, and was dramatic critic of The Salurday Review Although a clever and witty writer Beerbohm is perhaps more famous as a caricaturist His portraits of celebrities of all kinds are extraordinarily lifelike, while remaining caricatures and in Born lifelike, while remaining caricatures, and in some cases the legends are the perfection of subtle ironv

Beersheba Town of Palestine It from Jerusalem and was regarded as the most southerly point of the country which went from Dan to Beersheba. The modern Bir-es Saba occupies the site.

Beeston Urban district and market is on the Trent 3 m from Nottingham, on the LMS Riv It has been and other factories,

engineering works, etc. Pop (1931) 16 016

Another Beeston is a suburb of Leeds, on the LNE Riv

Beaston Castla is in Cheshire, 11 m from Crewe It is a magnificent ruin, standing on a hill from which wonderful views are obtained. Built in 1220 it was dismontled in 1646

Beeswax Yellow wax secreted by bees which they describe it they form the cells in which they deposit their honey When the honer has been drained from the honercomb noney has been drained from the noneycomy the wax is melted in hot water, strained and left to solidify. It can be bleached by the use of nitric acid or chlorine, but the best results are obtained by exposing it in thin layers to sunshine, keeping it moist during the process Dissolved in turpentine it is used for polished surfaces of furniture or floors. It is also used in surfaces of furniture or floors It is also used in cendle making and in some ointments

Beeswing Filmy crust of tartar de-wines when they have been kept for a long time It is a sign of age and resembles a bee's

wing in appearance

Beet Plant grown in Britain and elsewhere chiefly for its roots Its home is in the southern parts of Europe and it was introduced into Europe in the 16th century. introduced into England in the 16th century, when it was grown as a food for cattle Its main characteristic is the high proportion of sugar that it contains For this reason one variety of it, the sugar beet, which contains 12 per cent and more of sugar, is grown in Germany and Austria in order to be made into sugar.

In the 20th century, aided by a state subsidy, steps were taken to grow beet in England.
Factories were opened in Norfolk, Lincolnshire,
Nottinghamshire and elsewhere There the
sugar is extracted by pressure and refined and

An extract obtained from malted barlov and another from maize and sugar are put together. The solution called wort is boiled with hops, and after cooling is formented with veast. The proportion of alcohol in beer is not high, never more than 7 per cent, and low competitives are 21. plants

Beethoven Ludwig von German com-Bonn Dec 16, 1770 the son of a professional singer, and as a child showed extraordinary genius He was made organist to the Elector of Cologne but in 1792 he left Bonn for Vienna, where he studied under Mozart

where he studied under mozart. There he lived for the rest of his life troubled much by deafness. He died March 26, 1827.

One of the world's greatest composers. Beethoven is responsible for a large and varied. output His compositions include nine symphonies, among them one choral symphony, concertos for pianoforte and orchestra and 32 concertos for planoforte and orchestra and 52 solo planoforte sonatas. He also wrote two masses, an oratorio *The Mount of Olives*, the opera *Fidelio* and a great deal of chamber music. His whole life was passed in composing and his work is usually divided into three periods, his greatest pieces being produced in the middle one, which lasted from 1802 to 1814

Beetle Common insect of the order coleoptera of which about 150 000 species have been enumerated. The wings are covered with a pair of horny sheaths and the limbs protected by a thick cuticle. They have

Beetles pass through the same life stages as other insects, their first stage being in a form of larva, then pupa and finally the adult. They vary in size Ordinary beetles are about an inch long, but there are species which are 6 in long Some live in water They feed on plants and animal matter Most of them are unpleasant visitors and can do damage, but a few species are useful in lawns and gardens Damage to woodwork is done by the larvae of certain beetles which bore their way into it

Beetle Machine or implement used in industry. One form of beetle is a kind of hammer with a wooden head and is employed for driving in posts or ramming down paring blocks. A smaller beetle was used in the household for beating out dust, etc. In cotton and linen mills the beetle is a machine which finishes off material by hammering it over rollers. The process is called beetling

Begonia Popular plant in English gar-goted species have shown, brilliantly coloured B rex is grown for its beautifully shaped and coloured foliage Tuberous begonias are not hardy and those planted in early summer must be lifted in the autumn and stored during the winter in dry soil protected from frost. The winter in dry soil protected from frost ornamental-leaved species do best in moderate heat and should be shaded from a strong sun

Behaviourism Branch of psycholog-that is concerned with the objective study of the behaviour of animals and men The work done by E L Thorndike and others has shown that there is much similarity between the behaviour of men and that of the lower animals, and various con-clusions have been drawn therefrom The science owes a good deal to the British psychologist, C Lloyd Morgan

Behemoth Animal mentioned in the Bible. There are references

to it in the book of Job and also in some of the books of the Apocrypha It may have been a hippopotamus or an elephant, or, more probably, a gigantic animal now extinct

BEHN

First English Behn approx and dramatist Aphra Born at Wye in 1640, she was taken when young to S America, and there I new Oroonoko the African slave prince, upon whose life to S America, and there Jnew Oroonoko the African slave prince, upon whose life she based her best known novel, Oroonoko She roturned to England, and married a Dutch merchant. She was sent by Charles II to Flanders on secret service Becoming widowed and poor, she earned her living by writing, mostly plays, of which The Rover is the best She died in 1689

## Behring Strait See BERING

Beira Seaport of East Africa A Portuguese possession, it stands at the mouth of two rivers, the Bussi and the Pungue, and is the capital of the extensive territories of the Mozambique Co and the nearest scaport to much of Rhodesia, Salisbury being only 370 m away It is the terminus of the Beira Rly which connects with the railways of Rhodesia and a considerable trade passes through it There is a good harbour Pop 17 000

Beirut Seaport and town of Syria, also Mediterranean, 60 m from Damascus with which it is connected by railway The residence of the French high commissioner, it is also the capital of the republic of Lebanon A very old place, Belrut figures in the history of the Crusades Pop 134 655

Beisan Village of Palestine It is on the Jericho, and stands on the site of the ancient city of Bethshan In 1930 an expedition sent out by the university of Pennsylvania unearthed some very valuable relics of Hittite, Egyptian and Phoenician civilisations The finds show that Bethshan was the centre in Palestine of a great serpent worship

Beit Alfred Anglo Jewish merchant Born to South Africa in 1875 and later started in business as a diamond merchant at Kimberley In 1884 with Julius Wernher he began business in London and the firm became the great house of Wernher, Beit & Co He was associated with Cecil Rhodes in the ownership of the rich De Beers mines and in the affairs of the chartered company Beit endowed a professorship of Colonial History at Oxford and gave much money for other educational purposes He died July 16 1906 His brother, Otto John, (1866 1930) was made a baronet in 1924

Beith Market town of Ayrshire It is 18 m from Glasgow, on the LMS Rly There are some manufactures Pop 6300

Bel Bahvlonian god It refers, like the Phoenician Baal, to the god who was lord of men Another name for Bel was Marduk

Belcher James Fnglish puglilst Born in Bristol, April 17, 1781, he became a butcher After local successes as a fighter he moved to London and became one of the leading fighters of the day, and for some years was champion of England In his later years he was a publican in Scho, London, where he died July 30, 1511

Belfast Capital of Northern Ireland and the capital of the province of Ulster It is

113 m from Dublin and stands just where the River Lagan falls into Belfast Lough Belfast is mainly in Antrim, but some of its suburbs are in Down Its chief buildings include the city hall, the Ulster hall, the cathedral, museum and art gallery Queen's University is the chief educational centre Royal Avenue is the main business thoroughfare and the new law courts are in Chichester St. Belfast has a broadcasting station At Stormont are the buildings erected for the Government of Northern Ireland There

were disturbances in the city in 1933

Belfast is a great seaport. Its docks can accommodate the largest vessels and it has steamer connection with England and other parts. It is served by three railways, the GN of Ireland, the Northern Counties and the Belfast and County Down, and is the terminus of each Shipbuilding and the manufacture of linen are the main industries, others are distilling and bacon curing. There are tobacco factories. Pop. (1926) 415,150 were disturbances in the city in 1933

Belfast is a great seaport Its docks can

Belfort Town of France It stands on Basel and 276 m from Paris Pop 42 511
Between 1870 and 1918 Belfort was the chief town of the territory of Belfort This was the part of the department of Haut Rhin which was left to France when the rest of Alsace was taken away in 1870 It covered 235 sq m
The Gap of Belfort, which the town commands, is a plain 18 m across between the Jura and the Vosges A canal crosses it.

Belfry Part of a church that contains the bells Usually in English churches bells Usually in English churches the part of the tower or steeple, with a room for the bell ringers just beneath the bells. Some of the older belfrics were buildings detached from the church, there being examples of such at Chichester, Evesham, East Bergholt and elsewhere There are some remarkable beltries in Belgium, notably one at Parts of the part Bruges In Italy the beliries, called cam paniles, are often detached buildings as at Florence and Venice

Belga Currency unit of Belgium It is belgas equal to five france and 35 belgas go to the pound sterling. It was introduced in 1926 when the Belgian currency was stabilised and its use is compulsory in foreign exchange transactions

## Belgian Congo see Congo

Belgium Kingdom of Europe Part of the region called the Netherlands, it has a coastline on the North Sea and on the land side it is bounded by the kingdom of the Netherlands, Germany and France Its area is 11,752 sq m and it has a population of 8,159,185 (1931) This is 674 per sq m and makes it the most thickly populated country of Europe It is divided into nine provinces, Antwerp, Brabant, Flanders E. Halpaut, Lifere Limbourg. provinces, Antwerp, Flanders E, Hain Limbourg, Hainaut, Liege Limbourg, d Namur Since 1919 it has also Luxembourg and Namur included the cantons of Eupen and Malmedy Brussels is the capital and the largest city
The towns next in size are Antwerp, Liege
and Ghent Other places full of historic
interest include Bruges, Louvain, Courtral,
Namur and Mons The chief rivers are the Namur and Mons The chief rivers are the Schelde and the Meuse, but neither is wholly Belgian The SE

of the country, where there is a rich coalfield, is a prosperous manufacturing area. Iron and steel are produced and motor cars, artificial silk. glass and lace are manufactured. The rest of the country is mainly an agricultural area, but a large part is still 1 covered with forests, these being chiefly in the Ardennes Wheat, barlev and other cereals are grown, but much land is used for growing beet for sugar, flowers and vegetables mainly for export, and fruit

Belgium is governed by a king and a council of ministers responsible to a parliament of two houses, the Senate and the Chamber of Repre sontatives Senate and the Chamber of Representatives Senators are elected, part of them by direct vote of the people, part by the provincial councils and part by the Senate itself Representatives are chosen by proportional representation and, like the senators, sit for four years Most of the people are Roman Catholics They are divided into Walloons who small Fernat and Eleminar who small the senators. who speak French and Flemings who speak Flemish, and from time to time language differences have troubled the country

Having been ruled by the Dukes of Burgundy and the Kings of Spain, Belgium, then Austria in 1714 In 1814, having been under French rule since 1795, it was united with Holland to form the kingdom of the Netherlands. Holland to form the kingdom of the Netherlands, but by the revolution of 1830 the kingdom of the Belgians was founded, its first king being Leopold of Saxe-Coburg He was succeeded by Leopold II and in 1909 by Albert In 1914 the neutrality of Belgium was violated by Germanv War broke out and, until 1917, the greater part of the country was occupied by the Germans It was recovered at the peace, and in the succeeding years Belgium has made and in the succeeding years Belgium has made great progress industrially King Albert met his death while mountaineering, Feb. 1934, and his son Leopold III succeeded Leopold's queen, Astrid, was killed in a road accident, Aug., 1935

Belgrade Capital of Yugoslavia, pre-viously the capital of Serbia It stands on the south bank of the Danube, where it is joined by the Save Near the river is the lower to the Save Near the river where it is joined by the save Near the river is the lower town, while the upper town with the citadel is on a hill There is a university. National Library and a National Theatre In 1931 an observatory was opened here The city is the trading centre of the country and has many buildings built since the Great War on western models. For the shipping there are western models. For the shipping there are wharves along the river It is also well served by railways Pop (1931), 241,542

In Dec., 1914, the Austrians entered Belgrade, but they were soon ejected In Oct., 1915, it was taken by the Germans who kept

it until the armistice

Belgravia District of London lying 8 of Knightsbridge, E. of Sloane Street and not far from Victoria Station In it are Belgrave Square, from which it takes its name, and Eaton Square, while adjacent streets include Wilton St and Ebury St., all the property of the Duke of Westminster.

Belial Biblical word for the wicked. In this sense it is used in the books of Samuel and 1 Kings S Paul (2 Cor vi) uses it for Satan, and Milton, in Paradise Lost, for the spirit of last the spirit of lust.

Belize Capital of British Honduras A of the Belize River where that stream falls into the Caribbean Sea Its harbour is small, so large vessels anchor outside Mahogany, sugar, etc., are exported. In 1931 the town was devastated by a tornade followed by a tidal devastated by a tornado followed by a tidal wave. The name is a corruption of Wallace Pop (1931), 16,687

Bell Hollow implement made of metal and intended to give forth a ringing noise when struck It usually possesses a clapper or tongue which, when agitated, serves to make the sound Church bells are hung in a beliry or tower, usually a group together, and the ringing or chiming of them in order to produce a harmony is quite an art, being known as campanology Several English bells weigh over 10 tons, while the great bell at Moscow weighed 200 tons Somewhat similar to a peal of church bells is a carrilon in which the bells are played by a keyboard as a piano Other bells are handbells, by which tunes are

played, house or lingle bells, which are agitated by pulling a cord or wire, and bells placed on animals, in order to know their whereabouts, for instance, the bell wether Harness bells were for warning purposes See

BELL METAL, CAMPANOLOGY

Bell Alexander Graham British inventor Born in Edinburgh, March 3, 1847, he was educated there and became a doctor His main concern, however, was phonetics, a subject in which his grandfather and his father had both taken a lively interest. He went to America to become a professor at Boston, his subject being the physiology of the soston, his subject being the physiology of the voice This led, naturally, to the study of sound transmission, and in 1876 he patented an invention which was the nucleus of the telephone Bell died Aug 22, 1922

Bell Gertrude Margaret Lowthian English traveller A daughter of Sir Hugh

A daughter of Sir Hugh Bell, Bart, she belonged to the family that has made the firm of Bell Bros one of the largest concerns in the iron and steel industry of Middlesbrough Educated at Oxford, she of Middlesbrough Educated at Oxford, she travelled a good deal in Arabia and gained an intimate knowledge of that country During the Great War Miss Bell served in the Intelligence Department in Iraq, and from 1917 until her death on June 12, 1926, she was a political officer in Bagdad Her Letters, edited by her stepmother, Lady Bell, were published in 1926

Bell Henry. British inventor Born in Lin-lithgowshire, April 7, 1767, Bell became a millwright and then a shipwright. In 1791 he set up a business in Glasgow, his idea being to build a vessel that could be worked by steam After some vears of hard work he succeeded and his boat, the Comet, was able to travel from Glasgow to Greenock by steam, this event being a landmark in the development of the steamship He died Nov 14, 1830

Bell Robert Anning English artist. Born in London in 1863, he was educated at University College School His work includes illustrating books and designing stained glass, as well as painting pictures In 1918 he was made A R.A and in 1922 R A Bell's pictures are in several public collections and his mosaics in the Houses of Parliament and Westminster Cathedral

Alternative name for the plant called the deadly Belladonna nightshade It is used more particularly for the poison which is extracted from the plant and from which atrophine is prepared Bellaand from which acrophine is prepared Belladonna is employed in medicine as a narcotic
and mydriatic. It is useful in certain internal
complaints, and is most commonly used for
dilating the pupils in certain eve diseases

Bellary City of India In the province
of Madras, it is 300 m from that
city by rail It is an important railway

It is an important railway junction and has some textile manufactures

An enormous 16th century fort commands the city Bellary is the capital of a district. Pop 40,000

Belle Isle Strait and island in the Atlantic The strait between Newfoundland and Labrador, is 85 m long and obout 12 m wide and is on the nearest route between Canada and Europe though, owing to ice, it can only be used in the summer The island, 21 m in circum ference, stands at the entrepress to the contract of the contract o ference, stands at the entrance to the strait.

Another island, about the same size and also named Bello Isle, is in Conception Bay,

Newfoundland

The French Belle Isle is off the const of It covers about 33 sq m and has Brittany 10,000 inhabitants, mostly fishermen and their families It is famous for its grottoes Palais, a small scaport, is the capital In 1759 the English fleet defeated the French fleet near this island, which was in English hands from 1761 to 1765

Bellerophon greek hero He was a Corinth The King of Argolls, wishing to have him killed, sent him to Iobates, King of Lycla, who was requested to bring about his end. Iobates, therefore, sent him to kill Chimaera, a fire breathing monster, but by catching and using Pegasus, the winged horse, Bellerophon slew the monster Iobates made him his successor and married him to his dearth. slew the monster Tobates made him his successor and married him to his daughter A succession of British warships have been

named Bellerophon. One was the vessel which received Napoleon when he gave himself up

in 1815

Bellingham District of London In the borough of Lewis ham, it is 9 m from the city, on the 8 Rly Here are the Lewisham baths Most of the houses have been built by the LOC, which bought the land for housing purposes There is a village in Northumberland called Bellingham

Bellingshausen Fabian Gottlieb Von, Russian explorer Born Sept. 9, 1778, he entered the navy In 1819 he was the leader of an expedition that went to the Antarctic, where he discovered Alexander Land and Peter Land Later he commanded the Russian fleet in the Baltic and was Governor of Kronstadt. Bellings hausen Sea in the Antarctic is named after him He died Jan 13, 1852

Bellini Name of three Venetian painters father and two sons Giacomo or Jacopo Bellini (d. 1468) painted portraits and frescoes. A few of his works survive, but he is better known as the father of Gentile and Giovanni Bellini

Gentile Bellini (1429 1507) painted "The Preaching of S Mark" in Milan and several other works, many of which are in Venice He is well represented in the National Gallery, London, where are his portrait of Mohammed II and an "Adoration of the Magi" He died

If and an "Adoration of the Magi" He died in Venice, Feb 28 1507
Glovanni Bellini (d 1516) has left several very famous pictures one being that of the doge Lorodano in the National Gallery, London where is also "The Agony in the Garden" Other works of his, including "The Agony in the Madonna and Saints," are in Venice He is also notable as being the master of Titian, Tintoretto and Glorgione. Some regard him as the greatest Italian painter of the 15th century He died in Venice, Nov 29, 1516

Bell Metal Hard alloy or bronze used Bell Metal for making bells. It con-

sists of one part tin to three of copper The same alloy with a small admixture of zinc or lead is sometimes used for certain parts of machinery in place of steel, owing to its non corrosive qualities

Belloc Jean Pierre Hilaire English writer Born July 27, 1870, his father was a Frenchman and his mother Irish. He was a Frenchman and his mother Irish.

He was educated at the Oratory School,
Edgbaston, and at Oxford, serving as a conscript in the French army between the two
periods On leaving Oxford, having taken
English nationality, he entered upon a career
as a man of letters, broken by four years
(1906-10) spent in Parliament as Liberal M P
for E Salford

Belloc's literary output is enormous and varied, yet mostly of high quality The charm of his writing is perhaps best seen in his travel books such as The Path to Rome and The Four Men The Bad Child's Book of Beasts and its companion volumes are deservedly popular companion volumes are deservedly popular in works such as The Servile State, he attacks the political life of the day Among historical works are a History of England, Richelleu, and Cranmer In 1931 he published A Conversation with a Cat, in 1934 a study of Charles I, in 1935 Millon and in 1936 The Battle Ground

Bellona Divinity in Roman mythology. The goddess of war, and wife or sister of Mars, she was worshipped at Rome in her temple on the Campus Martius, founded in B c 1296 outside the city gates

Bell Rock See Incheape Rock.

Bells Word used on ships to denote the periods of four hours and each half hour represents one bell There are thus eight bells in each period. A period begins at 12 o'clock, therefore 12 30 is one bell, 1 o'clock is two bells and so until 4 o'clock is reached, when the cycle begins again The name is due to the fact that a bell is rung each half hour

Belmont Town of Cape Province, S Africa It is 50 m from Kimberley and about 35 m from the Orange River It came into notice in 1899 when a British force under Lord Methuen, advancing to relieve Kimberley, was opposed by the Boers entrenched in the hills After a sharp fight, Nov 23, 1899, they were driven away and the advance continued

There is a Belmont in Surrey This is a residential district on the edge of Banstead Downs, 12 m from London on the S Rly.

Belomancy Divination by arrows, below being the Greek word for a dart. It is mentioned in the Bible (Ezekiel xxl.) and was practised by the Greeks forbids it The Koran

Belper Market town and urban district of Derbyshire. It stands on the Derwent, 8 m from Derby, on the LMS Rly Textiles are manufactured and there

143 BENDIGO

Belt Two sea channels of Denmark, Great and Little The Great Belt divides the island of Zealand from Funen and the the island of Zealand from Funen and the Little Belt divides Funen from the mainland The Great Belt is 40 m long and the Little Belt 30 m long Both lead from the Kattegat to the Baltic, the Great Belt being the more direct route Both, however, are difficult, even dangerous, to navigation

Beltane Name of an old pagan festival once observed in many parts of Great Britain and Ireland In ancient times it marked the festivals of fire which were held to celebrate the coming of summer A cake, specially baked, was divided and the pieces used to cast lots The luckless individual who drew a certain piece was shunned and avoided. and it is believed that in remote times the holder was sacrificed The Beltane ceremonies were carried out with songs and dances and the kindling of bonfires through which cattle were driven and the young men leaped Forms of this latter rite continued as late as the early part of the 19th century.

Beluga Cetacean of the dolphin family, also called the white whale It is from 12 to 15 ft in length and almost pure white It is found in the Arctic seas and the gulf of St Lawrence and occasionally off the north coast of Britain The great sturgeon, have is also brown by this pages. huso is also known by this name

Belvedere Part of a building from which a good view can be obtained, also a summer house in a garden The idea and the name are both Italian and belvederes were usually built in the form of a turret with windows on all sides on the top of the main building In the court of the Belvedere at the Vatican is the Apollo Belvedere Belvedere is the name of a district in Kent. It is on the Thames, near Erith, being 14 m from London by the S Rly

Belvoir Castle Seat of the Duke of Rutland It stands on a hill in Leicestershire, about 7 m from Grantham There has been a castle here since about 1100, but the present one only dates from about 1808. It contains some valuable works of art and the cardens are very beautiful Belvoir Hunt was founded in 1750 and is closely associated with the dukes The Lennels are at Belvoir and the country is in Leicestershire and Nottinghamshire.

Bembridge Village on the E coast of the Isle of Wight. There was a scaplane station here during the Great

War Pop 1973

Bembridge beds is a geological term for certain deposits found in the Isle of Wight and Hampshire They are in three layers and in the top one is a band of limestone in which are very interesting remains of insects. They are seen at Colwall and other bays in the west of the island and on the north coast near Osborne

Bemersyde Estate in Bewickshire From the 12th century until modern times it was the residence of the Hais family It stands on the Tweed about 2 m from St Boswells. Earl Haig of Bemersyde took his title from here and in 1921 the estate was presented to him the money baying estate was presented to him, the money having been mised by public subscription

mountain in the British Isles, Ben Macdhu, one of the Cairngorms (4296 ft.), Ben Lawers one of the Carrigorins (4296 ft.), Ben Lawers in Perthshire (3984 ft.) Ben Avon another of the Cairngorms (3843 ft.). Ben Cruachan in Argylishire (3689 ft.), Ben Wyvis in Rossshire (3429 ft.) and Ben Lomond in Stirlingshire (3192 ft.)

Benares City of India It stands on the Ganges in the United Provinces, 400 m from Calcutta A sacred city to the Hindus, it is visited every year by thousands of pilgrims who bathe here in the Ganges There are many temples, notably the golden temple dedicated to Siva and the so-called monkey temple

It has a Hindu university opened in 1916 and does a trade in jewellery, silks and other products of India The Ganges The Ganges is crossed here by the Dufferin bridge, 3500 ft. long Pop (1931), 205 315

The state of Benares is ruled by a maharajah who has a salute of 13 guns His capital is Ramnagar, near Benares

Ramnagar, near Benares The state's area is 870 sq m Pop (1931) 391 272

Renhow John. English seaman Born Benbow John. English seaman Born Arch 10, 1653, his father was a tanner at Shrewsbury. As a boy he went to sea and was in the navy when war broke out with France in 1689. He took part in the naval battles of the war and in 1696 was made a rear admiral Later he communded a flect in the W Indies and there in 1702 he met a French fleet stronger than his own In a running fight of four days Benbow had a leg taken off by a shot He returned to Jamaica and died at Port Royal Nov 4, 1702

Several British warships have been named Benbow. The last was a dreadnought completed in 1914 She carried ten 13 5 in guns. displaced 25,000 tons and was fitted to serve

as a flagship

Bench In its main sense a long seat.

Thus it is used for the seats in In the House of Lords the cross Parliament. benches are seats for independent members. It is also used as a general term for the judges, as opposed to the bar, as the barristers who appear before them are called This is due to the fact that in early days the judges sat on a bench above the floor of the court while those appearing before them were on the floor itself

Bencher

Barrister who has been chosen
a member of the governing
The four inns in London and body of his inn The four inns in London and also the King's Inn in Dublin have benchers, who have certain privileges as to rooms, meals, etc

Bench Mark Mark used It It is a fixed point that serves as a datum line from which other measurements can be made or checked The bench mark of the Ordnance Survey takes the form of a broad arrow Bench marks are also used in tidal observations

Bendigo City of Victoria Australia It toria, and was first called Sandhurst It stands in the centre of the gold mining district and has also an agricultural and general trade. Pop (1931) 33,690

Bendigo English pugilist Born in Not-name was William Thompson One of three Ben Celtic word for a mountain, very soon became Bendigo From 1832 to 1850 he common in Scotland Many peaks in that country have the prefix ben, such including Ben Nevis (4406 ft.) the highest brothers he was nicknamed Abednego, which

BENGAL.

144

Benedicite Canticle of the Christian church It is a song of praise with the refrain "Praise Him and magnify Him for ever In the prayer book of the Church of England it appears as an alternative to the Te Deum at morning prayer, it is also sung in the Roman Catholic and Greek churches

Benedict Saint and founder of the greatest of the monastic orders, the Benedictines He came from Nursia, in Italy, and was educated at Rome For a time he lived a hermit's life and then took charge of a monastery, where, apparently, he was very uncomfortable After this Renedict heren to collect a following way who Benedict began to collect a following, men who shared his ideas He set up 12 monasteries and in 529 founded the one at Monte Cassino which became so famous There the saint died in 543, after he had written his Rule on which monastic life in Western Europe is based

Benedict Name of 15 popes. The first 13, with the possible exception of II and VII, were not very noteworthy Benedict II was canonized and his festival is on May 7 Benedict VII, pope from 974 to 983, did a great deal to help monasticism to get a strong footing in Europe Benedict XIV, an Italian, was Archbishop of Bologna before he became pope in 1740 He reigned until 1758

Benedict XV was born at Genoa, Nov 21, 1854, his family name being Chiesa A fine scholar, he was a secretary at the Vatican before being made Archbishop of Bologna in 1907 In 1914 he was created a cardinal and later in the year he was chosen pope He died Jan 22, 1922, having been pope through the period of the Great War

Benedictine Popular liqueur Green in colour, it was invented by the monks of the Benedictine Monastery at Fécamp, hence its name It is sometimes called Dom because of the inscription D O M Deo optimo maximo, on the label commercially to day at Fécamp It is made

Benedictines Monastic order founded by S Benedict. It dates from 529 when Benedict established a monastery on Monte Cassino In 580 the monastery was sacked and the monks went to Rome whence the order spread throughout Europe The rule is not very strict. The order has always been interested in education and several universities and many schools owe their origin to the efforts of its members. The habit origin to the citorts of its members. The habit is black and the motto, laborare est orare, "to labour is to pray." About A D 600 communities of nuns were established and these soon became very numerous. The Carthusians are a branch of the Benedictines who at one time had it is said, nearly 40,000 houses throughout the world.

In England the first Benedictine was S

In England the first Benedictine was S Augustine who established a Benedictine house at Cantorbury There were 300 house in England at the time of the Reformation To day there are about 700 Benedictine houses in the world, either priories, abbeys or con vents In England there are 3 abbeys, Ample vents In England there are the forth, Downside and Buckfastleigh

Benedictus Song used in the Christian church It is taken from Luke i where Zacharlas, the priest, thanks God for performing His promises In the

with William Booth in his early evangelistic Church of England it is sung after the second work He died Aug 23, 1880 | lesson at morning prayer It begins "Blessed be the Lord God of Israel"

In the Roman Catholic church the bene dictus is the canticle taken from Math xxi and beginning "Blessed is he that cometh in the name of the Lord"

Benefice In the Church of England a property that provides a living for a clergyman or other ecclesiastic A rector and a vicar are both holders of benefices, but a curate is not. Bishops and deans are also beneficed clergy

Beneficiary Person who receives the benefit or income from a property, although he or she is not the legal owner For instance, "A" leaves £5000 in trust for a daughter The legal owners of this sum are the trustees and it is invested in their names, but the daughter is the beneficiary

Benefit of Clergy A privilege formerly tried for offences in the ecclesiastical courts, where their punishment was often negligible As at one time any one who could read could secure this privilege it was greatly abused and was curtailed in the time of Henry II It remained, however, except in cases of treason and other serious crimes, until 1827, when it was formally abolished

was formally abolished

Benes Eduard Czech statesman Born

a lecturer on sociology and economics at

Prague University In 1915 he left his country

and reached Paris, where, with his old teacher,

T G Masaryk, he helped to organise the

Czecho Slovaks into a nation, conducting a

newspaper on behalf of the cause When, in

1919, Czecho Slovakia came into existence,

he was chosen its Foreign Minister, and in

1921 22 he was Premier He was mainly

responsible in 1921 for the Little Entente

between his country Rumania and Yugo

Slavia and was still Foreign Minister in 1932

My War Memories, an English translation of

one of his books, appeared in 1928

Benevento City of Italy It is 31 m from Naples and has some old and remarkable buildings These include a round church dating from the 8th century, the cathedral and the castle The triumphal arch, one of Trajan's, is in an excellent state of preservation and there are remains of the walls Pop 36 962

Benevolence Act of kindness or a gift of any kind made in the spirit of goodwill Historically it has quite another meaning A benevolence is a gift made by a subject to the king, and by pressure or compulsion Edward IV exterted money called benevolences from his subjects, as dld his successors, Richard III and Henry VII, although in 1484 benevolences had been declared illegal James I tried this way of raising money but in the time of Charles I parliament finally stopped it

Benfleet Urban district and watering London, on the LMS Rly It consists of North Benfleet and South Benfleet Pop (1931) 12,091

(1931) 12,091

Bengal Presidency of India. It covers of 47,592,500 Calcutta is the capital other large towns are Howrah and Dacca Most of the people speak Bengall Bengal has been a presidency since 1912, as it had been from 1699 to 1834 At its head is a governor who

is assisted by an executive and a legislative The latter consists of 140 members, council of whom 114 are elected

Bengal Bay of Part of the Indian Ocean, on the E side of India and Burma The Ganges, Brahmaputra, Irrawaddy, Mahanadi and Godavary rivers flow into it There are no good ports on the W, but on the E are Akyab, Moulmein and Rangoon The chief groups of islands are Andaman, Nicobar and Mergui

Benguela Seaport of Angola, W is on Lobito Bay and belongs to Portugal The terminus of a railway that crosses the Continent to Beira, it passes through the Belgian Congo and Rhodesia and is controlled by the Portu-gueso, Belgian and British authorities The final link was opened in 1932

Benin Former kingdom of Africa, now part of Nigorla It takes its name from the Ben, a negro tribe In 1897 the kingdom was invaded by British troops and taken under British protection

Benin is also the name of a river in Nigeria and of a town that stands near it. The town was the capital of the kingdom Pop 15 000 The Bight of Benin is part of the Guli of Guinea It has a coastline of nearly 500 m

Benjamin Jacob's youngest and favourite son The word means "son of my right hand" His mother was Rachel His father showed a special The word His mother affection for him when he sent his ten sons to buy corn in Egypt (Gen xlii), but kept Benjamin at home From him one of the twelve tribes was descended and named

Ben Nevis Highest mountain in the British Isles Situated in Inverness shire, Scotland, it rises to an altitude of 4406 ft above sea-level Its lower rocks are mainly granite, and on its N E side is a precipice of 1500 ft An observatory built here in 1881 was closed in 1905

Benn William Wedgwood British poli-Benn ticlan Born May 10, 1877, he entered Parliament in 1906 as Liberal MP for the Tower Hamlets From 1910-15 he was a Junior Lord of the Treasury He served with the yeomanry and the naval air service in Egypt, Gallipoli and Italy, winning the DS O From 1918-27 he was MP for Leith and in 1929 he was elected for N Aberdeen He was then a member of the Labour party and in 1929 he was made Secretary for India. In 1931 he resigned office and lost his seat in Parliament Parliament

Parliament
Benn's father, Sir John Williams Benn (1850-1922), founded the firm of Benn Bros, publishers of trade papers He was a leading member of the LCC, being its chairman 1904-05, and a Liberril MP, 1892-95 and 1904-10 In 1914 he was made a baronet His eldest son, Sir Ernest John W Benn, became head of Benn Bros, which firm he greatly developed His books include Confessions of a Capitalist, Letters of an Individualist, Account Rendered, 1930, and This Soft Age, 1933 In 1933 also he launched a new "antipolitical" weekly, The Independent

Bennett Enoch Arnold English novelist Shelton, near Hanley, May 27, 1867, and became a law student there Later he moved to London and became a journalist, working as such from 1893 to 1900, part of the time as editor of Woman. In 1898 he published his

first novel, A Man from the North, and in 1902 He made a name with Anna of the Five Towns
He followed this up with A Great Man, The
Old Wives' Tale; and the trilogy Hilda
Lessways, Clayhanger and These Twan Other Successes were Helen of the High Hand, The Card, The Regent and a volume of short stories called The Matador of the Five Towns These books deal with life in the five towns of the Potteries, thinly disguised by the author, and stand as his best work. They portray the conditions there with a vivid fidelity that stamps him as a master of his art. London is mainly the scene of his later works, which, although become of apprinters help. although books of considerable power, lack the vitality of the earlier ones They include The Pretty Lady, Elsie and the Child, Riceyman Sleps, Lord Raingo and The Grand Babylon Hotel

Bennett was also a keen student of the theatre He wrote The Great Adventure, an adaptation of his novel Buried Alive, and other plays, and with E Knoblock was responsible for Milestones and Mr Prohack He wrote a good deal of dramatic criticism and in his later years articles on a variety of subjects for the press He died March 27, 1931 Two stories, Dream of Desliny and Venus Rising from the Sea, were published posthumously in 1932

Bennett James Gordon American journalist. Born in Banffshire, Sept 1, 1795, he went to Canada in 1819 In 1835 he started The New York Herald, which became one of the foremost newspapers in the

Decame one of the foremost newspapers in the United States He died June 1, 1872

His son, also James Gordon Bennett, took control of the paper on his father's death and, in 1875, helped The Daily Telegraph to send Stanley out to find Livingstone In 1887 he established a Paris edition of the Herald Interested in sport and adventure, he presented the Gordon Bennett Cun for hellooning and the Gordon Bennett Cup for ballooning and sent out an expedition to the Arctic He died May 14, 1918

Bennett Richard Bedford Canadian
Bennett Politician Born July 3, 1870,
in New Brunswick, he practised as a lawyer
there In 1897 he moved to Calgary and soon
became a member of the legislature of
Alberta In 1911 he entered the Dominion
House of Commons as a Conservative In
1917 he was Director of National Service
and in 1921 Minister of Justice in the
Coalltion Government In 1926 he was
Minister of Finance, and in 1927 he was chosen
leader of the Conservative party In July 1930, leader of the Conservative party In July 1930, he became Prime Minister, attending the Imperial Conference in London in Oct, 1930 He held office till Oct, 1935, when he became Leader of the Opposition

Bennett Sir William Sterndale English musician He was born in Sheffield, April 13 1816, and in 1826 entered the Royal Academy of Music, London, which produced his first plane concerto in 1833 In 1836 he met Mendelssohn and Schumann in Leipzig In 1849 he helped to establish the Bach Society, and in 1851 he became professor of music at Cambridge He was conductor of the Philharmonic Society, and principal of the Royal College of Music from 1866 until his death Knighted in 1871, he died Feb 1, 1875

Ben Rhydding Inland watering (WR) It stands on the Wharfe, 9 m from Bradford There is a hydropathic establishment have said the place of the place o

Benson Arthur Christopher English
Benson atterwards archbishop, he was born
April 24 1862, and educated at Eton band
Educated between Eton, where he life was
assistant master, 1885 1903, and cambridge, and master, 1885 1903, and cambridge
A graceful write his death June 17, 1925
others, and cessavs and property Pater and confidence of the college of the college of the college with the college of the college windows and poetry. His volumes of the editors of The Correspondence of Queen of the college Windows He was also one of the college Win English |

Penson Edward Frederic. English nove educated at Was born July 24 1867 and controlled in the controlle

Charlotte Bronte

Benson Edward White English prelate
Benson Edward White English prelate
1829, he was educated there and July 14
College, Cambridge, of which he at Trinity
fellow He was ordained and he became a
head of Wellington when that school was
opened in 1859 He lett in that school was
opened in 1859 He lett in 1872 and after a
for Truro in 1877 In 1883 hosen first bishop
of Truro in 1877 In 1883 hosen first bishop
at Hawarden, Oct 11 1896 A man died suddenly
ability and remarkable energy men of great
Two of these are father of three brilliant sons
third, Robert Hugh Benson (1871 1914) was
over
Benson Sir Francis Robert English

Benson Sir Francis Robert actor Born Nov Benson Sir Francis Robert as Son of William Benson, J.P. he was educated the was known as an athlete and an amateur at Winchester and New College Oxford where he was known as an athlete and an amateur assa founded a company of his own as an amateur chief work has been done in Benson's Shakespearcan plays and done in Presenting ford He also set up a school of acting the Maskinghted in 1916 and in 1930 issued his in the work has a school of acting the interpretation of the state of the school of acting the interpretation of the state of the school of acting the interpretation of the school of acting the school of a  $\mathbf{E}_{\mathbf{nglish}}$ 

Bent Grass (Agrostia) Large genus of hundred species grasses containing nearly said and and meadows and flourish in damp poor lawns and and appropriate or little use for damp poor lawns and its given to cats and dogs for medicinal purposes

Bentham Jeremy English author Born at Westminster and 5, 1748, he was educated In 1770 he published A Fragment on Oxford of the Constitution He passed blackstone's theory in writing and study, and left a number of Benzon Resin or gum obtained from the Benzon Resin or gum obtained from the

Works of which the most important is his Introduction to the Principles of Morals and Escleton may be seen in University Collego, denth was celebrated the centenary of his

death was celebrated

Bentham was the great English advocate of
utilitarianism, the aim of politics for him was
the greatest good of the greatest number was
ideas have been most infinential as on them the greatest good of the greatest number His most of the great reforms of the 19th century

most of the great reforms of the 19th century were based

Bentinck Lord George British politiserved in the was born Feb 27, 1802 He served in the army and then 27, 1802 He served in the army and then 27, 1802 He served in the army and then 27, 1802 He served in the army and then 27, 1802 He served in the army and then became private moderate process. The didd Sept 21, 1848 He for King's one of the leading sportsmen Bentinck was one of the leading sportsmen Bentinck was as a patron of the Turf, and a man of the theorem of the was appointed the was Governor of Madras From 1803-07 the first Governor of Madras From 1803-07 the first Governor of Madras From 1803-07 the first Governor general of India Apving Served the first Governor general of India His rule the did in Paris June 17, 1839

Bentiley District of Yorlshire (WR)

Bentley District of Yorkshire (WR)
Doncaster and 158 from London, and from
the LNE Riy In station is Arksey on
was done to the mines and the houses

Dishard Popular Roy

Dishard

was done to the mines and the houses

Bentley Richard, English scholar Born
y Ork Jan 27 the son of a farmer, at Oulton,
t College Cambridge and was ordered to St. John s
made keeper of the royal libraries in 1699 he wrote his possertation on the Episites
which proved the letter piece of scholarship,
he was chosen European reputation in 1700
Cambridge where his overbearing attitude led
to serious troubles with the follows He died
of Horace and Terence and work included edited

Benue River of Africa Rising almost enters Nigeria and, flowing west falls into the Niger at Lokoja It is navigable for small enters Nigeria and, flowing west falls into the Craft beyond Yola Which with Garua is on its mong The Nigers chief tributary it is 800

Benzene Colourless but inflammable gas manufacture It guid a a by product of colour of dyes and in gas for lighting purposes It is solvent of fats and resins. In compounds It is solvent of a number of substances called aromatic compounds It is sometimes called benzol

Benzine Volatile inflammable liquid ob word is sometimed from petroleum. The continuing and as a solvent for resin articles of not-be confused with bouzene resin. It should be resin or rum obtained from the

and other islands of the E Indies It is pleasant to the taste and smell and is used in making perfumes and incense It is also useful in medicine

Benzoic acid is made from benzoin but on a much larger scale from toluene It is used in medicine and in the making of colours

Beowulf Hero of an Anglo Saxon poem Therein we are told how he killed the monster Grendel and another monster, Grendel's mother, and finally a dragon In the end he was himself killed The poem was written in the 7th and 8th century in Scandinavia and is invaluable because of the details it gives about the daily lives of our Teutonic ancestors The MSS is in the British Museum

Berber White race living in N Africa the inhabitants of Morocco and Tripoll and they are also found in Algeria and Tunis The Kabyles and the Riffs of Morocco are Berbers, as are the Tuaress who live in the Sahara They are related to the Egyptians Many of them have accepted Mohammedanism

and they number about a million.

Berber Town of the Anglo-Egyptian Sudan It stands on the Nile, 20 m from its junction with the Atbara, and is a station on the railway from Wadi Haifa to Khartoum At one time it was a great centre of the standard of the st for caravans and it still has a considerable trade Pop 10,000 Berber is also the name of a province in the Sudan

Beresford Baron British sailor and Lord Charles Beresford Born Nov 10, 1846, Charles William de la Poer Beresford, was the second son of the 4th Marquess of Waterford Whilst only a lieutenant he accompanied King Edward VII, when Prince of Wales, on his visit to India in 1875-76 Later he gained distinction at the bombardment of Alexandria, where he commanded the Condor In the Nile Expedition of 1824 he condor In the Nile Expedition of 1824 he commanded the Condor In the Nile Expedition of 1824 he commanded the Condor In the Nile Expedition of 1824 he commanded the Condor In the Nile Expedition of 1824 he commanded the Condor In the Nile Expedition of 1824 he commanded the Condor In the Nile Expedition of 1824 he condor tion of 1884 he commanded the naval brigade During the years of peace he held a series of During the years of peace he held a series of commands, including the Mediterranean Fleet, 1905-07 and the Channel Fleet, 1903-05, and 1907 09 He was made an admiral in 1906 Beresford was also a politician From 1874-80 he was M P for Waterford and from 1885-89 for E Marylebone From 1897-1900 he sat for York from 1909-03 for E Woolwigh and for York, from 1902-03 for E Woolwich and from 1910-16 for Portsmouth In 1885-86 he was a Lord of the Admiralty and in and out of Parliament he was a leading and sometimes pugnacious speaker on naval matters In 1916 he was made a peer and he died Sept. 6, 1919

Beresford Viscount British soldier, Born at Waterford, Oct 21 1768, he entered the army in 1785, and took part in the recapture of Capetown in 1806 and in other campaigns, including the capture of Buenos Ayres in 1808 Later he served in the campaigns in Portugal, and in 1809 was given command of the Portuguese army He was made a Knight of the Bath for his services at Busaco in 1810, and defeated Soult in the following year He was created a baron in 1814, and a viscount in 1823 He died Jan 8, 1854, without issue, and the title became extinct His estates passed to his stepson, Alexander James Bertsford Hope (1820 87), who was prominent as a leader of the High Church Party For nearly 20 years he was MP. for Cambridge University and he helped to found The Saturday Review

The Salurday Review

It is Bergamot Cultivated variety of citrus sed in Bergamot Its rind contains an essential oil which is extracted and used in perfumery The bergamot pear is a small brown skinned juicy pear, the flavour of which somewhat resembles bergamot.

> City and seaport of Norway Bergen City and seaport of Norway It stands on a bay, 190 m from Siderable trade and is a fishing and tourist The city has some manufactures Pop centre (1930) 98,303

> Bergerac Savinien Cyrano de French He was born in Périgord in 1619 and entered the army He wrote several plays including Agrippine, brought him fame, but more remarkable is his History of the States of the Moon and the Sun, only published after his death in 1655 Cyrano had a very large nose which was the cause of many duels, and this characteristic was brought out in Rostand's play, Cyrano de Bergerac, which had a remarkable success when produced in Paris in 1897, and in London in 1919

> Bergson Henri. French philosopher. Born in Paris, Oct 18, 1859, he came of a Jewish family In 1900 he became professor of philosophy in the College de France His philosophy, which has exercised a good deal of influence, is laid down in his books He believes in empiricism, that knowledge comes from experience, and that consciousness, or what is actually known, is the central problem of metaphysics

> Beri-Beri Disease frequent in the hot countries of Asia, Africa and America It is very devastating and causes great weakness, leading often to paralysis It sometimes attacks sailors Scientists have devoted much attention to it and it is now believed that it is due to the cating of rice which has been polished, with resultant deficiency of vitamin B

> Bering Sea Part of the N Pacific of the N Pacific Decan It is about 1000 m from N to S and 1500 m from E to W Both the sea and the strait of the same name were discovered in 1648 by Deshnet, a Russian, but were present in 1648 by Deshnet, a Russian, but were named in honour of Vitus Bering, a Danish navigator The sea is open only from June to November, ice floes causing obstruction during the rest of the year, and fogs are almost

> Soon after 1867, when Alaska was sold to the United States, disputes arose between the United States, disputes arose between American and Canadian fishermen about the right to capture seals. The Americans contended they could regulate the captures as they wished, the Canadians that they had a prescriptive right to share in it. The matter was referred to arbitration and the court in Paris found for Canada and Great Britain. The Canadian sealers were compensated and rules made for the future of the industry.

> Berkeley Market town of Gloucester-above the Severn 144 m from London, and has a station on the GW Riv Its castle is one of the most perfect remaining in England In it Edward II was murdered. Around the town is the vale of Berkeley, famous for its cheeses. The town gives its name to a hunt. Pop 790

> The title of Earl of Berkeley has been borne by the Berkeley family since 1679 and the barony since 1295 At one time the earl owned valuable property in London, including

BERKELEY

Berkeley Square, but this was sold to Sir Marcus Samuel in 1919 this was sold to Sir Marcus Samuel in 1919 this was sold to Sir Marcus Samuel in 1919 this was sold to Sir Marcus Samuel in 1919 this was sold to Sir Marcus Samuel in 1919 this was sold to Sir Marcus Samuel in 1919 this was sold to Sir Marcus Samuel in 1919 this was sold to Sir Marcus Samuel in 1919 this was sold to Sir Marcus Samuel in 1919 this was sold to Sir Marcus Samuel Samu University of California Pop (1930) 82,109

Berkeley George Irish philosopher 12, 1685, he went to Trinity College, Dublin, became a fellow and was ordained Herein to noblemen, and in 1724 became Dean of Londonderry From 1728 to 1731 he was indeed Jan 1753 By his writings, notably the Treatist of the Principles of Human I to noblemen, and the Principles of Human I to noblemen, and the Principles of Human I to noblemen, after which in 1734, he was made died Jan 1753 By his writings, notably the Treatist of the Principles of Human I to Renault of the Principles of Human I to Berkhampstead Name of two In Berkhampstead Name of two In Berkhampstead I heret a polaces in Hert a principle of the Principles of the Principles of the Renault influenced philosophical thoughts.

Berkhampstead Name of two fordshire Great Berkhampstead is an urban district, 28 m from London on the L M S River Bulbourne and the Grand Union Canal pass by it There is a public school here Originally a grammar school define Union Canal pass by it There is a public school here Originally a grammar school dating from 1541 it was refounded in 1841 and is now a public school for 500 boys There are a few Little Berkhampstead is the centre of a rural district. This word is sometimes snelt.

This word is sometimes Berkhamsted

Berklamsted Wolfe Berkshife Inland county of England by the Thames and covers 724 sq m Partly by the Thames and covers 724 sq m Partly of the Inland covers 724 sq m Partly border and other downs elsewhere The Vale windsor with Horse is in the county as is the White Horse is in the county as is Kennet and the Loddon The rivers are the Kennet and the Loddon The Kennet and Avon Canal trosses the county which is also is the county town and LNE Klys Reading is the county town and LNE Klys Reading is the county town of Newbury, Wallingford Valington Maidenhead, Newbury, Wallingford Valington Oxford Parliament. It is in the diocess of Oxford Pop (1931) 214,181 the diocess of the family of Howard since 1626 It is now, The title of Earl of Berkshire has been held as it has been since 1745, united with the Grandotte of Weles and Known as Princess is

earldom of Suitolk.

The Berkshire Regiment, known as Princess
Charlotte of Wales s, consists of the old 49th

The depot is at Reading

Berim Capital of Germany and the Berim Capital of Germany and the Spree, 84 m from Stettin on the Baltic and 180 m from Hamburg on the North Sea A great railway centre, it has also the sea. The manufacturing industries are water commerce with the rest of Germany and the sea. The manufacturing industries are many and various, but it is chiefly known as a miscopity town and the many and various, but it is chiefly known as a commercial centre a university town and the seat of government. Before 1871 town and the made the Capital of Germany when it was covers 341 sq m, and has over 4,024 286 inhabitants

having Just conquered Prussia at Jena.

Beriloz Hector French composer Born at the Conservatoire in Paris and in 1830 won the Grand Prix du Rome and in 1830 won the Grand Prix du Rome in 1842 he the next few years his visits to London and other capitals made him very popular He his setting for Faust are perhaps his best works, and Benedict, are noteworthy

Borough of London,

Bermondsey Borough of London, county It is on the south side of the river and in it are the south end of the Tower Bridge and Tooley St. The centre of the leather have are tannaries and the tachnical and Tooley St. The centre of the leather industry, here are tanneries and the technical college of the trade in Tower Bridge Road. The borough, which includes Rotherhite, some of the inhabitants There is a university settlement in Farrougha St. some of the inhabitants There is a university settlement in Farncombe St. Pop (1931)

Bermuda Grass Kind of found in warm countries, including the southern part of Europe and the USA It is also found in India where it is called Dool Other names are with erect branches which flower

with erect branches which flower with erect branches which flower with erect branches which flower with erect branches which flower are percentaged by the Hermitian of islands in mide at lands. They are nearly about 360, but only about 20 are inhabited a bout 360, but only about 20 are inhabited a flower area is about 19; sq m The largest is a flower and at 13 sq m The largest is a the capital. St. George is the old capital and the capital and an executive Council, with a cleated House of Representatives of 36 The security and an exact the second flower and an islands are a popular holiday resort for hard base There are good harbours and docks and other accommodation for warships have been built pop (1931) 27,789

Bernadotte Name of the royal family

Bernadotte Name of the royal family needed to the throne as Charles XV The present King is his descendant

Unter den Linden is the best known throughfare and the Tiergarten the chief of several parks. In it are the Zoological Gardens and near by the buildings of the Reichstag those of the buildings of the Reichstag those of the university Berlin is a broadcasting those of the university Berlin is a broadcasting at Tempelhof tstation, the terminus of representatives of the Great Powers held as a theologian and was prominent in preaching as a theologian and was prominent in preaching in the responsibility of the great reputation in the conditions and the Tiergarten the chief of the Ring is his descendant.

Bernard French saint known as Bernard fundy about 109 Clairvaux Born in Burlamity In 1113 he belonged to a noble of the Congress of the terminus and the Tiergarten the chief of the Ring is his descendant.

Bernard French saint known as Bernard fundy in 1113 he belonged to a noble of the International Action of Clairvaux Born in Burlamity In 1113 he belonged to a noble of the Congress of the terminus and the Tiergarten the chief of the Ring is his descendant.

Bernard French saint known as Bernard in 1113 he belonged to a noble of the International Action of Clairvaux Born in Burlamity In 1113 he belonged to a noble of the International Action of Clairvaux Born in Burlamity In 1113 he belonged to a noble of the Congress of the Great Powers held and the Tiergarten the chief of Clairvaux Born in Burlamity In 1113 he belonged to a noble of the International Action of Clairvaux Born in Burlamity In 1113 he belonged to a noble of the Internation of Clairvaux Born in Burlamity In 1115 became head of one at Clairvaux Born in Burlamity In 1115 became head of one at Clairvaux Born in Burlamity In 1115 became head of one at Clairvaux Born in Burlamity In 1115 head of the Internation of International Action of Clairvaux Born in Burlamity In 1115 head on the Internation of International Action of International

the Second Crusade, in assisting the Knights ist Templars and in condemning the teaching of pro-Abelard He founded a reformed branch of Fre the Cistercians, who are often called the Bernardines In 1173 he was canonised

Berne City of Switzerland, capital of the confederation and of the Canton of Berne It stands on the Aar, which almost makes a circle round it, and which is here crossed by several bridges There is a university, and two old towers, remains of the city's defences, still stand The name means "bear," and in the Bear's Den bears are kept by the city authorities Owing to its position several international conferences have met here One was the conference at which in 1887, the Berne Convention, which settled the question of international copyright, was signed Pop (1920) 111,783

Bernese Oberland Part of the which lie in the Canton of Berne, Switzerland, and are noted for their magnificent scenery Some of the highest peaks include the Finsteraarhorn (14,026 ft), the Aletschhorn (13,723 ft), and the Wetterhorn (12,166 ft) Grindelwald is one of the loveliest valleys and Meiringen is another tourist resort. One of the best known lakes is Interlaken, near the Jungfrau

Bernhardi Friedrich Von German 1849, the son of a diplomatist, he entered the army in 1869 and rose to be a general He became known in 1912 by his book which was translated into English as Germany and the Next War and was much read just before the Great War It was a statement of the gospel of force and the right of Germany to make war in order to secure her aims In 1921 Bernhardi wrote a volume on Germany's struggle between 1914 and 1918 He died July 10, 1930

Bernhardt Sarah French actress Born Bernhardt in Paris, Oct 24, 1844, her mother was German and her father French After a course at the Conservatoire, she appeared on the stage in Paris in 1862, abandoning her baptismal name of Rosine for Sarah About 1869 she began to make a reputation and for the next 30 years she was the greatest tragle actress in the world with a magnetic personality, a wonderful voice and other gifts she plaved with remarkable success the leading role in the great tragic dramas In 1899 she opened her own theatre in Paris and she frequently acted in London, New York and elsewhere In 1915 she lost a leg, but she continued to act almost until her death, March 26, 1923 A volume of Memours appeared in 1907

Bersaglieri Name given to the "sharp-shooters" of the Italian Army The first units were raised in 1836, and commanded by La Marmora. They were specially trained in rapid marching, shooting and scouting They wear a black slouch hat, with drooping cock's feathers Since 1928 they have been composed entirely of cyclist regiments

Bertha English queen She was a Frankbert, King of Kent, about 5'0 and was instrumental in converting him to Christianity with the result that religion spread widely among the Anglo Saxons She was canonised and her day is kept on July 4

Berthelot Pierre Eugene Marcellin French politician and scient-

ist Born in Paris, Oct. 29, 1827, he became professor of chemistry at the College de France in 1861 In 1885-87, having been Inspector General of Higher Education since 1876, he was Minister of Education and in 1895-96 he was Foreign Minister In 1900 he became a member of the Academy He died March 18, 1907 He was one of the founders of the science of thermo-chemistry

Berthollet Claud Louis, Comte de French scientist Born Dec 9, 1748, he became an authority on dves and dveing and was appointed to an important position in Paris in connection with that industry His chemical discoveries, which were concerned with saltpetre, chlorine, ammonia and other substances, were of great value to industry He was made a senator and count by Napoleon and he died Nov 6, 1822 He wrote a standard book on dyes

Bertillon Alphonse French criminohe was the son of Louis Adolphe Bertillon
(1821-1883), professor at the school of anthropology in Paris Alphonse entered the police
service and became head of the identification
department in Paris He was responsible for
the system of identification which is named
after him This rests upon the theory that the
bony parts of the human body do not change
in size after adult life is reached By accurate
measurements of these, therefore, criminals can
be identified A witness in the Dreyfus case,
Bertillon died Feb 13, 1914

Bervie Burgh, seaport and market town called Inverberrie It stands at the mouth of the River Bervie, 13 m. from Montrose and 88 m from Edinburgh, on the L N E Rly There are flax mills and chemical works The first machine in Scotland for spinning yarn was established here in 1788 Pop (1931) 1032

Berwickshire County of Scotland. In the SE of the country it is divided from England by the Tweed It is 457 sq m in area and includes much of the Lammermuir Hills, some points exceeding 1500 ft in height In the centre is the fertile region called the Merse, and there is about 20 m of coastline The Tweed with its tributaries and the Eye are the chief rivers Duns is the county town, and other places are Coldstream, Eyemouth and Lauder The county unites with Haddingtonshire to send a member to Parliament It contains much of historical interest, including Fast and other border castles Pop (1931) 36,601

Berwick -upon-Tweed Borough, seaport and market town of Northumberland It is at the mouth of the Tweed, 67 m from Newcastle, on the LNE Rly Spittal and Tweedmouth are part of the borough The main industry is shipping Three bridges cross the river here, one having been opened in 1928 Berwick owes its historic importance to its position between England and Scotland, and it was repeatedly taken by one and then the other For a time it was a neutral town, but in 1885 it was definitely attached to Northumberland It was made a county of itself in 1836 Pop (1931) 12,299

Berwyn Mountains of Wales This rango of heights borders Merionethshire, Montgomeryshire and Denbigashire The chief elevation is Moelsoch (2716 feet)

Beryl Silicate of aluminium and beryllum found in granite and other

crystalline rocks It is usually green but some now a province of Rumania, and has an area times vellow, white or pink The better of 17,146 sq m Pop 2,344,000 has an area emeralds or aquamarines The ordinary beryl Bessborough Earl of Irish title held since 1739 by the

Beryllium Metal used, on account of its of aeroplanes and internal combustion engines of aeroplanes and internal combustion engines
It occurs chiefly in the form of the mineral
beryl which is found in many parts of the
world, and is propared by an electrolytic
process In colour it is white and it can be
process In colour it is white and it can be
times as clastic as aluminium and twenty five
times as clastic as steel Its melting point is
1280 deg C It resists the action of the air
and does not easily tarnish. Atomic wt 9 02

Besançon City of France It stands Dilon Besançon was long a free city and at one time was the capital of Franche Comté It one dide was the capital of ranche counts its now a centre of the watch-making industry and has other manufactures. Pop 58 500

Besant Annie English theosophist.
Besant Born Oct 1, 1847, she was a
daughter of W P Wood In 1867, she married
Rev Irank Besant a brother of Sir Walter
years About 1874 Mrs Besant became a
secularist and worked with Charles Bradlaugh
In 1889 she accepted theosophy as taught by
In 1889 she accepted theosophy as taught by
In India where she associated herself with the
extreme nationalists Her writings and speeches
caused her arrest in 1917 and in 1918 she was
president of the national congress She died in president of the national congress She died in September 1933

September 1933

Besant sir Walter English author Born to the was educated at King's College London, and was later a scholar of Christ's College. London, Cambridge His carlier works were written in bably best known being The Golden Butterfly and Ready Money Morthboy After the death novel The Chaplan of the Fleet, he gives an interesting description of the old Fleet prison of Gibcon he writes and in The Chaplan of the Fleet marriages, and in The Children of Men dealing with the life of workers in the Island of London was instrumental in the Island of London was instrumental in the Island of the People's Palace at Mille End instituting the movement which resulted in the building of the People's Palace at Mile End Beside fiction his work included biographies and volumes of criticism, and his later years were devoted to a survey of London, which was the Society of Authors He was knighted in 1895 and died June 9, 1901

Bessarabia District of Rumania In the cast of the country, it lies between the Dniester, the Pruth and the Black Sca, and is a fertile and in the main a are Bender and Akkerman Bessarabia was a Turkish possession from 1503, but much of it was taken by Russia in 1822 and in 1875 it was taken by the country of the company of the borders was taken by Russia in 1820 and in 1875 it was taken by Russia in 1820 and in 1875 it was taken by Russia in 1820 on the borders was taken by Russia was overthrown, Bessar Turkish possession from 1503, but much of it was taken by Russia in 1822 and in 1875 it was formally given to Russia During tae Great In 1917 when Russia was overthrown, Bessar abia became a republic, but was soon forced to ask help from Rumania This ended in the timlon of the two countries which was recognised by the Supreme Council in 1920 It is

Bessborough Earl of Irlah title held since 1739 by the family of Ponsonby Bessborough is a small place in Co Kilkenny, and in 1721 a landowner, then William Ponsonby, was made Baron Bessearl's eldest son is called Viscount Duncannon, and in 1739 he was made an earl The earl's eldest son is called Viscount Duncannon, M P for Dover, 1913 20 Later he became chairman of several undertakings In 1931 he was appointed Governor General of Canada

he was appointed Governor General of Canada

Bessemer Sir Henry English inventor

Anthony Bessemer, a Huguenot, he assisted

Anthony Bessemer, a Huguenot, he assisted

Heritordshire Soon they moved to London

for invention

He made bronze powder by a

for invention

He made bronze powder by a

forgery, lead penells from waste and other

articles When the Crimean War began he

forgery, lead penells from waste and when

articles When the Crimean for he began he

his ideas were ignored or rejected in England

ments was the production of a superior kind

ments was the production of a superior kind

fellways and other purposes where great

articles in Figure 1 for the result of his experi

of steel which made by his process was called

railways and other purposes where great

artenith and resisting power were essential.

Refel N114 Seed or nut, contained in

Betel Nut Seed or nut, contained in fruit of the pinang or botel palm (area catchu).

The truit is as large age have a great from the second s The fruit is as large as a hen s egg. The nut is sliced sprinkled with lime and then rolled in sliced sprinkled with time and then rolled in the leaf of the betel pepper and chewed by natives in India and the Malay Peninsular where it grows It is a digestive stimulant, and the use of it gives a red stain to the teeth

Bethany Village of Palestine The name means the "house of dates". The village is on the southern slope of the Mount of Olives, about 2 m from Jerusalem

Bethe! Place in Palestine, also called Beitin It is about 11 m from and the place is the site of Jacob s dream and the spot where Abraham set up his tent. It is

Bethesda Urban district of Caernaryon and took its name from the Nonconformlat ment is in the great slate quarries at Penrhyn.

Bethesda Pool of Spot within the wall of Jerusalem near S Stephon's gate The name means house of morey and it was here that Christ healed the

Beth-Horon Two villages in Palestine.
Beth-Horon Beth Horon the upper
101 m NW of Jerusalem It was one of the
boundaries of the land given to the sons of
Ephraim and was the scene of a great slaughter
of the Amorites when pursued by Joshua

The Knights of Befhlehem was a military order that existed in the 16th century to defend Lemnos against the Turks

Bethlehem Borough of Pennsylvania, USA It stands on the Lehigh River, 56 m. from Philadolphia and is a centre of the iron and steel industry At South Bethlehem are the vast works of the Bethlehem Steel Corporation. It is also a great centre of the Moravians and has a university, Lehigh Pop (1930) 57,892

Bethlehemites Roman Catholic Founded in 1660 in Guatemala, its members undertook to nurse the sick and teach the young It spread among the peoples of South and Gentral America, also Mexico, and existed until suppressed in 1620 There was an order of the same name in England in the 14th century.

Bethlen count Stephen Hungarian politician Born Oct. 8, 1874, he belonged to an old and rich family of Trunsylvania In 1901 he was elected to the diet, or parliament, of Hungarv and there for nearly 20 years he was one of the leaders of the opposition After the Great War he assisted in driving Bela Kun from the country and in restoring order after the short Bolshevist regime In 1921 he became Prime Minister, and for the next ten vears he was responsible for the direction of affairs He reformed the finances, the electoral system and the land laws, and foiled the attempts of the ex-Emperor Charles to recover the throne In 1931 he resigned office

Bethmann-Hollweg Theobald politician Born Sept. 29, 1856 the son of a professor, he entered the Civil Service in 1879 In 1901 he was made President of Brandenburg and in 1907 Vice President of the Ministry of Prussia In 1909 he was chosen to succeed Bülow as Imperial Chancellor, a post he held in 1914 He conducted the negotiations that preceded the Great War, defending the action of his country as necessary to its existence He held office until July, 1917, when he resigned In 1919 he published his Memours, again trying to justify Germany, and on Jan 2, 1921, he died

Bethnal Green Borough of London, county It is on the north side of the Thames, and to the east of the city Among its industries is the manufacture of furniture In Cambridge Road is a museum, a branch of the Victoria and Albert. Pop (1931) 108,178

Bethsaida Village of Palestine Situated on the western shore of the Sea of Galilee, it was the birthplace of Andrew, Peter and Philip Now only a heap of ruins marks the spot. Another Bethsalda, at the other end of the Sea, is the place where the 5000 were fed by Christ

Bethune Town of France It is 24 m from Arras in a coal mining region There are some manufacturing industries In the Great War Bethune was an important outpost for the allied armies and there was much fighting around it Pop 16,000

Betony Plant of the genus betonica The purple or wood betony is found in England and clsewhere in Europe It has purple flowers and leaves with deep, founded teeth It was formerly used in medicine

Betterton Thomas English actor The son of a servant of Charles I, he was born at Tothill St, Westminster, about 1635 He left the business of book-selling and went on the stage, winning great success, despite his ungainly figure, low voice and other handicaps He was associated with Mrs Bracegirdle in conducting a theatre in Lincoln's Inn Fields, and later in the Haymarket, London He died on April 28, 1710, and was buried in Westminster Abbey

Betting Risking money on a race or other event of which the issue is uncertain In horse racing it is done chiefly by the agency of bookmakers who follow the odds on or against each particular horse as a stockbroker does the prices of shares It is a very claborate and highly organised business, and in great races such as the Derby, bettang starts months beforehand and the odds vary from day to day until the race is run Tattersalls in London is the recognised headquartors of betting

Betting was long illegal in Great Britain Nevertheless, it was very prevalent, as it is to-day, with bookmakers everwhere and starting prices and other odds given regularly in the newspapers. In 1926 it was legalised by the introduction of a tax on betting, and of a system of licences for bookmakers. In 1928 the tax was reduced and in 1929 it was abolished, but bookmakers still pay £10 a year for a licence. The extra charge for their telephones was abolished in 1930.

Since 1923 betting by means of a totalisator has also been legal in England, and to day much betting is done in this way. In 1933 the totalisators on greyhound racing courses were made illegal. See Sweepstake

Bettws-y-Coed Urban district and pleasure resort of Caernarvonshire. It stands where the Linwgy falls into the Conway, in the midst of some of the most beautiful scenery in Wales Near are the famous Swallow Falls It is 238 m from London, on the LMS Riy Pop (1931) 912.

Betty William Henry West English actor Born at Shrewsbury, Sept 13, 1791, he appeared on the stage in Belfast when only a boy In 1804, having made a reputation in Ireland and Scotland, he went to London There his success as a boy actor was instantaneous and remarkable. He was called the young Roselus and once, in 1805, the House of Commons adjourned to see him play Hamlet In 1808 he left the stage and spent three years at Cambridge University He then resumed his career as an actor, but his popularity did not return. He died Aug 24, 1874

Beverley Borough and market town in the East Riding of Yorkshire It stands near the river Hull, 8 m from the city of Hull and 29 from York, on the L N.E Rly It has some manufactures and a trade in agricultural produce. Its minster dedicated to S John, is one of the finest churches in England Races are held near the town, which has an aerodrome Pop (1931) 14,011

Bewdley stands on the Severn 3 m. from Kidderminster and 137 from London, on the GW Rly There are several industries including rope making Pop (1931) 2868

Bewick Thomas English engraver Born Aug 12, 1753, at a village in Northumberland, he was apprenticed to an engraver Later, after gaining experience in

London, he entered into partnership with his resort for British visitors. The town has casinos employer. By careful attention to detail he and the sands and bathing are excellent, made a reputation and his woodcuts are to day. Pop. 22,955 much valued by collectors Between 1784 and 1822 he prepared the illustrations for a number of books, including A History of British Birds and an edition of Aesop's Fables Bowick's brother, John Bewick (1760 95), and his son, Robert Elliot Bewick (1788 1849), were also engravers

Bexhill Borough and watering place of Sussex It is 5 m from Hastings, but the two almost form one continuous frontage to the sea The old town lies inland, on the coast is Bexhill-on Sea, of modern growth The former has an interesting Norman church, at the latter are the pavilion and other attractions for visitors. Bexhill is 71 m from London, on the S Rly Pop (1931) 21,229

Bey Turkish dignity The title is given to superior officers of the army, and to notable foreigners The meaning is "ford," and

the title comes between pasha and effendi

Bezique Card game It is played by two cards from which all the cards up to and including the sixes have been removed Eight cards are dealt to each player, the seventeenth is turned up for a trump and the rest form the stock from which the two hands are replenished The players then play for tricks, the object of each being to secure aces and tens, and certain combinations,  $\epsilon g$ , king and queen which must be declared.

Bhang Indian drug It is the native name for hashish, a narcotte which is smoled or taken internally. It produces in its victims voluptuous visions followed by very heavy sleep, but it invariably leads to montal disorder.

Bhel Indian fruit. When not quite ripe it has a pronounced astringent quality. and the root, bark and leaves of the tree have a similar property Besides being useful in medicine, the tree furnishes yellow dye, per-ume and a cement.

Bhopal State of India In the centre of India, it covers 6900 sq m Its uler, the nawab, is entitled to a salute of 19 uns, he is descended from the Afghan chief he founded the state in 1723 He succeeded a mother, the begum, who abdicated in 1920, ad died in May, 1930 Bhopal is also the name of an agency that includes the native state of an agency Pop 730 000

Pop 736 006

The capital is the town of Bhopal This has a fort, a palace and various government buildings Pop 66,000

Bhutan Independent state of India It is in the Himalayan region of the North of Bengal and is very mountainous It covers 18,000 sq m, and its rivers are tributaries of the Brahmaputra The in habitants, the Bhutaus, speak a Tibetan dialect and belong nominally to the Buddhist faith The ruler of the country is the maharajah and by a treaty made in 1910 the British and by a treaty made in 1010 the British Government is consulted on all foreign affairs The people cultivate the soil for rice and other

Bibi Eibat Name of a rich oil field in the Baku district. It lies to the south of the town, and the industry is controlled by a company subordinate to the Soviet Republic of Azerbeljan

Bible The books of holy scripture Bible The books of holy scripture They comprise 39 Hebrew works in the Old Testament and 27 Greek works in the New Testament besides 14 bools of the Apocrypha. The Old Testament contains the law, the prophets and others collectively entitled hagtographa. The New Testament contains four rospels, apostolic acts, 21 epistles, mostly Paulline, and the book of the Royelation Hebrew MSS of the 3rd 4th century are extant. The Septuagint is a Greek version of the Hebrew books prepared at Alexandria by Jewish scholars of the 3rd 2nd century B of The Vulgate is a Latin version of the Bible prepared by Jerome in the 4th century A.D. The first complete English translation of the Vulgate was by John Wyellife, about 1380, the first translation out of the original tongues of the New Testament and the Pentateuch was by William Tyndale, 1525 34 Miles Coverdale published the first complete English Bible in 1535

1535 The

The English translation or Authorised Version, which has been in general use for 300 vears and is remarkable for the beauty and dignity of its language, was prepared in the time of James I and issued in 1611 This was rovised towards the end of the 19th century, but the newer or revised version has by no means supplanted the authorised one The Bible has also been translated into almost every other language of the world
The Bible contains 1189 chapters in all, 929 in the Old Testament, and 260 in the New Testament. There are 23,214 verses in the Old Testament, and 7959 in the New Testament The total number of words in the whole Bible is said to be 774 680

During 1930 the number of volumes sold by the British and Foreign Bible Society was 12,175,292 Of those 1,096 013 were complete Bibles 1,283,301 were New Testaments and the remainder were portions of the Scriptures The Bible is printed by the society in 655 languages

languages

Bible Christians Religious denomination of Methodist origin Founded in 1815 by William O'Bryan a Cornish Methodist lay preacher whose followers were sometimes called Bryanites they preached a fervent evangelism throughout England and had adherents in Canada, Australasia and China In 1907 their 32 500 members 218 ministers and 652 chapels were merged in the United Methodist Church These figures included 1400 converts in China Incidentally 15 000 members 159 ministers, and 600 chapels were merged in unions abroad.

Government is consulted on all foreign affairs
The people cultivate the soil for rice and other
crops and there are large forests Pop 300,000

Biafra Eight of Bay of Africa Into this
great curve of the west coast of
Africa flow several rivers including the Niger
New and Old Calabar, Cameroon and Gaboon
The bay contains the island of Fernando Po
Biarritz Town and watering place of
Biscay, 5 m from Bayonne, and is a favourite

Bible Society
Association for dis
sominating a know
ledge of holv scripture
The most influential is
the British and Foreign Bible Society, founded
in London in 1804 Fundamental rules under
tale to circulate without comment the English
Bible authorised or revised omitting the
Apocrypha and when translating to use
mouth words for controversial topics Of
translations into 655 languages and dialects,
licentum words for controversial topics Of
translations into 655 languages and dialects,
licentum words for controversial topics Of
translations into 655 languages and dialects,
licentum words for controversial topics Of
translations into 655 languages and dialects,
licentum words for controversial topics Of
translations into 655 languages and dialects,
licentum words for controversial topics of

3000 auxiliaries and branches assist in collecting

substantial funds

Bibliography Art or practice of writing about books The bibliographer may concern himself with form or matter In the one case he exagines and collates books or MSS by way of recording variant editions, questions of authorship, and details of printing, type, binding, or size In the other he furnishes the inquirer with re-

Bibury Village of Gloucestershire It is cester, and is one of the most picturesque of the Cotswold villages Arlington Row, some cottages here, is the property of the National

Trust

Bicarbonate Salt in which two equiva-lents of carbonic acid, H-CO, are combined with one equivalent of base In popular practice the term denotes bicarbonate of soda or baking soda, NaHCO, as distinct from carbonate of soda or washing soda, a hydrated form of Na<sub>2</sub>CO<sub>2</sub> In medicine it is an antacid and stomachic

Biceps Two-headed muscle In human anatomy one pair flexes the forearms upon the upper arms Each, passing in front of an arm, is attached by two tendons to its shoulder blade and inserted into the radius of the forearm A corresponding pair, passing behind the thighs, flexes the legs upon them

Bicester Market town and urban district of Oxfordshire It is 12 m from Oxford and 53 from London, on the L MS and G W Rlys. There are some industries, and the town is a hunting centre, giving its name to the Bicester Hunt Cattle fairs are held There are remains of an abbey Pop (1931) 3109

Bickley Residental district of Kent. It is 12 m from London by the Rly and 14 m. from Bromley

Bicycle Machine with two wheels used for riding It is supposed to have been invented by a German, and its early name was velocipede The first bicycle appeared in England about 1866 It had one large and one small wheel, and was worked by pedals Soon the safety bicycle, with two wheels of almost equal size was introduced Bicycling Bicycling became extremely popular and a great industry grew up at Coventry and elsewhere The introduction of rubber tyres inflated with air added to the rider's comfort. In Great Britain all bieveles must carry a white light if ridden after certain hours in the evening Since 1928 they have been compelled to carry also a red light or reflector at the rear at all times

Bidding-Prayer An exhortation to prayer, which directly informs the congregation on the object for which the prayer is to be said, and ends with the Lord's Prayer It is used in England in cathedrals, Inns of Court and at University

Sermons Biddle John "Fat " Father " Biddle Unitarianism Born at Wotton-under-Edge, Gloucestershire, in 1615, he published Tucirc Questions and Arguments against the delty of the Holy Spirit, in 1645, and later Confession of Faith touching the Holy Trinily, for both of which he was in-prisoned He was banished to the Scilly Isles for three years, returned and taught and preached quietly, but came to London, after the Restoration, was arrested and fined heavily, and died in a debtors' prison in 1662 her" of English Born at Wottonthe Restoration, was arrested and fined heavily, and died in a debtors' prison in 1662

Biddulph Urban district of Stafford-ton, on the LMS Riv It is a coal mining centre Pop (1931) 8346

Bideford Borough seaport and market town of Devonshire It stands on the estuary of the Torridge, about 4 m from the sea, being 220 m from London, on the S Rly The bridge across the Torridge that unites the two parts of the town is remarkable for its length, over 700 ft It was restored in the 20th century Pop (1931) 8782

Biene Auguste Van Anglo-Dutch musician He displayed his 'cello playing and acting to great effect in sentimental playlets very pleasing to the general public, a general favourite being a solo called "The Broken Melody" He died Jan 23, 1913

Bienne Lake and town of Switzerland The lake is about 20 m from Berne, adjoining the Jura Mts It is nearly 10 m long and 3 wide The rivers Thiele and

Suza flow into it

The town stands at the north end of the lake on the River Suza Its industries include the making of watches Pop 36,800

(Lat bis twice, annus a year) Plant which lives for two Biennial seasons only Sown in the first season, it flowers and dies in the second Canterbury bells, coreopsis and mulleins are examples of bien-By using hothouse methods it is possible to make a biennial flower in the same season as it is grown Cabbages and beet are biennials

Bigamy Offence of marrying a second wife or a second husband when the other spouse is alive In English law this is a crime, and the maximum sentence is imprisonment for seven years with hard labour If, however, a man or woman marries again when for seven years nothing has been heard of the wife or husband, no punishment will follow unless it is proved that the person charged with the crime had reason to believe that he or she was alive at the time of the second marriage

Biggleswade Market town and urban district of Bedfordshire, on the Great North Road It stands on

shire, on the Great North Road It stands on the Ivel, 11 m from Bedford and 41 from London, on the L N E Rly, and is an agricultural centre Pop (1931) 5844

Bihar Town of India One of the sacred cities of the Buddhists, it is in Bengal, 38 m from Patna In olden times the capital of a kingdom, it was one of the first places to adopt Buddhism, and there are ruins of some of the faith's oldest buildings Pop 36,700

The Province of Bihar and Orissa was formed out of Bengal in 1912 It covers 83 161 sa m

out of Bengal in 1912 It covers 83 161 sq m and consists of three divisions, Bihar, Orissa and Chota Nagpur Patna is the capital It is watered by the Ganges, and served by the E Indian Rly The province is under a E Indian Rly The province is under a governor and a legislative council of 103 members Attached to it are the feudatory states of Chota Nagpur and Orissa Pop (1931) 37,590,336

Bikaner State of India It is in Rajputana and covers 23 315 sq m Its ruler is a maharciah who is entitled to a salute of 10 guns He served in the Great War and represented India at the Peace Conference of 1919 Sandy and unfertile, the country is noted for its camels, and its camel corps served against the Turks in Egypt in 1916 Pop Pop 660,000

Bikaner, the capital, is a walled town con inding some Jain monasteries. The chief building is the palace of the maharajah, and there are some manufactures. Pop. 69,400

Bilbao the mountactures Pop 69,400

Bilbao the mouth of the river Nervion, which flows into the Bay of Biscay 350 m from Madrid The most important Spanish port on this coast, it exports iron ore from the mines in the vicinity The river separates the old town from the new one There is a spacious horbour with wet and dry docks and other accommodation for shipping Pop (1931) 186 758

Bilbao gives its name to a kind of sword, as it was once famous for its sword blades From These this comes the word bilbaos or irons these were used for offenders on board ship, the ankles being fastened together by them. They are mentioned in *Hamlet* and were used in the British Navy until about 1700

Bilberry Species of shrub of the heath order (vaccinium myrtillus) It is a bush, with many angular branches. Its green tinged rosy flowers produce a dark blue edible berry, also called the whortleberry, and in Scotland the blaeberry It grows through out Britain and in N Europe, Asia and arrestless.

America
Bile Thick, bitter fluid secreted continuously by the liver It is discharged
intermittently into the small intestine, or temintermittently into the gall bladder. It is a intermittently into the small intestine, or temporarily stored in the gall bladder. It is complex fluid—golden yellow in man, greenish in vegetable feeders—containing in solution enits, acids pigments and a substance called cholesterol. The normal daily secretion exceeds one pint. Should obstruction prevent flow to the intestine bile is absorbed into the blood, the pigments are deposited in the blood, the pigments are deposited in the tissues, and faundice supervenes

Bilge Term denoting the breadth of a ships bottom viewed from inside. The inner skin over the bilge is the floor and the bilge ends more or less where the sides turn upward. The water which collects upon the ships bottom, called bilge water, tends to become foul, and is removed by blige pumps.

Bill In business an account of any kind In Dill addition to a simple bill given by a trader there are certain special kinds of bill A bill of lading which must be stamped with a bill of stamp, is a statement of goods sent by ship It constitutes the title to the goods named, and can be transferred from one person to another A bill of sight is a statement about goods which are imported In law a bill as otherworst of the offence with which a person about goods which are imported is a statement of the offence with which a person is charged. This is given to the grand jury and is charged. This the accused goes to trial. This if they accept it the accused goes to trial This is called a true bill In Scotland the bill chamber is part of the court of session

In Parliament a bill is any measure that is introduced When it has passed through all its stages and becomes law it is called an Act. Bills are divided into public and private, the latter dealing with such matters as railways

Billericay Town of Essex It is 5 m from Brentwood and 24 from London, on the L N E Rly The old church of S Mary Magdalene is notable and there is a grammar school

small oblong upright, allusive to the precedir when it occurs in the arms of the Ironmonge Company of London In Romanesque an Norman architecture it denotes an ornament moulding simulating short logs regular spaced in single or double rows along a sun moulding

Billeting Method of lodging soldiers an public and private houses It was practised i very early times, and was much abused in the time of James I and Charles I In 1628 the Petition of Right declared it illegal, but private and the standard from the well about 1628. retation of right declared it niegal, but prival individuals suffered from it until about 1681 From that time until the Great War billetin was confined to innleepers who were paid it the accommodation given During the Great War, under an Act passed in 1907 soldiers the Territorial Force were billeted in privat houses, but payment was made In 1917 power was given by Parliament to the authorities the billet civilians. Who were energed in work is billet civilians, who were engaged in work of national importance, in private houses

national importance, in private houses

Billiards Indoor game The ordinar game is played on a table tha measures 12 ft by 6 ft. 14 in. The implement used are cues and three balls, two white an one red. It is usually played by two persons Each has one white ball and his aim is to cannon, or hit the two other balls in succession or to go into one of the six pockets that arround the table after striking one of the othe balls. He can also score by driving the red ball or his opponents ball, into a pocket. It can also be played by four persons, two against two. A player continues to play until he fails the score, his total being called a break. The score is three points for a pocket off the red, two points for a cannon or a pocket off the white three points for pocketing the red and two for pocketing the white.

There are other games of billiards, one being promited of thicked.

There are other games of billiards, one being pyramids at which a number can play, each having his own ball of a distinctive colour Tho game is controlled by the Billiard Association, Cecil Chambers Strand, London W C and there are championships for both amateurs and professionals

mateurs and professionals

Billingham Urban district of Durham

It stands on the Tees
nearly opposite Middlesbrough and is on the
L.N.E. Rly During the Great War the
government had large factories here. These are
now part of the great works of Imperia
Chemical Industries which makes chemicals o
various kinds here. Shipbuilding is another
industry. Pop. (1931) 17,972

Billingsgate London fish market It northern end of London Bridge and dates from 1699 The present building was opened in 1877 The market belongs to the Corporation of the City of London

Billiton Island in the Dutch East and Borneo it is ovoid in shape, is 55 m long and contains 1872 sq m Its highest peak is 1670 ft. It has more than 80 tin mines and also supplies iron and coal Basketry, copra sago timber and tortolses are exported Pop 73,409

London, on the L N E RIy The old church of S Mary Magdalene is notable and there is a grammar school

Billet Log of firewood From this primary meaning further uses of the word have developed In metallurgy it denotes a gold ingot or a steel bar It is the heraldic term designating a bearing formed of a certain time, or on demand The person who

receives the bill, if he wants the money, asks a bank or a financial house to discount the bill, 1 c, to give him the money less a small amount for interest. If the bank or firm think the accepter of the bill is sound they will do this Bills of Exchange must be stamped. If payable on demand the stamp is only 2d. In other cases inland bills pay up to 1s for the first £100 and another is for each £100 or part of £100. On foreign bills the stamp is 6d for each £100

Bill of Rights Act of Parliament passed in the throne was being offered to William and Marv In it are stated the rights of the English people which James had violated. It states expressly that the sovereign cannot raise money without consent of Parliament, and that no Roman Catholic can succeed to the throne

Bill of Sale Legal document by which personal property is transferred from one person to another It is usually done in order to give security for money borrowed the security being furniture or other personal possessions. A bill must be signed by witnesses and registered in the law courts within seven days. It must be for more than £30, and must be stamped on the same scale as other converances of property. It is no longer necessary, as it was at one time, to publish the particulars in The London Gazette

Bilsthorpe Village of Nottinghamshire, in Sherwood Forest In 1929 a coal mine was opened here and

In 1929 a coal inme was opened here and 400 houses built for the miners.

Bilston Market town and urban district Wolverhampton, on the GW Riv In the Black Country, its chief industries are connected with the iron and steel industries. A coarse pottery is made here, as are grindstones. Pop (1931) 31.248

nected with the iron and steel maustries a coarse pottery is made here, as are grindstones. Pop (1931) 31,248

Bimetallism Name given to a mone tary system in which both gold and silver are used as standards of value To day all countries have only one standard usually gold. If bimetallism were introduced both metals would be coined freely and there would be a definite ratio between them. Towards the end of the 19th century there was a strong agratation, chiefly in the United States, for bimetallism, but later it died down. The idea was revived in a somewhat different form during the economic crisis of 1931-52. Its introduction would greatly increase the value of silver.

Bindweed Popular name for species of twining herbs, principally of the convolvulus order. The small bindweed, convolvulus arcersis with I in trumpet shaped flowers, is an agricultural pest. The greater, C (calystegia) sepium, has flowers closing at night. Both are widely distributed in temperate regions. Black bindweed, polygonum convolvulus, is of another order.

Bingham Market town of Nottinghamshire It is 8 m from Nottingham on the LNE Rly Pop 1576.

Bingley Urban district of Yorkshire Aire, 5 m from Bradford, on the LMS Rly Its industries are those of the Bradford area, the making of woollens, etc. Pop (1931)

Binnacle Case mounted on shipboard on breast high pedestal

It is generally in front of the steering apparatus and steersman. It serves to display a nautical compass, and for reading the compass card at night a binnacle lamp is fitted beneath the hood Warships usually carry a pair of steering binnacles in front of the steersman

Binocular Instrument for assisting both eyes In its simplest form a pair of spectacles, it may be a telescope, microscope or stereoscope

Binyon Robert Laurence English poet Born at Lancaster, Aug 10, 1869, a son of Rev B Binyon, he was educated at S Paul's School, London, and at Trimty College, Oxford, where he won the Newdigate Prize for English verse In 1893 he became an assistant in the British Museum and in 1909 he was made assistant keeper of the department of prints and drawings In addition to several volumes of poems, including IVar Poems, 1919, Binyon has written some plays and edited catalogues of drawings in the British Museum He is an authority on William Blake. In 1932 he was made a Companion of Honour

Bio-Chemistry Study of the chemical aspects of animal and plant physiology The term denotes those departments of science which were previously called physiological and agricultural chemistry. The more highly specialised researches of recent years have attacked such problems as the plant synthesis of the carbon-compounds, the molecular constitution of chlorophyll and proteins, and the breaking-down of them and of fats by the catalytic action of enzymes, the oxidation of foodstuffs, the co-ordination of mechanisms by the chemical messengers called hormones, the significance of colloids, and the effect upon growth and nutrition of the accessory factors called vitamins

Biography (Greek bos, life) Book that deals with a person's life If written by himself or herself it is an autobiography By common consent Boswell's Life of Johnson is the most famous biography ever written in spite of its lack of form. Other notable biographies are Southey's Life of Nelson Morley's Life of Gladstone and Winston Churchill's Life of Lord Randolph Churchill Lives of most of the celebrities of the 19th century have been written, but these are usually far too long and too laudatory Lytton Strachov's Life of Queen Pictoria, which set a new fashion in biography, is an exception being thoroughly critical

The biographies of famous men by Plutarch are perhaps the most famous of their kind Another collection is Walton's Luxes Collections of lives written by various writers mainly as works of reference exist. One of the best is The Dictionary of National Bio graphy and its supplements. This is confined to British personalities, but there is in existence, although now out of date, a Biographie Universale. An American Dictionary of National Biography was planned after the Great War, and by 1932 the second volume had appeared

Biology Science of life and living things Biology has a wide scope, covering not only the form and formations of animals and plants, but also the philosophical problems of the origin and relationship between different species

In so vast a subject, biology falls naturally

with plants and zoology the science of animal life. The study of the form and structure of an organism, whether plant or animal, is known as morphology, and this is done, not only by naked eye or microscopic examination but also by dissection (anatomy). Further, the study of the functions comes under the heading of physiology, the problems of reproduction under embryology, and the life of the past embodied in fossil remains under palaeon tology. Many other phases of biology are so extensive in their scope that they are regarded as separate sciences, so that the student of biology is compelled sooner or later to specialise in one or other of these subjects.

| Molly tree, mistletoe, or distaff thistle. A artificial substitute is made with flour stare mixed with other adhesives

| Bittd of Paradise Family of birc gorgeous male plumage during the breeding season. Allied to the crows, their 50 specific realization. Australia.

| Bittd of the Roman British station of Ambic ganna Situated 4 m E of Greenhead, Cumbe land, it is the largest fort on Hadrian's Wal with six grated remparts enclosing 54 acres. in one or other of these subjects

Biplane Aeroplane with two pairs of the other Other forms are the monoplane and the triplane See Aeroplane

B1rch Genus of trees or shrubs of the cupuliferous order (betula) The British white birch, B alba, grows to 40 or 50 ft. high, and forms immense forests in Russia its close grained wood is much used for furniture and bark for tanning The Canadlan black birch, B lenia, grows to 60 or 70 ft high The Canadlan paper birch, B papyracea, furnishes material for bark canoes The alpine birch, B nana, is a bush

Canoes The alpine birch, B nana, is a bush Birchington In the isle of Thanet, it is 2 m from Margate and has become a popular resort. It is 71 m from London, on the S Rly Pop 3500

Bird Aves ranks in the animal kingdom between mammals and reptiles They are warm-blooded, with four-chambered hearts, toothless, and hatch their young from eggs containing albumen and food yolk in calcareous shells The fore limbs are modified as wings Among existing birds there are two divisions. Those with ratt like breast bones, the Ratitae, which are terrestrial and flightless, comprise the ostrich, rhea, cassowary, emu, kiwi, and the recently extinct moa. The remainder, with keeled breast-bones, the Carinatae, have been assembled into four regions with 14 orders with keeled breast-bones, the Carinatae, have been assembled into four regions with 14 orders and 11,000 species All have wings adapted for flight except the penguiss, whose wings are transformed into rowing paddles. They culminate, in the great passerine order, with the true singing birds, which embrace nearly helf the whole feathered kingdom Char acteristic of birds are the migratory instinct and that which dictates the protection of the

acteristic of birds are the migratory instinct and that which dictates the protection of the young by the building of nests. To day in Great Britain a great deal is done to protect bird life Cruelty to captive or domestic birds is punishable by law Cruelty to wild birds is also an offence and there is a Wild Birds Protection Act which forbids the shooting or snaring of certain birds during certain seasons

certain seasons

Bird sanctuaries are places set apart for ld birds There are many such in England, wild birds There are many such in England, one being in Hyde Park, London and a committee looks after this and others in the royal parks Other sanctuaries are at Blakenev Point and Cley on the Norfolk coast marshes There is also a Society for the Protection of Birds at 82 Victoria St., London, S W 1

Birdlime Adhesive substance used for substance used for substance used for substance is substance used for substance used for

with six grated ramparts enclosing 51 acre The charlot ruts on one threshold are sti clear An inscribed slab, referring to th Dacian cohort, portrays the Balkan scimitar

Bird's Eye Name for various flower with central spots or eyer. The mealy primula, with its vellow centrac purple flowers, is bird's eye primrose, the germander speedwell, with bright blue flowers is called bird's eye, so is corn adonis, presented the collection of ferably called pheasants eye Herb rober is red bird's eye It denotes also cut-tobacc Herb rober containing sections of mottled stalks

Birdwood Sir William Riddell Britis soldier Born Sept 13 1865, he was a member of a family closed associated with India. Educated at Clifto associated with India. Educated at Clifto and Sandhurst, he entered the army in 1883 and with the Bengal Lancers served on the Indian frontier. He was in S. Africa, 1899 1902, and later was military secretary to Lor Kitchener in India. Between 1912 and the Great War he was Quartermaster General in India and military secretary to the Government. In 1915, at the head of the Australian corps, he went to Egypt and later he led his unit in Gallipoli and France in some of the hardest fighting of the war. For a short time in 1918 Birdwood commanded the 6th Army and from 1920 30 he was in India, first at the nn 1918 Birdwood commanded the 5th Army and from 1920 30 he was in India, first at the head of the northern army and from 1922 as commander-in-chief In 1919 he was made a baronet and in 1925 a field marshal In 1930, although not a Cambridge man he was appointed Master of Peterhouse

Biretta four cornered head-covering worn by Roman Catholic ecclesiastics Since the 17th century it has had a cardboard frame covered with cloth or sllk, three of four raised ridges, and sometimes a knob of tassel It is white for the pope, red for cardinals, purple for bishops, and black for the general clergy. clergy

Birkbeck George English philanthro pist Born at Settle, Jan 10, 1776, he studied in Edinburgh and became a doctor For three years (1801 04) he was professor at the Andersonian Institution, Glasgow, but most of his later life was passed in London where he practised as a doctor and pushed forward various philanthropic schemes

He died there Dec 1, 1841
Birkbeck was the founder of the movement that led to the establishment of the Mechanics Institution in Glasgow, and then in other large towns He also helped to found the college named after him the Birkbeck. This is part of the University of London with buildings in Bream's Bulldings, Chancery

which failed in 1911—Its liabilities were nearly £11,000,000, but 16s—9d—in the £ was returned to the shareholders and depositors

Birkenhead Seaport, borough and market town of Cheshire It stands on the estuary of the Mersey opposite Liverpool, with which it is connected by a bunnel and ferry boats. It is 194 m from London and can be reached by both the G W and L MS lines. The chief industries are shipping and shipbuilding. For the shipping there are large docks, covering nearly 200 acres and fitted with huge warehouses. They belong to the Mersey Docks and Harbour Board Cammell, Laird & Co., and other large firms have shipbuilding yards here. Birkenhead Park is one of the most famous rugby football clubs in England. Pop. (1931) 147,946

Birkenhead British troopship She was sent with about 500 soldiers to South Africa where a war with the Kafflrs was in progress When nearly there, she struck a rock Whilst the ship sank the soldiers stood in order on the deck, so as to give time for the women and children to be put into the boats Most of the troops were drowned The event took place off Cape Agulhas on Feb 25, 1852

Birkenhead Earl of British pollat Birkenhead, July 12, 1872, Frederick Edwin Smith went to school there and to Wadham College, Oxford There he had a most successful career, becoming a fellow of Merton College and a lecturer He was called to the bar and, having established himself as an advocate, was made a KC in 1908 In 1906 Smith was elected Unionist MP for a Liverpool division and soon made a reputation as a debater In 1915 he became solicitor general in the Coalition Government and in 1916 attorney-general From 1919 to 1922 he was lord chancellor and from 1924 to 1928 secretary for India under Mr Baldwin In 1928 he left politics to take up several directorships He was made a baron in 1919, and Earl of Birkenhead in 1924 He died, Sept 30, 1930, leaving a son, till then known as Viscount Furneaux, and two daughters The elder of these, Lady Eleanor Smith won repute by her novels, Red Wagon, Flamence and others

Birkenhead was largely responsible for the important laws affecting real property passed in 1922 and 1925, while some of his judgments in the House of Lords are masterpleces of clear reasoning In 1922 he was chosen high steward of Oxford University

Birkett William Norman English lawyer 1883, he passed a few years in business and then went to Cambridge, where he was president of the union in 1913 he became a barrister and in 1921 a KC in 1923 he entered Parliament as Liberal MP for East Nottingham Birkett was defeated at the election of 1924, but regained his seat in 1929, only to lose it in 1931

Birmingham City of, England, after the country It is chiefly in Warwickshire, but extensions have taken it into parts of Worcestershire and it has now an area of 68 sq m It includes Aston Manor, once a separate borough, Edgbaston, Handsworth, Yardley, King's Norton, Moseley, Erdungton and other areas It is 113 m from London and is served by the LMS and GW Rlys It is also the centre of a network of canals

The chief churches are the cathedral (S Philip's), the Roman Catholic cathedral, S Martin's and the Central Hall of the Weslevans Secular buildings include a group for public purposes in the centre of the city, city hall, council house, art gallery, museum and library A new civic centre is planned. The hall of memory is the city's war memorial. There are many open spaces, including Aston Park altogether nearly 3000 acres. The university grew out of Mason College which in its turn was an outcome of Queen's College, founded in 1828. Most of the university buildings are at Edgbaston.

The industries of Birmingham are mainly associated with metals Almost every kind of metal is worked here, the products including locomotives, motor vehicles, railway carriages, jewellery, guns, tools, hardware, glassware, plated and enamel goods and a great variety of other articles Pop (1931) 1,002,413

Birmingham George A Pseudonym of James Owen Hannay Born July 16, 1865, the son of a clergyman, he was educated at Halleybury and Trinity College, Dublin He was ordained in 1888, and from 1892 to 1913 was rector of Westport, Co Mavo From 1922-24 he was chaplain in Budapest, and in 1924 he was made rector of Mells, Somerset Canon Hannay made a reputation with his novels of Irish life, with their humorous and almost impossible plots Such are, Spanish Gold The Simplins Plot, The Lost Tribes, Lady Bountful, Found Money, Goodly Pearls and Angel's Adventure (1933) He has also written plays, notably, General John Regan

Birnam Village of Perthshire On the Tay, 15 m from Perth, it is reached by the LMS Rly It is visited by tourists, and is chiefly known for its supposed connection with Macbeth

Birrell Augustine British writer and politician The son of a Baptist minister, he was born in Liverpool, Jan 19, 1850 He became a fellow of Trinity Hall, Cambridge, a barrister and professor of law at University College, London In 1899-1900 he was Liberal M P for West Fife, and later sat for N Bristol, 1906-18 From 1905-07 he was president of the Board of Education, and from 1907-16 secretary for Ireland. As an essayist, however, Birrell was in the front rank In 1884, and again in 1887 he published his delightful Obiter Dicta, which were followed at intervals by other volumes These include lives of Charlotte Bronte and Andrew Marvell and in 1930 Et Cetera, a volume of reflections He died in Nov , 1933

Birstall Urban district and market town of Yorkshire (WR), 7 m from Leeds, on the LMS Rly It is an industrial area with textile mills and coal mines Pop (1931), 7205

Birth Act of bringing forth young By English law a child is born alive even if it only breathes for a few seconds This is sometimes a matter of importance as it may affect the right to inherit property under a will or settlement Midwives must be registered before they can attend cases of childbirth

In Great Britain all births must be registered by the father or another relative and falling that by the doctor or nurse. This is done at the offices of the registrar of births, marriages and deaths from whom a certificate can be obtained These certificates, which are often needed by adults for purposes of insurance can be obtained at any time from the registrar of a charged House, London A small fee

or at Soulerset House, London A sman lee is charged is charged is charged is charged in Most civilised countries, from figures obtained by the registrars prepare a birth rate, is statement of the number of births for every the figures of the number of births for every show that over a period of 40 years the figures about 17 in 1928 it was 17 2 for Great Britain and Northern Ireland In other countries, in the tendency continues In Great Fritain is effect on the number of the people in Infant mortality but this cannot operate in Infant mortality but this cannot operate in to late marriages but much more to prudential occasions. much longer The fall in the birth rate is due to late marriages but much more to prudential considerations which find expression in the property of birth control and property of the property

BIRTH-CONTROL Individual control of birth by artificial means In recent years, the ideal of quality in population rather than quantity, has become general, and birth control usually by artificial contraceptive methods, has been a kenly discussed subject and subject psychology, religion and conomics. Dr Marie Stopes is its chief exponent A medical committee has recommended that no married Marie Stopes is its chief exponent. A medical committee has recommended that no married person should be bindered from obtaining church denounces all such practices as defin

Birthright Benefit or privilege to which one is entitled by birth estate or tille or the right of inheriting an under a free constitution Specifically it denotes the classic example of which is Esau Right or District of Durcham Right or District or District or Durcham Right or District or Dist

Birtley District of Durham It is 5 m Great War a huge factory for making ammuni

BISCAY Bay of European inlet of the Allantic Occan Between Ushant to Spain Officer and the north coast of France and the north coast of Spain Officer and the north coast of Market Spain Officer and the north coast to 50 m off Spain, with a maximum depth dicts of wind and tide and 15,600 ft. Conference of the Allantic Spain, with a maximum depth officer of wind and tide and 15,600 ft. Conference of the Allantic Spain, with a maximum depth officer of wind and tide and Atlantic Spain. The home of the official in several Christian in the bay the conference of the official in several Christian in the bay the conference of the official in several Christian in the bay the conference of the official in several Christian in the bay the conference of the conference of

often occasion violent storms in the bay

Bishop High official in several Christian churches. There are bishops in the Anglican Roman Catholic and Greek Church, in fact the presence of bishops in control of the presence of bishops in the Lagrangian control of Lagr of Large of the former are diocesan bishops and of the various diocesan bishops. The former are the heads of the various dioceses into which the country did diocesan bishop takes his title rassistants. A lent, as his signature of the diocesan bishops and ent, as his signature of the diocesan bishops of Lords and range or its Latin equivalust in the House of Lords and parable tween by the king on the advice of the prime minister, and the discontinuous discounts and barons. A bishop is appointed by the king on the advice of the prime minister, and the cathedral chapter being attracts winter residents from France and

only a formality After appointment he is consecrated by the archibishop and other bishops Suffragan bishops have neither names from a place in the diocese in Rishon before the annual Rishon Before the Rishon Ris

Bishop before the surname
In the Roman Catholic Church bishops are
also in charge of dioceses and many of them
are assisted by coadjutors The appointment

are assisted by coadjutors The appointment of all bishops must be approved by the Pope In non-established episcopal churches in communion with the Church of England, such as those in Wales Ireland, Canada, Australia representative bodies There are also hishops etc bishops are appointed by synods or other representative bodies. There are also bishops in China and Africa. In all coiscopal country dioceses, as confirmations ordinations and consecrations.

BISHOP Isabella English traveller Born, Oct 15, 1832 her father was a clearly been to America, but her real adventures only went to America, but her real adventures only her journeys in Asia in 1876 she other journeys in Asia in 1877 and the countries visited included Japan, medical man John In 1881 she married a wrote several books on her travels and was Geographical Society

Geographical Society.

B1shop Auckland Market town and Durham It is on the Wear, 11 m from Durham on the LNE Rly and is the control of the residence of the Bishops of Durham It dates mainly from the 17th century and has a

mining district. Here is Auckland Castle the residence of the Bishops of Durham It dates mainly from the 17th century and has a beautiful chapel and a fine gateway of earlie Bishop's Castle Borough and It date Pop (1931) 12 209 market town of Endoward Castle Borough and The Bishops of Hereford had a castle here pop (1931) 1352

Bishop's Ring Name applied to a pop (1931) 1352

Bishop's Ring Name applied to a form the sun It is caused by diffication in the air First observed at Honolulu or in the air First observed at Honolulu or three years afterward

Bishop Stortford Market and urb triet of Hertfordshire on the River Stort, 14 m Hertford and 30 from London on the River Stort, 14 m maiting is carried on Pop (1931) 9509

Bishop's Waltham Village of Hampshire It. is 9 m from Winchester on the S RI3 The Ninchester had here a castle, of which some remain It was once a market town

There is a desert railway southelsewhere ward to Touggourt, and a short line westward

to Tolga Pop 9000

Bisley Village of Surrey It is near Brookreached by the S Rly This belongs to the National Rifle Association, and here a meeting is held every year Prizes are offered for rifle, pistol and revolver shooting, the chief competition being for the King's Prize

Bismarck Prince German statesman Born April 1, 1815 Otto Eduard Leopold Bismarck was educated at Göttingen, entered the civil service of Prussia, and in 1852 was sent to Frankfort to represent his country at the diet there He remained there until 1859, and then went on diplomatic work to St. Petersburg and Paris In 1862 he was selected as chief minister to the King of Prussia, William I Together the two were responsible for the policy that led, through the crushing of Austria in 1866 and of France in 1870 to the formation of the Games. in 1870, to the formation of the German Empire Of this Bismarck was the first chancellor and he held the position throughout the reigns of William and Frederick In 1890, soon after the accession of William II, he was replaced by another chancellor. replaced by another chancellor In 1871 Bismarck, till then a count, was made a prince, and in 1890 Duke of Lauenburg He died July 30, 1898

Bismarck was a great European figure, especially in 1878, when he presided over the Congress of Berlin Known as the man of blood and iron, he allowed neither sentiment nor scruple to stand in the way of his aims At home he was a determined reformer and Germany's industries benefited from his policy of protection Bismarck's Reminiscences appeared in 1919-20

Bismarck Archipelago Group cific Islands N and N E of Papua (New Guinea) They were named after the Iron Chancellor a German protectorate was declared Mecklenburg, New Hanover, the Admiralty Islands, and some coastal islands The names Islands, and some coastal islands. The names of the first two have been changed to New Britain and New Ireland. The islands were taken from Germany by the Australians in 1914 and are governed by Australia under mandate from the League of Nations. They cover nearly 16,000 sq m and have about 143,000 inhabitants. Rabaul is the capital

Bismuth Metallic element Its symbol is Bi atomic weight, 208 It is brittle, reddish-white, having a metallic lustre and almost cubical crystalline texture, melting at 268° C. It is chiefly found native, in metalliferous veins associated with silver and cobalt ores, in Savony and Czechoslovakia, besides Bolivia and Cornwall It forms alloys with lead and tin which, as in type metal and fusible metal, melt at low temperatures. A typical solder contains bismuth 1, lead 5, tin 3

Bison Animal of the ox family There are two kinds, the European and the American Its characteristics include a large hump on the shoulders, an enormous mane and a heavy beard At one time there were enormous herds of bisons in Europe and N. America but it is now nearly eviting except N America, but it is now nearly extinct except in Sweden and the United States where it is

because it contains a day intercalated every fourth year in February by the Julian calendar This was called bissext, because the sixth day before the March calends, that following Feb 24, was reckoned twice

Bissing Montz Ferdinand von German soldier Born, Jan 30, 1844, he entered the army in 1865, and took part in the wars against Austria (1866) and France (1870-71) In Sept 1914, being then a general, he was appointed governor general of Belgium which the Governor bed introverse. which the Germans had just overrun This post he retained until his death, April 18, 1917.

Bite Wound made by the teeth of a living creature It may be lacerated or punctured, and, as such teeth are often foul, suppuration may ensue If bacterial infection is present in wolf or dog bite hydro-phobia may supervene. The bite of some phobia may supervene The bite of some snakes is innocuous, but certain species, such as vipers and cobras, possess venom-secreting tangs which may cause death Some invertebrate animals puncture with mouth-parts, as spiders, mosquitoes and fleas

Trealment—insect Bites and Bee and Wasp

Stings are relieved by the application of dilute ammonia or a paste of blearbonate of soda and sal volatile Mosquito Bites should be washed with weak lysol or iodine and water before applying the ammonia

Dog Bites should be washed with 1 in 20 solution of carbolic or other disinfectant, or be painted with tincture of lodine and a dressing applied If any serious swelling occurs, or if the dog is believed to be unhealthy, medical aid must be sought immediately

Snake Bite has been successfully treated by

injection with antivenene

Bittern Wading bird of the heron family The common bittern of the Old World, Botaurus stellaris, formerly haunted the British fenlands where its guttural boom was heard It is about 2 ft long, with mottled plumage, The American bittern, B lentingnosus, is a winter straggler to Britain mottled plumage, The little bittern, Ardetta minuta, is rare The common bittern has been reintroduced into Norfolk and an order made for its protection This means that it is an offence to kill the bird, which by 1932 was well established.

Bittersweet (Solanum dulcamara)
Perennial trailing shrub
Common in British hedgerows its upper leaves are spear shaped, the lower ones oval or heart shaped and dark green in colour Clusters of small purple flowers are succeeded by green egg shaped berries, which gradually ripen to a brilliant red The plant has various medicinal uses It is sometimes called woody nightshade

Bitumen Term denoting combustible mineral hydrocarbons They are members of the paraffin and olefine series, ranging from solid to gaseous forms, and include mineral pitch or asphaltum, mineral tar or maitha, petroleum, naphtha and natural cost. The harder forms occur pre-eminently gas The harder forms occur pre-eminently in pitch lakes in Trinidad and Venezuela Impregnated limestones in France and Switzerland also furnish road asphalt, besides bitu-minous bases for damp courses and roofing felts Elaterite, found in Derbyshire, is an elastic bitumen

Bivalve Term denoting a numerous class of sightless molluscs whose Bissextile Term denoting a calendar shells have two valves These, completely or partially enclosing the soft body, are joined commonly called leap year. It is so called by a toothed hinge and held together by an elastic ligament. The calcified shells are secreted by the mantle surrounding the body, and within some of them pearls are developed. There are marine and freshwater bivaives, the former include many important for human food, such as oysters, scallops, cockles, mussels and clams.

Bizet Georges French musical composer Born near Paris, Oct 25, 1838, he studied at the Paris Conservatoire and won the Grand Prix de Rome with his cantata, Cloris et Clotilde His music to Daudet s L'Arlésicane, in 1872, was successful, and in 1875 he wrote his masterplece, Carmen He died June 3rd, 1875

Bjornson author Born, Dec 8, 1832, his father was a Lutheran minister He went to the university of Christiania (Oslo), and soon began a career as a journalist Having managed a theatre at Bergen, he was director of the national theatre at Christiania 1865 to 1873 He then became lecturer and jour nalist, took part in politics, and, owing to his advanced opinions, found it advisable to live in Germany for two years Having returned to Norway, he was active in securing the separation of his country from Sweden He died, April 26, 1910, having in 1903 received a Nobel Prize for literature

Bjornson was famous both as a dramatist and a novelist, his poetry is also notable His fiction includes stories of peasant life, using the English titles, A Happy Boy The Fisher Maiden and others, and the novels with a purpose, Flags are Flying in Town and Port and In God's Way His dramas include Sigura the Bastard, The Editor, The Gauntlet, Beyond our Powers, etc

Black and Tan Name given to a by the British Government for service in Ireland Recruited from men who had served in the Great War, they were sent to put down the disorders then prevalent, but their presence was signalised by increased violence which was answered by reprisals They were withdrawn when peace was made in 1922 A branch of the Royal Irish Constabulary, the men were khaki uniforms with a black hat and armband, hence the name black and tan.

Black Bass Genus of spiny finned and bass family (Micropterus) They are dark, freehwater fish weighing up to 5 lbs, much esteemed in N America, and introduced into French streams They range from Canada and the great lakes southward, the large mouthed, M salmoides, to Florida the small mouthed, M dolomicu, to Arkansas and S Carollina

Black Beetle Popular misnomer for orthopterous insects of the cockroach family They have long, flat, ovate bodies, with four wings, sometimes rudimentary in females. The common kitchen cockroach came from Asia Minor, the larger American species is a scaport pest, the smaller German one came westward during the Crimean war

Blackberry Species of prickly shrub of the rosaccous order (rubus fruticosus) The leaves have leaflets, dark green above but paler beneath There are scores of British sub species, some of which, such as dewberry R caessus, sometimes rank as species The black or red-purple fruit is

The calcified shells are not a berry, but a group of many succulent antie surrounding the body, seeded drupels on a conical receptacle

160

Blackbird Species of thrush (merula sunformly black plumage and bright orange bill The female has rusty-brown plumage and bill The male has a rich mellow note, of smaller compass than the song thrush, but sometimes imitating other songsters. The five or six red spotted, pale-green eggs may be repeated two or three times each season. It ranges throughout Europe, and migrates southward to N Africa

Blackburn City and county borough of Lancashire It is 211 m from London and 24 from Manchester and is served by the L MS Rly, also by the Leeds and Liverpool canal One of the centres of the cotton manufacture, it has also engineering works Pop (1931), 122,695

Blackburn Rovers Association football club It was founded in 1874 and was one of the first to adopt professionalism, which it did about 1882 Since then it has been continually in the front rank Six times, 1884, 1885, 1886, 1890, 1891 and 1928, it has won the Association Cup and twice, 1912 and 1914, the champion ship of the League

Blackcap Species of warbler (sylvia atricapilla) It has browngrey plumage and black crown. The female crown is rusty red The male is a frequent cage bird in France and Switzerland Of the five stained white, end-clouded eggs there are normally two broods in a year It ranges from Europe to N Africa

Blackcock Species of grouse (tetrao tetrix) The russet-brown female is called the grey hen, and weights about 2 lbs The male is pugnacious and polygamous, and interbreeds with other game birds They have glossy black plumage and weigh about 4 lbs The eggs, 6 to 10, are yellowish white, and red spotted The bird inhabits the N European Highlands, including Scotland

Black Country Name of a manufacturing district in Staffordshire, Warwickshire and Worcestershire The presence of coal mines and iron works gives the landscape a black appearance, hence the name Birmingham Wolverhampton, West Bromwich Dudley, Smethwick, and Valsall are the chief towns

Black Death Name given to a plague deaths in the 14th century It was called black because the rushing of blood under the skin caused it to appear black. The plague was very terrible, death often taking place in a few hours. It appeared in Europe in 1348 and soon invaded England. There is no exact information about the number of victims, but the total in England may have been up to 500,000. The plague was, it is thought, some thing like the bubonic plague, and the plague of 1665 was of the same kind.

Blackfeet N American Indian tribe stock The name, native Siksika, probably denotes their black moccasins. There are now in reservations 2300 in Saskatchewan and Alberta, Canada and 2200 in Montana, USA The Blackfeet Sloux are a Dakota subtribe

finals the Rhine valley for about 100 m. Its area is 1844 sq m, and it is mountainous and wooded, with much beautiful scenery. It is a favourite holiday resort—its inhabitants are skilled makers of tovs and clocks

Blackfriars Name given to the friars of the order of S Dominic, because their habit is a black cloak and hood The Dominicans had a priory in London, near where is now the western end of Queen Victoria St, and since then the district has been called Blackfriars In it are Playhouse Yard where James Burbage built his theatre, and Printing House Square with The Times office Black Friday Name given to Friday, Priday, May 11, 1866 On the former day the Highlanders under Charles Edward were at Derby, and this being known in London caused a financial panic. The second panic was due to the failure of the great banking firm of Overend, Gurney & Co, which had liabilities of £11,200,000 There have been Black Fridays, due also to financial trouble, in the United States

Blackheath in the borough of Lewisham and partly in Greenwich, it is 5 m from London, on the S Rly Its common, covering 270 acres, is famous, because, being on the main road from the Kentish coast to London, main road from the Kentish coast to London, several historic events have taken place thereon On it James I. plaved golf, thus introducing the game into England, and the Royal Blackheath club, which now has its links at Eltham, is the oldest in England Near the heath is Morden College, a home for decayed Turkey Merchants It was built by Wren, and was given by Sir John Morden in 1695 for its present purpose Blackheath has a conservatoire of music, and a school of the Girls' Public Day School Trust

The Blackheath Football Club is one of the oldest Rugby football clubs in England It

oldest Rugby football clubs in England was founded in 1860, and after playing on the Heath, acquired the Rectory Field at Charlton in 1883

Black Hole Prison in Calcutta Here on Jan 20, 1756, after Fort William had surrendered, Suraj-ud-Dowlah, ruler of Bengal, threw 146 English captives into a small room only 14 ft by 18 ft with two small windows A terrible night followed, and in the morning only 23 remained alive A memorial now marks the spot.

Blackie John Stuart Scottish scholar Born, July 28, 1809, his father a gange at Minnager in Aberdeen After a course at Edinburgh, he studied theology at Aberdeen, then, having given up the idea of becoming a minister, he went to Germany On his return he became an advocate Literature, however, attracted him and he published a translation of Faust In 1841 he was aptatisation of rausi in 10±1 he was appointed professor of humanity at Marischal College, Aberdeen, and from 1852 to 1882 was professor of Greek at Edinburgh Agrent and stimulating teacher, he did much literary work, including a translation of the Iliad Blackle, who died March 2, 1895, did a good deal to foster the study of the Gaelic language. language

Blacklead Another name for plumbago Lords He is also response an amorphous form of graphite or pure carbon. It contains no lead being order in the House of Lords of the Order of the Garter

Black Forest Mountainous district of sometimes with 5 pc of iron oxide and other the states of Baden and Württemberg, it but vanishes in smoke, the impurities becoming flanks the Rhine valley for about 100 m. Its lash It is used for making pencils, blacking ash It is used for making pencils, blacking stoves, and reducing machine friction

Black Letter Name applied to the angular Gothic minuscule letter prevalent throughout northern Europe about A D 1350 A century later it furnished models for the earliest printed types, and is essentially the letter still surviving in German printing It was used by Caxton, but in England the Roman letter quickly superseded the Old English black letter superseded the Old English black letter

Blackmail Crime of obtaining, or attempting to obtain money by threats. It takes the form of threatening to expose something, whether true or false, in business or domestic life that will be harmful to a person's reputation or happiness. It may also be a threat of violence. In English law it is a felony. The original blackmail was a tribute levied by raiders on the owners of cattle in the north of England. Those who paid were free from the attentions of the raiders. raiders

The word meant originally rent paid in black money, ie, copper as opposed to white money or silver

Blackmore Richard Doddridge. En-Longworth, Berkshire, June 7, 1825, he went to Blundell's School, Tiverton, and then to Exeter College, Oxford In 1864 he published a novel Clara Vaughan, and in 1869 made a reputation with Lorna Doone. His other books include The Maid of Sker, Cripps the Carrier, Springhaven, Perlycross and Dartel He died Jan 20, 1900

Black Mountains Range of hills Wales. They run through Brecknockshire into Herefordshire and form one of the loneliest parts of England and Wales The highest point is 2600 ft high

Blackpool County borough and water-ing place of Lancashire. It is 223 m from London and is served by the LMS Rly Tramways connect it with Lytham and St Anne's, and there are motor coach services from all parts With extensive sands and a bracing climate, it has become one of the most popular pleasure resorts in the country

The attractions include the pleasure beach on the south shore, the palace, opera house, theatre, winter gardens and tower There is a fine promenade and numerous hotels and boarding houses Pop (1931) 101,543

Black Prince Name given to Edward, the eldest son of Edward III, doubtless from the colour of his armour It was also the name of a British cruiser which was sunk by the Germans in the British of Edward Register when he was sunk by the Germans in the Battle of Jutland

Blackrock Urban district and watering Plackrock place of Co Dublin, Irish Free State It is 5 m from the city of Dublin, on the GS Rivs Pop 9000

Black Rod Officer of the royal house-hold and of the House of Lords He is best known as the official who, when Parliament is opened or closed on the

when Parliament is opened or closed, or the of the House of Commons to the House of Lords He is also responsible for keeping order in the House of Lords, and is the usher sphalerite It is a brittle mineral crystallising in oubes, usually found dark brown, with a resinous lustre, commonly admixed with iron and associated with galena and copper pyrites It is the chief source of zinc, and often reduces on the spot to zinc concentrates for economy of transport. It occurs in the United States, especially Missouri, as well as at Broken Hill, New South Wales Canada, Poland, Belgium, Spain and Great Britain

Blenheim Village of Bavaria, known also as Blindheim Near the Danube, it is famous because of the battle fought here, Aug 13, 1704 The British and Austrians under Mariborough and Prince Eugene respectively, joined forces and hurried to meet the French and their Bavarian allies The battle began soon after noon and was floreely contested until, by a stroke of genius, Mariborough, with a rapid alteration of plan, drove the French before him, and by nightful all was over Rather more than 50,000 men were engaged on each side, a large proportion being cavalry The losses of the British and Austrians were about 12,000, their foes lost 28,000 including prisoners

Blenheim Residence of the Duke of Marlborough It is near fine park covering nearly 4 sq m The house was presented by the nation to the 1st Duke of Marlborough after his victory at Blenheim (1704)

Blenny Extensive family of spiny finned fishes. They have clongated, cylindrical bodies having long dorsal and anal fins. Mostly marine, there are brackish water and freshwater forms. The nine British species include the scaleless shanny or smooth blenny, the gunnel, the wolf fish, and the viviparous blenny, whose female bears 300 living young

Blériot Louis French aviator and in He was the first to fly across the English Chennel, having crossed from Calais to Dover in 31 minutes on July 25, 1909 His monoplane landed on Northfall Meadow, near Dover Castle, and a monument now marks the historic spot He has been actively concerned in the production of aircraft, among devices associated with his name being the steering pillar and the landing chassis

Blériot Cup The International air challenge trophy is annually awarded It was instituted by M. Blériot, the French aeroplane constructor, when the Schneider Trophy was won outright by Britain in 1931 In 1933 the Blériot Cup was won by Captain Pletro Scapinelli (Italy), flying at a speed of 372 miles per hour

Bletchley Village of Buckinghamshiro It is 47 m from London, and is an important junction on the L M S system

Blickling Village of Norfolk It is on the Bure near Aylesham, and is famous for its hall The property of the Marquis of Lothian, this stands in a fine park Earlier the estate belonged to the Boleyn family In 1932 the fine library was sold in New York

Blind Term used for persons who have lost their sight. The training of the blind, both children and adults is an important branch of educational work. They are taught to read by means of the Brailie system, and are instructed in certain trades, such as basket-making, weaving and knitting, which are ruitable to them At 8 Dunstan's, Regent

Park, many blinded soldiers were taught typewriting, massage and other trades

There are schools and institutions for the blind, the chief being the National Institute at 224 Gt Portland St, London, W The blind are trained to take part in sports and games and some of them have done almost everything that a person with sight can do One or two fine musicians have been blind Notable blind men have been Henry Fawcett and Sir C Arthur Pearson There is a library for the blind at 35 Gt Smith St, Westminster, SW1 It has 150,000 volumes in Braille and Morse types

types
Blind persons are entitled to old age pensions when they reach the age of 45, and can obtain, without fee, a licence for a wireless receiving set See Braille

Blindness Lack of sight It may be total or partial Complete sightlessness may arise from atrophy of the optic nerve, or from inflammatory or degenerative changes in any part between it and the cornea Early is the 20th century it was estimated that o all existing cases two fifths would certainl and two fifths probably have been preventable Infantile purulent inflammation, the chief o these causes, is a gonococcal infection which almost always is certainly curable A diseas due to lack of cleanliness and more difficult toure is trachoma, or granular lids, accompanies by a contagious discharge, which prevails in the East, and affected nearly all Napoleon's soldiers in Egypt In advancing years blindness may be brought about by glaucoma, which distends the eyeball with fluid but this can be arrested by operation if detected early enough. The loss of one eye may induce total blindness by sympathetic ophthalmia

Blind Spot optic disc in the retine enters the eye It is a circle with raised margins insonsible to light and colours. Its diameter about 18 mm, gives an angle of 6°, determining the apparent size of the blind spot, large enough to conceal a man 7 ft away.

Blindworm Lizard simulating the shape of a snake because facking external traces of limbs (Angus fragilis) Found in Britain and Europe, it is an inoffensive, lethangic creature, sometimes called slow-worm It is from 10 to 15 in long, and its tiny teeth cannot penetrate the skin and lack polson fangs The female produces a dozen living young

Blister vesicle on the skin filled with serous fluid. It may arise from injury such as a burn, the friction of rowing, disease, an insect or a vesicatory substance Blisters are purposely produced as counter irritants to draw towards the skin deep seated inflammation. Such vesicants include can tharides, aceticacid, chloroform and ammonia.

Treatment—When possible leave a blister unbroken until the underlying surface has had time to heal. If broken, treat with boracle lotion or ointment

Blockade ports and coasts of a country by preventing ships from reaching or leaving it. It therefore affects neutral shipping, and the rules governing its exercise are the subjectmatter of much international law Ships attempting to avoid a blockade are liable to capture, in which case their fate is decided by a prize court.

At one time it was only necessary to declare

r state of blockade, it was not necessary to enforce it by adequate force. To day, however, a blockade is not recognised unless it is effective, it must be supported by a force sufficient to make ingress or egress dangerous to blockade runners. In Feb. 1915, Germany declared the coasts of Britain to be in a state of blockade and tried to enforce this by the use of submarines, Great Britain replied in March with a blockade of Germany which, although not absolutely successful, contributed very much to end the war

Blockship Vessel used to close a harbour by sinking it in the channel Sometimes they are sunk to protect a country's own harbours, but their most noted use in recent times was to block the harbours of Zeebrugge and Ostend, then in possession of the Germans Any vessel can be used provided it is filled with concrete or some other heavy material In olden days a blockship was

a storeship

Bloemfontein Chief town of the stands on a tributary of the Modder, 750 m from Capetown, with which it is connected by railway There is a university college and near, owing to the clear air, the University of Harvard has an observatory Bloemfontein was founded in 1846, and was entered by the British in March, 1900 It is the seat of the supreme court of the Union of S Africa Pop 42,500, about 28,496 being whites

Blois City of France It stands on the building is the magnificent chateau, once a roval residence The cathedral, dedicated to S Louis, was rebuilt in the 17th century, and the Church of S Nicholas, once an abbey church, dates from the 12th Pop 24,607

Blomfield Sir Arthur William English architect Born March 6, 1829, he was a younger son of Charles James Blomfield (1786-1857) who was Bishop of Chester, 1824-28, and Bishop of London, 1828-56 He was educated at Rugby and Trinity College, Cambridge, and became an architect As an ecclesiastical architect he was in the first rank His works include the restoration of Southwark Cathedral and the erection of many churches, including S Barnabas, Oxford, and S Mary's, Portsea. Knighted in 1897, he died Oct 30, 1899

Blomfield also heaven a rected architect restoration of the control of the c

Biomield's nephew, Sir Reginald Theodore Blomfield, also became a noted architect Born Dec 20 1856, he was educated at Hailoyburv and Exeter College, Oxford He became A R.A in 1905 and R A in 1914, and was President of the Royal Institute of British Architects, 1912-14 He has written several works on architecture, chiefly from the his torical point of view, and became a specialist in garden design In 1919 he was knighted

Biondin Charles Stage name of Jean François Gravelet, French acrobat. Born at St. Omer, Feb 24, 1824, he early specialised in tight-rope walking especially with spectacular incidents His colebrity was established in 1850 by crossing Niagara Falls on a rope 160 ft above the water He performed at the Crystal Palace, 1861, and made occasional reappearances, once from mast to mast on a liner at sea He died at Ealing, London, Feb 19, 1897

Blood Fluid flowing in animal arteries and veins Its continuous circulation from the heart back again to the heart was demonstrated by Harvey in 1628 It com-

prises a serous plasma, nine-tenths water, in which foodstuffs—proteins, carbohydrates, and salts—together with waste substances, are dissolved. The serum harbours independent cellular bodies, the haemoglobin containing red corpuseles, the bacteria-destroving white corpuseles, and the fibrin-making platelets, which in man may number per cubic mm 5,000,000, 12,000 and 800,000 respectively. It is per 14 lb of body weight is blood. In vertebrates it is red, in invertebrates other colours or none

Blood Thomas Irish adventurer, known as Colonel Blood Born about 1618, he served as a soldier in the parliamentary armies and received some land in Ireland Deprived of this at the Restoration, he revenged himself by trying to seize Dublin Castle and the person of the lord lieutenant. In this he failed, but on May 9, 1671 he succeeded in his most notable feat, taking the crown jewels from the Tower of London. He was arrested, but Charles II. pardoned him and he received his Irish lands again. Blood died Aug. 24, 1680.

Bloodhound Breed of dog It is essentially a large black-and-tan hound with long, smooth, drooping ears, wrinkled forehead, red haws to the eve-sockets, deep baying note, gentle disposition and highly developed power of scent It is derived from the old Talbot breed, and is probably the ancestral stock of all English races of hounds It is bred to track down game, and sometimes fugitive criminals

Bloodless Surgery See ORTHOPAEDICS

Bloodroot Name applied to several species of plants whose roots contain red pigment The common British tormentil, Polentilla tormentilla, is a rosaceous herb whose rootstock, rich in tannin, is used also by Lapps to dve their clothing A poppy-like herb, Sangunaria canadense, in eastern N America, supplies the Red Indians with paint

Bloodstone Variety of dark-green chalcedony with red jasper-like splashes It is a mixture of true quartz with hydrous or opal-quartz, not crystallised but minutely crystalline It comes from India, being used for seals and signet rings, and also from the Hebridean Islands of Rum and from Iceland

Blood Transfusion of the blood of one living animal to another Blood transfusion was first performed in Florence, 1654 Despite experimentation it did not become a regular operation until the 20th century, but is now widely used in cases of annemia, haemorrhage, etc Human blood has been found to be classifiable into four clearly defined groups, and it is important that the blood of the donor should belong to the same group as that of the patient

Bloody Assizes Name given to the Court of Inquiry, presided over by the notorious Judge Jeffreys, to try culprits after the Monmouth Rebellion, 1685 As a result, hundreds were put to death, or transported to the Colonics

Bloomsbury District of London It is bounded by Holborn and New Oxford Street on the S. Tottenham Court Rd on the W. Euston Rd on the N. and Southampton Row on the E. It is in the metropolitan boroughs of Holborn and St. Paneras, Many of the streets and squares are named after the Duke of Bedford, once owner of the land.

166

and his estates, o, Bedford Sq Russell Sq and Woburn Sq In the district are the British Museum University College and other branches University of London Sq Giles Church and several hospitals It is also a region of bottles and boarding houses a region of hotels and boarding houses

Blow John English organist Born in 1648 in Lincolnshire he became at In 1669 ho was made organist of Westminster Hoval, and in 1676 organist at the Chapel Royal Ho resigned the Abbey in 1680 hort Abbey, and in 1076 organist at the Chapei Royal He resigned the Abbey in 1680 but remained connected with the Chapei Royal Intil his death Oct II 1708 Blow was also a composer his works including many authors. a composer his works including many anthems

Blowpipe Tube of small bore through projected to direct and concentrate of air is and increase the temperature it produces soldering in the 18th contract and in characteristics. The contract of the USA Canada to the southern state for chemical in the 18th contract and in contract of the USA Canada to the southern state for chemical in the 18th contract and increase in the wild cam increase in Tunes with mouthpieces and the nozzles were used in early Exppt for glassmaling were soldering in the 18th century they were used for chemical analysis. Powerful blowpieces for creating bot gases use oxy hydrogen for steel oxy acetylone for welding.

Bloxwich Town of Staffordshire It is LMS Rly In the Black Country its chief industriae are coal mining and iron working industries are coal mining and iron working

Bludder ration where and other marine dense layers between the skin and the muscles to retain bodily heat. The mass of tissue which holds it together can be removed in small strain. Fat of whales and other marine to retain bodiliv heat. The mass of tissue which holds it together can be removed in spiral strips which when boiled down in tryworks, on the whaler or ashore yield train oil

Blücher Marshal von German soldier Gebhard Leberecht von Blücher was born Dec 16 1742 As a young man he was born Dec 16 1742 As a young man he served in the Swedish and Prussian armies, and served in the Swedish and Prussian armies, and then retired to look after his estate in Mecklen burk. He returned to the prussian army in 1793, and his courage and ability soon attracted attention. He man in malk and in 1817 14 co 1793, and his courage and ability soon attracted attention. He rose in rank and in 1813 14 accommander of an army fought in the freat took command of the Prussian forces and all though defented at Lideny shared in the final took command of the Prussian forces and at though defeated at Ligny, shared in the final victory of Waterloo Ho died Sept 12 1819 Blucher's impulsive energy won for him the

Blue At Oxford and Cambridge the name versity at certain sports and games against the other university. The first blues were those many the university hant race and were the other university The first blues were those who rowed in the university boat race and were who rowed in the university boat race and were so called because their colours were light and dark blue respectively. Later those who played for the university at cricket and football both Rugby and Association, were also called blues as himself university there is a blue committee. At each university there is a blues committee which decides the games for which blues are awarded. These who take part in games con of coondary importance are given. Awarded Those who take part in games con sidered as of secondary importance are given half blues. At athleties the first representative in each event is a blue and the second a half blue. For bother lawn tannia requests in cach event is a orac and the second a name blue. For hockey lawn tennis racquets ewimming boxing etc half blues are usual, but in one or two cases full blues are given

Bluebeard Nickname of the Chevaller magnary tale by Pormult 1697 It is the imaginary tale by Pormult 1697 It is the most famous of a cycle of folklore stories making the ogre murder successive wives who have entered a forbidden chamber France some dentifies him with Gilles de Rais a blue above and silvery below it inhabits warm

15th century marshal of France whose on dered young boys Brittany claims him to the continuous form of the century Breton chief to BLUEFISH Comorre a 6th century Breton chief who

Bluebell (Scilla nulans) Bulbous plant long narrow leaves about 12 in in length With flowers borne on one slender stem in length it blooms are erect but they droop as they open. Ringle or harebell list the wild cam Ringle or harebell stems of the wild came or harebell ringle or

American thrushes

Bluebottle Insect related to the larger It is known because of the buzzing wholesome visitor to the larder as it lays its

Bluebottle species of herb of the composite order (Centaurea cyanus) It is an annual or blennial Its heads cijanus) it is an annual or biennial its heads are surrounded by large, bright blue ray florets, from which cornflower blue derives its name it extends from temperate Europe across to Africa.

Blue Coat School Name given to schools School Warner Bothools School Warner Bothools Bothool Warner Bothools Bo but especially to Christ a Hospital West Hor sham, Sussex This was transferred thither in sham, Sussex This was transferred thither in 1902 from buildings in Newgate Street London, appropriated by Edward VI in 1553 from the Grey Friars monastery The traditional dress—bulled Sown neckbands The traditional dress—Vellow stockings is still worn by the boys other blue-coat schools are in Westminster same foundation as the Chester There is a for Christ & Hospital there.

same foundation as the boys preparatory school for Christs Hospital there.

Blue Cross Badge of an association for a saled horses It slding wounded and discountered to the Great was manugurated at the cooperation of the French was with horses being aided by Repch horses british to French was with horses being aided by Repch horses British Hill Woolwich London SE where dogs and cats are kept during the absence of their owners thin Woodwich London S.E. where uoga and cats are kept during the absence of their owners or for other reasons

Blue Ensign Flag composed of a union flag in the upper corner next the staff of distinguishing the Royal Name Property of the staff of the control of the co Union that in the upper corner next the stan it distinguishes the Royal Naval Reserve as well as the public , consular service It is authorised also for members of specified vachts and cortain more hant vessels under under clubs and certain merchant vessels under

and temperate regions on both sides of the N Atlantic is very voraclous, and catching it affords excellent sport.

Blue Peter Rectangular blue flag square It is flown by British seamen as a signal, both to the crew and to the general public, that the time for sailing has come It also serves to recall boats to the ship, and is usually hoisted at the foreroval masthead

Blue Stocking Term humorously dewoman It was first applied to a literary coterio meeting about 1760 in the Mayfair house of Mrs Elizabeth Montagu She apparently adopted blue stockings in imitation of similar reunions in 17th-century Paris, such stockings were worn by various members of the club, both men and women

Bluethroat Genus of warblers (cyane-tula) It has cobalt-blue throat and upper breast. The red spotted blue-throat (C succea) breeds in temperate Europe and Asia, and winters in India, Abyssinia and N Africa Its mature note distinguishes it as the Swedish mghtingale It visits on migration the east coast of Britain

Blundellsands Watering place of Lancashire It stands on the Mersey, 6 m from Liverpool, of which it is practically a suburb It is reached by the LMS Rly

Blundell's School Public school of Devonshire Just outside Tiverton, it was founded in 1604 by Peter Blundell, a Tiverton tradesman The present buildings, which hold about 350 boys, were built in 1882, the old building mentioned in Lorna Doone was in the town itself

Blunderbuss Firearm of the pistol type, now obsolete It had a flintlock and a trigger, and with a large bore held several balls It was not capable of being fired with any precision

Blyth Borough and scaport of North-umberland It stands at the month of the little River Blyth, 11 m from Nowcastle, on the LNE Riv The chief industry is the export of coal and there is a large modern harbour The borough includes Cowpen once a separate urban district. Pop (1931) 31,808

Boa Genus of snakes There are five species in tropical and sub-tropical America, and two in Madagascar The most familiar, boa constrictor, ranging from Venezuela to the upper Argentine, may attain 12 ft. in length It feeds normally on small mammals, sometimes on deer and dogs

on deer and dogs

Boabd11 Last Moorish king of Granada
Boabd11 Last Moorish king of Granada
Boabdil (Abu Abdalláh), became king in 1482 Invading Castile in 1483,
he was captured and became vassal to Spain
When he refused to surrender Granada in 1491,
the Castilians besieged and took it, Boabdil
ded, and subsequently was killed in Africa

Boadicea British queen More correctly Boudicea, she was the wife of Prasutagus, king of the tribe of the Iceni Being under Roman rule, Prasutagus left his property iointly to his daughters and Nero At his death the Romans seized it, scourged Boadicea and ravished the daughters Boadicea then incited the Britons to rebellion, burned Camulodunum (Colchester) and defeated the Romans Eventually overthrown by Suetonius Paulinus, Boadicea poisoned herself AD 62 Thomas Thorneycroft's sculpture on the

Thames Embankment, London, commemorates Boadicea's rebellion

Boanerges Descriptive surname given by Jesus to two prominent disciples, explained as meaning sons of thunder (Mk iii, xvii) These disciples James and John, the sons of Zebedee, display in the gospel narrative an impetuous and ambitious disposition, which may have suggested the title In modern usage it sometimes describes vehement orators

Boar Wild hog Domestic breeds of pig are derived from the European wild boar (sus scrofa), which was hunted in Britain in the 16th century, is still found in France and other parts of Europe The Indian wild boar (Scristatus) furnishes the sport called pig sticking In some localities domestic swine turned loose have become wild again

Boar's Hill District near Oxford Across the Thames in Berkshire, it is about 4 m from the city. It has become a favourite residential area. Owing to its beautiful situation, it was decided in 1929 to take steps to protect its amenities. There John Massfield lives, and has his private theatre.

Boat Conveyance for use on water The earliest boats were of bark or wicker covered with skin, and since then they have developed in every possible way The word is loosely used for any vessel, but strictly a boat is small and open, a larger vessel being a ship Boats propelled by oars are still used, but motor boats are nonlar

boats are popular
The Oxford and Cambridge Boat Race was first rowed in 1829 and became an annual event in 1856 It is rowed on a course of 4½ m from Putner to Mortlake In 1933 Cambridge had won 44 races and Oxford 40 The record time for the course is Oxford's, 18 m 29 sec, in 1911

Boathy Name for two genera of aquatic bugs, also called water boatman Notonecia swim on the back and use the fringed hind legs as oars extending them like sculls when at rest. Air is led through a tunnel of overlapping hairs from the tail to the thorax Corixa swim back uppermost.

Boatswain Subordinate ship's officer In the days of sailing ships he was a petty officer in charge of boats, rigging and anchors, piping the crew to work with a silver whistle In the merchant navy to-day he is the crew's foreman and sometimes the lowest mate

Boaz Biblical character In the book of Ruth he appears as a wealthy Bethlehemite who, by his marriage with Ruth, became the great-grandfather of David

Bobolink American song bird related to the starling (Dolichonyx ory zivorus) The male is black and buff in the spring, the female is smaller and vellowishbrown. In their northward migration they fill the northern parts of the United States and Canada with melody On their return they devastate the ricefields, and are then called reed birds or rice birds

Boccaccio Giovanni Italian writer Born in Paris or Florence in 1313, lived a roving life, writing a good deal, and making love to the lady who, as a liammetta became the heroine of some of his stories She was probably a daughter of Robert, King of Naples He became friendly with Petrarch, who influenced him greatly

Boccaccio, who had already written many

poems and some romances, finished, in 1358, less that the work on which his fame is the work on which his fame have been told by ton persons in the beautiful work is one of the work of the world's greatest pieces of t rests This consists of 100 stories, supposed to have been told by ten persons in the beautiful sardens of a country house during the plactic in Florence in 1348 In style and the plactic work is one of the world's greatest plact of the world's greatest place of England and elsewhere are later writers in Bhas several times been translated into English cocaccio died Dec 21, 1375

Bode Johann Elert German astronomer Born at Hamburg in Jan, 1747 he became astronomer to the Berlin Academy of the observatory Ho

became astronomer to the Berlin Academy of Science, and director of the observatory of prepared star maps and did much to popularise died Nov 23, 1826 popularise empirical formula for tebulating the distances of the planets from the sun The number 3 to did not be did not sound and then redoubled thus 0 3 6, 12, 24, 48, 96, and so on, and 4 is added to each is doubled and then redoubled thus 0 3 6, 12, 24, 48, 96, and so on, and 4 is added to each the proportionate distances of the planets from

the proportionate distances of the planets from Bodiam Village of Sussex It is 6 miles from Battle on the River Its castle a perfect example of a medical most, was restored to the Marquess of the Strong of the Marquess of the Strong of the University of the Marquess of the Strong of the University of the Marquess of the Strong of the University of the Marquess of the Strong of the University of the University of the Marquess of the Strong of the University of the University of the Strong of the University of the University of the Strong of the University of the University of the University of the University of the Cost of of the University of the Cost of extended to the University of the University of the Cost of of the Cost of of the University of the Cost of of the University of the Cost of October 1900 of the October 1900 of the Cost of October 1900 of the Oc

Bodmin Borough and market and county of town of Commarket and county of London on the G W and South and 234 from is an agricultural trade and south and 234 from are near The town has a beam like and 234 from Pop (1931) 5526 with has a beam like as statiff on Bodmin Moor is a large and a hard large statiff on Fract.

Pop (1931) 5526

Bodmin Moor is a large and desolvte taract the highest point.

The town Record Wilheld is

Body Snatching Secret bodies for sale as subjects for sale as subjects for sale as subjects for sale f  $\circ_{\mathrm{ecret}}$ This gruesome industry arose for of dead in the 19th century for sape in Britagettion medical students in 1828 about 200 lects to it in London alone on men, war persons medical students in 1828 about 200 persons known as resurrection men, were e garged in in 1832 Body snatching gave insertion to the "Burke and Hare murders" in Edinburgh

Boece Hector Scottish historian Born Dundee about 1465 he became Porcessor of Dindee about 1465 he became professor of philosophy in the University of He died at Aberdeen in 1536 His chief work is a Latin History of Scotland in 17 books, published in 1527 and of which an English color of Scotland in 1577 Potential Processor of Scotland in 1577 Potential Color of Scotland in 1577 Potential Color of Scotland Color of

Boehme Jakob German mystic. Called of a peasant Jacob Behmen, he was the son of a peasant In 1612 he published Aurora, a book showing the eternal and all pervading presence of God, a kind of pantheism. This bidden to write any more but Just before his about 17 1624, The IVay to Carist thinkers

Boer Word meaning a farmer or agricul turalist and given to the Dutch of Inter founded the state of the Transvaal and the S Africa They settled there about 1650 and later founded the state of the Transvasl and the Orange Free State They still form the majority found in Cape Colony and Natal

miles Boer War The Boer War broke out of a way way of Verceniging 1902 It causes were chiefly in atter Lord Chelmsford's victory at Ulundi, and the Boers growing irritation at the British and the Boers growing irritation at the British Jameson Raid, 1896, the Boers began to arm, by The War began disastrously for Britain, victory at Ulundi, and the Boers growing irritation at the British for the Boers growing irritation at the British of the Boers began to arm, by The war began disastrously for Britain,

to Kimberley and Mafeking began disastrously for Britain, by Wut reinforcements disastrously for Britain, by Material Comments were sent out in 1900 and of Lord Richard Cronje, French relieved the Mateking a force from Rhodesia relieved Mateking a force from Rhodesia relieved which president Kruger such for peace, which and a Salisbury, the British Premier, State and the Transvaal came under British rule again

rule again
General Smuts, Botha and De Wet, how
ever continued hostilities, but Lord Kritchener
prosecuted the war with such rigour that
mised to restore independent government
The war a main result was to win uncounlarity The war s main result was to win unpopularity of jingo imperialism and to encourage the colonies to demand independence other colonies to demand independence

Boethius Roman statesman and philo justice he was sopher Boldly maintaining justice he was accused of treason and although declared innocent, was imprisoned, his roads Justice he was accused of treason and, although declared innocent was imprisoned, his goods condscated, and himself put to death During Year's captivity he wrote Consolation of Philosophy (De Consolatione Philosophae), a geval schools used also his texthooks on recometry, weak schools used also his textbooks on geometry, was translated into Frankh by Wing Alfred.

He died at Aberdeen in 1636 His chief work.

Is a Latin History of Erasmus published in 1527 of Scotland in 17 books.

BOCINN Sir Joseph Edgar British sculptor was naturalised. He soon made a reputation, sq m., Canada, 45,000 sq m., and the United in 1600 sq m., and the Unite

States, 31,250 sq m Destructive bog slides sometimes occur

Bog Asphodel (Narthcaum ossifraof the Illiaceous order It has racemes of greenribbed, golden-vellow flowers Called the Lancashire asphodel in England, it inhabits boglands throughout Britain, as well as the N temperate zone southward to the Alps

Bog Bean (Menyanthes trifoliata)
Species of bog plant of the
gentian order Also called buck-bean and
marsh trefoil It has a creeping rootstock,
which is a useful food, with long stelked leaves
in three leaflets, and spikes of pink or white
flowers Found throughout the temperate
regions of the north, it is used as a febrifuge

Bog Butter Term denoting a mineral resin A fatty carbohydrate having the appearance and consistency of spermaceti, it is found in massive lumps in bogland in Scotland and Ireland It is derived from the decay of vegetable matter

Bogey
Term used by golfers, representing the fixed score for each hole of a Bogey was jocularly described as a colonel

Bogie Platform or under-carriage attached to a railway locomotive or car It is mounted on one or two pairs of wheels and pivoted on the main frame by a vertical swivel to enable sudden curves to be traversed readily Bogie engines similarly facilitate the making up of trains in a siding

Bog Moss (sphagnum) Genus of cryptogamous plants forming an order of mosses Growing in greenish or reddish masses on moors or bogs, when submerged in pools it may reach several feet. It is used for surgical dressings. Distributed over the temperate and arctic zones, there are 12 British and 25 N. American species.

Bognor Regis Watering place and urban district of Sussex It is 10 miles from Chichester and 67 from London on the S Rly At Aldwick near here, in 1928-1929, King George V spent some months during his convalescence and after his departure added the word Regis to the town's name Pop (1931) 13,510

Bog Oak Trunks and branches of oak found embedded in bogs Their preservation is due to the antiseptic properties of the peaty matrix. Of unknown age, they owe their colour, ranging from dark green to ebony, to being impregnated with iron. Bog oak is turned in the lathe for brooches, bowls and ornamental articles.

Bogota Capital of the Republic of about 9000 ft above sea level, some 200 m from the coast The commercial centre of the republic, the town was founded in 1538 as Santa Fe de Bogota and became the capital in 1831 It has railway connection with other cities and with the coast at Bucnayentura, also a regular air service Pop 235,421

Bohemia Province of the Republic of 20,100 sq m and its population is (1930) 7,106,766, mainly Czechs Prague is the capital Pilsen (Pizen) and Budweis are other populous centres The chief rivers are the Elbe, the Moldau and the Eger There are large forest areas, but much of the land is cultivated

From about 900 to 1526 Bohemia was an independent kingdom. In 1526 it came under the same ruler as Austria and Hungary and from then until 1918 it was part of the realm that became the Austro-Hungarian Empire In 1919 it was the centre round which the state of Czecho-Slovakia was formed. See Czechoslovakia,

Bohemianism Phrase used for the unconventional way of living adopted by artists, literary men and students in Paris, London and elsewhere It comes from the fact that the gypsies who lived this kind of life were believed to have come from Bohemia Paris was the original home of Bohemianism, and it still flourishes there.

Bohn Henry George English publisher Son of a German bookbinder He was born in London, Jan 4, 1796 He started in business in 1831, issued a guinea catalogue of 23,000 books, and dealt in remainders He wrote on questions of copyright and the paper duty, compiled handbooks of quotations, games and pottery, and revised Lowndes's Bibliographer's Manual, 1857-64 He is best known for his editions of standard works and translations, embracing 750 volumes, the copyrights of which are now the property of J Bell & Sons He died Aug 22, 1884

Bohun Name of a famous Norman family Having settled in England, its members became rich and powerful landowners. In 1199 Henry Bohun was made Earl of Hereford and was one of the barons associated with the signing of Magna Carta Another Bohun opposed Edward I. The male line died out in 1373

Boil Small, painful swelling on the skin, with redness and suppuration. It becomes a yellowish core of dead tissue, due to a micro-organism, generally a staphylococcus. When this comes away the boil quickly heals. Boils usually start in hair-roots on the back of the neck, or on the limbs, a mass of them becomes a carbonnel.

on the back of the neck, of on the limbs, a mass of them becomes a carbuncle (q v). The inflammation caused by a boil can be reduced by hot boric lint poultices. The pus should be evacuated by surgical means and care taken not to spread the infection to the surrounding area. Boils occur in "run-down" conditions, so attention must be paid to the general health as well as to the diet, which should be plain and nourishing and contain plenty of fruit and green vegetables. Exposure to ultra-violet rays is beneficial, and when there is a tendency to recurrence a vaccine may be necessary. (For Gum boil, see under Abscrss.)

Boiler Vessel for heating liquid to boiling point. The term includes such utensils as wash boile's, used for soiled linen, and the structures called steam-boilers, which generate steam for driving engmes. These may be simple vertical tanks, or horizontal cylinders containing internal furnace flues, one in the Cornish type and two in Lancashire boilers. Galloway tubes expanding into heads, when fitted, increase the heating surface, further increased—in multitubular boilers—by introducing into the flue space tubular sections. Steam producing efficiency is also increased by conducting the water-mass through systems of water tubes, as in modern types of locomotive, and in stationary and marine engines.

Boiling Point Temperature at which, verted into vapour, the tension of the latter equals the atmospheric pressure It varies

for each liquid, and for the same liquid is Viscount Bolingbroke and St. John. The titles lower whon the pressure lessens, as when ascending a mountain or in a balloon Under normal pressure water boils at 212° F or 100° C at the summit of Mont Blanc it boils at 185° F The boiling point of spirit of wine is 78° C, ether 35° C, mercury 357° C

Bois de Boulogne Park in Paris the city, it covers some 2200 acres and is bordered by the Seine In it are the race courses of Autoull and Longchamps, grounds for polo and other sports zoological gardens, an aquarium and other attractions It was en closed about 1800, and in 1853 was given to Paris by Napoleon III

Bokhara Province of Asiatic Russia Bordering on Afghanistan and occupying 85,000 sq m it was formerly a protected emirate In 1924 it became with Khiva the independent Soviet Republic of Uzbekistan The low W plains rise eastwardly through fertile plateau valleys to lofty glacier Nomad Moslem Uzbeks breed fed mountains horses and cattle, rice, wheat cotton and fruit are raised

The old town of Bokhara was once central Asia's chief mart The new town is a Russian outgrowth Pop 75 000

Bolan District of British Baluchistan Botween the upper Sind plains and the Quetta highlands it is traversed for 60 m by the Bolan Pass with a narrow between lofty cliffs at a point where the British army was plundered in 1839 Marauders long kept it unsafe until, after 1879, a railway was constructed

Bole Clay-like mineral. It is a hydrous silicate of alumina with some red iron exide Although soft and unctrous, it is more like fullers earth than a plastic clay being chiefly used as an astringent and pix treat. It supplied the red letters in old MISS. and comes from Italy, Silesia and Armenia.

Bolero Spanish dance It is usually danced by two persons to the accompaniment of the castanets

Boleyn Anne. Queen of Henry VIII
Sir Thomas and Elizabeth Boleyn, and mother
of Queen Elizabeth, she was born about
1507 Her reign was short, Henry, growing
thred of her and her failure to produce a son
ordered her execution in 1536, on an unproven charge of incest

Bolingbroke Viscount English states man Henry St John was born at Battersen in Oct. 1678 and educated at Eton In 1701 he entered Parliament as a Tory and was Secretary for War from 1704 to 1708 In 1710 he became a Secretary of State and helped to make the peace of Utrecht For his share in the Treaty of Utrecht he was impeaced and attained but he saved his life by fleeing to France He went to the court of the Sturrts and was Secretary of State to James Edward In 1723 Bollingbroke was pardoned and returned to England, where for many years he was one of Walpole's chief opponents, rears he was one of Walpole's chief opponents, thacking that minister by speech and in The Craftsman. He died Dec 12 1751 Boling broke wrote The Idea of a Patriotic King, and Letters on the Sludy and Use of History Bollngbroke's father Sir Henry St. John was made Viscount St. John in 1716 This

title passed to the statesman's younger son, Francis whose son Frederick Inherited both his father's and his uncle's titles and became are still held by a descendant.

Standard monetary unit. of Venezuela Silver coins of 5 Bolivar 25 2 1 and 5 bollvar are current. It is composed of 100 centavos, and at par is worth about 9 d

Bolivar Simon Spanish statesman, called the liberator owing to his work in S America. Born at Caracas Yenezuela, July 24, 1783, he was educated in Spain and inherited much wealth Having returned to Venezuela, he became active among those who were working to free the continent from Spanish rule and he was a leader in a rising at Caracas in 1810 In 1813, after a victory over the Spaniards, he was proclaimed dictator of Venezuela, but was soon driven away and took refuge in the West Indies He returned however, to the struggle and proclaimed a larger republic which he called Colombia The independence of this was recognised in 1821 and of it Bolivar was the first president He then turned to Peru, which also he freed from Spanish dominion, and when its southern provinces formed themselves into a separate state this was called Bolivia, and Bolivar was named perpetual protector His authority in Peru was overthrown, but in Colombia after a brief retirement, he returned to power and remained president until his death Dec 17 1830

Bolivia Republic of S America Entirely inland, it is surrounded by Brazil Paraguay Argentina Chile and Peru The boundaries are not all exactly defined Area about 514 155 sq miles, much of it moun tainous The rivers include the Mamore and the Bent and in it is Lake Titicaca Pop (1931) 3 014 069, over half of whom are Indian There are two capitals, La Paz and Sucre Only a small proportion of land is cultivated small proportion of land is cultivated

Much tin is produced and exported antimony and rubber are other exports. The country is governed by a president elected for four years, and a cabinet which is responsible to a parliament of two houses. All males who can read and write have the vote There are can read and write have the vote There are a few lines of railway, one going to Anto' fagasta on the Pacific coast in Ohile The standard of currency is the boliviano Having been part of Spain Bolivia became independent in 1824 and took its name from Simon Bolivar' There have been several boundary disputes the paragraphy over the librar (blood) There have been several boundary disputes one with Paraguay over the Gran Chaco-boundary causing hostilities in 1932 and in 1933 war was declared. This continued with a brief armistice (1933) till agreement was finally reached in June, 1935 Bolivia belongs to the Leazue of Nations

Bollington Urban district and market town of Cheshire It is m from Macclesfield on the LNE Riv Silk Urban district and market is manufactured Pop (1931) 5027

Boll Worm Caterpillar which pierces the flower buds and pode or bolls of the cotton plant. It is the larva of the owl moth, heliothis armigera and is a destructive American pest. In India cotton is attacked not by this but by the caterpillar of another genus earnas, which also supplies the Egyptian boll worm.

Bologna City of Italy It stands on two
50 m by road from Milan, but 134 by rail
One of the oldest cities in Italy it is, in the older parts, full of churches and other buildings In the centre of the city are two of interest

It has many manufactures and printing works

and is an important railway junction
Bologna University is one of the oldest in
Europe Founded in the 11th century, it was
then famous as a school of law Later it was a European centre for medical teaching main building dates from the 16th century and there is a valuable library Pop 246,280

Bolometer instrument for measuring radiant heat. Devised by the American physicist Longley in 1881, it absorbs the radiations on blackoned metal strips and the change in temperature of these can be estimated from the change in electrical resistance to 10 1000° G

Bolshevism Social and political movement that arose in Russia during the Great War The word means great, and was given to those who formed the majority After 1917, under in the Communist Party Louin and Trotsky, its principles were carried out ruthlessly They included nationalisation of the means of production, disestablishment of the church, and in general the abolition of the capitalist system. The organisation that replaced the old order proved extremely efficient, but economic laws were too strong for it in several directions

The leaders set up an organisation for conducting propaganda in foreign countries, but, except for a short time in Hungary, the results were not very tangible. What is called the November 1998 with the Five Year Plan was launched in 1928 with the object of rivalling the industrial and agricultural output of other nations In a Bolshevik calendar was introduced In 1929 to be introduced into the Soviet autonomies within the framework of Bolshevism

Bolsover Urban district of Derbyshire It is 6 m from Chesterfield on the LMS and LNE Rivs The chief industry is coal mining Its castle ruins are of interest. Pop (1931) 11,811

Bolt Head Cape of Devonshire It is on the S coast, just west of the estuary of the Salcombe river A fine natural feature over 400 ft high, it was acquired in 1928 by the National Trust.

Bolton County porouga and the of Lancashire It stands on the LMS Rly, 196 m from London and 11 from Manchester and is also served by motor om-nibuses and canals 'Bolton is a centre of the nibuses and canals 'Bolton is a centre of the ribuses and canals 'Bolton is a centre of the cetton industry, it has also chemical works and paper mills. Pop (1931) 177 253

Bolton Abbey Village of Yorkshire from Leeds on the River Wharfe, on the L MS Rl). There are ruins of a priory the church of which is now the parish church. Here is a modern residence of the Duke of Devenshire

Bolton-on-Dearne Urban district (WR) It is a coal mining centre on the Dearne, 7 miles from Rotherham and stands on the LMS Riv Pop (1931) 14 242 Yorkshire

include explosive vessels actuated by trip-mechanism or clockwork and incendiary Bonar in Edinburgh, Dec 19, 1808, he

plazzas with two palaces built in the Middle grenades. Hand-throwing bombs, such as the Ages for civic purposes. The city has two leaning. Mills, are time grenades, and can be adapted towers and several palaces of historic value, for discharging from rifles. In 1918 bouncing bombs, by a supplementary charge in flee head rebounded and burst in the air Bombs dropped by aircraft are either high-explosive or those with light bursting charges filled with lethal, irritant or incendiary substances, discharged as gas liquid drops or fine dust.

Bombay Presidence of India It extends along the west coast from Baluchistan to Mysore and covers 123,621 sq m, in addition to 28,562 sq m occupied by native states. It includes the provinces of Bombay and Sind. The guilt of Cambay are the chief apparent. Bay of Cambay are the chief openings Bombay and Karachi are the chief ports and Bombay, Ahmedabad, Poona and Karachi are the largest towns The bulk of the people live by argest towns The bulk of the people live by agriculture, but the cotton industry is important and irrigotion schemes, including the Lloyd barrage at Sukkur, have brought much lind into cultivation. The presidency is governed by a governor and two executive councils. There is also a legislative council, mostly of elected members. Pop. 21,000,000, of whom 4,000.000 are in the intive states. The motority are Hindus. The majority are Hindus

Bombay City and seaport of India It is at the south end of the island of Bombay and connected with the mainland by bridges and a causeway. It is the torminus by bridges and a causeway It is the torminus of the Gt Indian Peninsula Rly and is served by other lines The harbour, which hes between the island and the mainland, is an excellent one and there are some miles of docks Under the Port Trust great improvements have been made in recent years Great quantities of cotton are shipped from here and there are steamer services to every part of the world. The public buildings embrace a group for the use of the government round fae old Fort

and include the courts of justice Nearby are the cathedral, the museum, and Elphinstone College In the north is the native city, the Jama mosque and other features of interest The city has a large and rich Parses element, who have here their towers of silence where they expose their dead Pop (1931), 1,161,383

Bonaparte Surname of the family made famous by the great Napol-Buonaparte, but in the 16th century Francesco Bonaparte settled in Corsica His descendant, Carlo Bonaparte, a public official at Ajatero married a lady named Ramolino and had five married a lady named Ramonno and lad livesons. These were Napoleon, Joseph (1768-1841), for a short time king of Naples and then king of Spain, Lucien (1775-1840), Louis (1778-1846), king of Holland, and Jerome (1784-1860), king of Westphalia.

Napoleon's family became extinct when his conditions and in 1820. The part had no sons

only son died in 1852 Joseph left no sons Lucien had a large funity, and one of his sons, Louis Lucien had until 1891 Some of its branches sank into obscurity, but possibly members of it are still alive Louis was the father of Napoleon III and his male line became extinct when the Prince Imperial was Filled in 1879 The male representatives of the Romanartes are therefore the decondants to Bonapartes are therefore the descendants of Jerome In 1926, on the death of his elder brother, Jerome's grandson Louis Napoleon became the head of the family The American Bonapartes are descended from Theorem's flow Bomb Hollow explosive vessel That comprising a cast iron ball filled with became the head of the family. The American bursting charge, fired from a motter and exploded by fuse, is now called a shell. Bombs marriage with Elizabeth Patterson of Bultimore include.

Was educated there and in 1837 became a attracted attention. They were mainly scenes in 1843 he followed Chalmers and became one of the founders of the Free Church He etchings of the battlefields. He was equally successful in the etchings of the battlefields. He was an official artist on the western front and with the Fleet. of the founders of the Free Church He remained in Kelso until 1866 and from them remained in Keiso until 1800 and from then until his death he was minister of the Chalmers ment his death he was minister of the Chaimers Memorial Church in Edinburgh In 1883 he was moderator of the assembly He died H

Bonchurch Village of Wight Al from Ventnor, it stands beneath S a mile not stands a famous beauty spot It has an interesting old church and farther up the hill in the church and farther up the hill in the church and start in the

Bond Document by which a person agrees to pay a sum of money in a certain the strength of the pay a sum of money in a certain the strength of the pay a sum of money in a certain the strength of the pay a sum of money in a certain the strength of the pay a sum o time it must be signed and sealed, but it does not necessarily require valuable consideration Public companies often raise money by means reduce companies often raise money by means as accomply for money homewood. The Relified Police of Relified Police of moregage bonds and dovernments issue bonds as security for money borrowed. The British Government issued National War Bonds during the Government issued National War Bonds during the Government issued National War Bonds which Government issued National War Bonds during the Great War Gold bonds are bonds which must be repaid in gold or the value of gold. Some bonds are repaid by drawings, a certain Britain bonds are liable to stamp duties.

Bondfield Margaret Grace Engusa 1873, in Somerset she spent some years as a shop assistant In 1898 she became assistant characters to the chan assistant miles and shop assistant In 1898 she became assistant secretary to the shop assistants union and years was soon a prominent trade unionist, also In 1923 she was elected MP for Northampton secretary for Wallsend In 1924 but in 1926 was returned for Wallsend In 1924 she was 1929 was to the Ministry of Labour and in 1924 woman to sit in a British cabinet In 1931 she resigned office and in Oct. lost in Parliament.

her seat in Parliament.

Bond Street London street, famous strict from Piccadilly to Oxford St centre and and New Bond St at the Piccadilly It is named after Queen Henrietta Maria.

Queen Henrietta Maria.

Botte Hard substance forming the skeleton in nearly all vortebrate animals It of the skeleton of orthogolar of the skeleton of the ske

Blood vessels nerves and lymphatics
BROKEN BONES Sumptoms—Inability
to move severe pain, swelling, in a compound
fracture the bone is sticking through the skin
title as possible mateur must interfere as
as near the normal as can be protect the patient little as possible Place the time in a position as near the normal as can be protect the patient from exposure and shock (q v ) and summon skilled assistance immediately

skilled assistance immediately

Bone Implements appeared first in the Stone
Awls, eyed needles harpoons and expoons and expoons and expoons and expoons are handles. They still abound

BONNET artist on the western front and with the Fieet. Bonheur Rosa. French artist Born her baptismal name was Marie Rosalle Rosalle con was Marie Rosalle Ro

her baptismal name was Marie Rosalle She studied art and soon won fame by her pictures of animals, which were specially popular in England Perhaps the best known of them are "The Horse Fair", and 'Returning to the Legion of Honour She died May 26, 1899

Bo'ness See BORROWSTOUN VESS

Boniface English saint called the in Devon about 680 his name was Winfrith and hearnes a priest. in Devon about 680 his name was Winfrish He entered a monastery and became a priest in 710, after which he went to Germany as a missionary. There he did a great work in converting the heathen to Christianity in the was made a bishop and from 746-54 was buried at Fulda, where he had founded an about His festival is kept on June 5 Name of nine popes Bont

Boniface Name of nine popes Boniface II 530 32 face I reigned 418 22 Boniface Boniface III in 606 and from 619 25 Boniface VI for only a pope days in 806 and 19 10 for only a few Boniface IV 608 15 Boniface V was pope days in 896 and Boniface VI for only a few who died in 985 Boniface VIII was an antipope 1294 to 1303 is noted for his insistence on the ordered the clerry to pay no taxes without his rights of the papacy throughout Europe ordered the clerry to pay no taxes without his consent, and this led to serious quarrels with He died Oct 4 1303 and Philip IV of France from 1389 to 1404 He was set up in opposition of Clement VII who was reigning at

Bonn Town of Prussia It stands on the Rhine about 15 m from Cologne It is chiefly famous for its university, founded in 1818 The nucleus of this is the palace, once the residence of the electors of Cologne, the palace, observatory and labora, once the residence of the electors of Cologne, it has also a library, observatory and labora tories and all modern accessories Other central tower and the church of the Kreuzberg.

There are some indus a place of pilgrimage There are some industries, chiefly in the suburbs across the Rhine

Pop 90 250

Bonner Edmund English bishop Born about 1500, he was educate at Oxford, and was ordained He became connected with the divorce of matters connected with the divorce of Argon and 1538 he was made His broad and 1538 he was made His public story opponent of the Reformation holds bishopric and during her reign he and by bilizabeth and was in prison when he died, and Bonnet Covering for the head It

Eraved spear throwers were followed by combs, spoons and axe handles. They still abound a Bound and British artist Born in Bone Mulrhead British artist Born in Bone Glasgow in 1876, he studied art there is estilled in London where his etchings are the woollen caps until recently were by men in Scotland and the caps called Glengaries worn by men of the Highland regiments.

A bonnet laird was a laird who wore one of modern ones, also fetch high prices the woollen bonnets. In revolutionary world's chief saleroom for books is Sot France the red bonnet, or bonnet rouge, was the emblem of the republicans. A bonnet piece is a com issued in Scotland about 1530 It bears on it the king's head with a bonnet, not a crown

Bonnie Dundee See DUNDEE, Viscount

Bonus Word used for an addition to wages or salaries, or a payment to shareholders given as an act of grace
During the Great War, bonuses were paid to
most workers to meet the increased cost of
living, and in the civil and municipal living, and in the civil and indirectors services these payments were continued after the war. In the Civil Service the bonus varies according to the official figures of the cost of living Bonuses to shareholders in companies may take the form of a payment in addition to the dividend, but more received it is in the form of shares sometimes. usually it is in the form of shares, sometimes given, but more frequently paid for at a price less than their market value Insurance companies give bonuses to holders of life policies

Booby Name applied to several species of small gannets (Sula) Fearless in man's presence, they breed prolifically on many southern islands, notably Booby Island off N Queensland and S Paul's Rocks off Brazil They make slight nests or bellowed as the cliffs. hollows on the cliffs The commonest are the white-bellied, the blue-eved and the redfooted

Book Name now commonly applied to any literary work larger than a pamphlet. It may denote an organic whole in one or more volumes, one of the volumes, or one of the author's divisions, even when not separately bound such as the nine books of the History of Herodotus Some early printed books, such as the first printed Bible of 1455, were printed on folio spects folded once, but quarto, folded twice, soon arrived, and octavo books of thrice-folded sheets were popularised in Venice by 1501 Wood-cut illustrations were introduced about 1461, and title-pages, headlines and pagmation by 1470

The invention of printing, and especially the improved machinery in recent years, coincident with the spread of education, made for an enormously increased output
The trades of publisher and bookseller, once
united, became distinct, and each flourished.
At the end of the 19th century mass production of books was introduced and clothbound books were sold in millions for 6d. and 7d The British public prefers books in this form, but clsewhere in Europe, paper

backed books are preferred
In Great Britain about 14,000 books are published every year, but many are reprints or translations Collections of books are called libraries, and their contents are protected by the law of copyright

Bookselling is now a large and flourishing business, with its own trade organisations, trade papers, benevolent funds, etc. The selling of books, usually in sets, direct to the public on the hire purchase system is a separate branch. An associated industry is that of bookshyding. that of bookbinding

Book collecting is a popular hobby, and enormous prices have been paid for certain old books, c.o. first folios of Shakespeare First editions of other writers, including some ligines It is a hunting weapon, 2-3 ft. long,

world's chief saleroom for books is Sotheby's in London One of the finest collections outside the British Museum and other national libraries, is that possessed by J Pierpont Morgan.

Book Keeping Making the entries record the financial transactions of a business house They differ according to the nature of the business, but usually include cash-book, day book and ledgers They are kept on the principle known as double entry, by which each transaction is entered twice, once as a credit and once as a debit Thus a sale of lamps will be credited to the lamp department and debited to the customer When the account is paid, the money will be credited to the customer and debited to the cash account. In this way the books should always balance They are regularly audited by accountants. There is an Institute of Book-keepers at 133 Moorgate, London, E.C. and instruction in the subject is given in all colleges where business methods are taught

Bookmaker Name given to a man through whom betting is Bookmakers are found on racecourses, including greyhound racing tracks and also in their offices, where they call themselves turf accountants By taking bets on the various horses in a race they make a book on that hence the name

Before 1926 in Great Britain betting was illegal and bookmakers were liable to prosecution In that year a licensing scheme was introduced, the licence costing £10 a year When in 1929 the betting tax was abolished, a charge of £40 a year for each telephone was made but this and the licence were abolished ın 1930

Book of the Dead Ancient Egyptian work It is a collection of exorcisms, funerary texts and directions for the soul's journey through the underworld Based upon a predynastic nucleus it grew by the Ptolemaic Age into a substantial work in at least 165 chapters It was frequently inscribed on papyrus, sometimes with magnificent illustrations

Book Plate Label placed inside a cover to indicate ownership Following on the practice of ownership Following on the practice of stamping armorial devices upon the outside cover, it appeared first in Germany, as a gift-plate to a monastery, about 1480, in France, which introduced the alternative name ex-librus, in 1529, and in England in 1574 Armorial emblems tended to pass into the pictorial

Bookworm Term denoting the larval form of several species of small beetles (anobum and plunus) which injure old books. They gnaw the bindings and riddle the leaves. Other wingless insects resembling neuroptera (alropos), which infest old, damp books, are preferably called book. lice

Boom Spar for stretching the foot of a sail If there be more than one, that for the mainsail is the main-boom, that for the foresail, projecting beyond the bowsprit, is the jib-boom, and beyond that the flying-jib-boom Should the mizzen or after-sail have one, it is a spanker boom

slightly skewed in its own plane, making an aeroplane flight and returning to the thrower The war boomerang is non returnable

Booster Electrical device for supplying extra voltage when required to outgoing currents on long lines subject to variable loads. Reversible boosters enable the relative duty of dynamo and battery to be adjusted so as to give a constant load Boosters are used also where continuous ourrents operate cars at great distances from the generating stations Boosters are also used in broadcasting Similar devices, attachable to a carrying axle, enable locomotive engines to start with running loads otherwise impossible, by utilising the adhesive weight on that axle

Boot Instrument of torture It was used to extort confessions from suspects or evidence from unwilling witnesses In 17th-century Scotland it was a framework of iron, or wood and iron, strapped round the leg; wedges were driven by repeated mallet blows so as to crush the muscle and shin-bone It was used under Charles II and James II on rebellious Covenanters. A milder form consisted in drawing a wet boot upon the leg

and shrinking it by fire

Booth William Founder of the Salva-April 10, 1829, he became a local preacher, and was for a few years a Methodist minister Soon, however, he became an evangelistic preacher, and in 1865 began work in the east end of London There he founded an organisa end of London There he founded an organisa-tion which spread over England It was called the Christian Mission, but in 1878, after Booth had organised his followers on military lines it was named the Salvation Army Booth became the first general, and 1878, remained its head until he died, Aug 20 1912 His success was due very largely to the help of his wife, Catherine Mumford (1829 90), whom he married in 1855

Booth's cldest son, William Bramwell Booth, chief of staff from 1880, succeeded his father, but in 1928 was deposed He died, June 16, 1929 the year in which he was made

a Companion of Honour

Booth1a Peninsula of N Canada Called after Sir Felix Booth, who financed the expedition which discovered it, 1829 33, it lies on the W of the Gulf of Boothia, adjoining Baffin Land It has an area of 13,000 sq m

Bootle County borough of Lancashire It stands on the Mersey, close to Liverpool, which lies to the south, and is 204 m from London It is served by the LMS Riv One of its chief industries is the smelting of tin and other metals, and there are originaring works. The docks, which are part of the system controlled by the Mersey Docks and Herbour Board are very extensive. Population of the system controlled by the Mersey Docks are the Herbour Board are very extensive. and Harbour Board, are very extensive Pop (1931) 76,799

Bootlegger Man who sells intoxi-where the sale is prohibited. It came from the practice adopted by traders in remote districts of carrying bottles of liquor in the tops or legs of their boots. After the introduction of pro-hibition in 1919, bootlegging flourished in the United States on an enormous scale

Boracic (Boric) Acid Hydrated oxide of boron (H.BO.) It is a whitish, crystalline solid with sweetish alkeline tasto

volcanic regions, such as the Lipari Islands. the Tuscan Maremma, and the Andean region of Atacama, it is largely made artificially from other boracic minerals. It is widely used as an antiseptic

Borah win Borah William Edgar American politician Born June 29, 1865, he was sent to the Senate in 1906 as representative

was sent to the Senate in 1900 as representative of Illinois There he became prominent as the leading advocate of the policy of keeping clear of all European alliances, opposing any connection with the League of Nations and the World Court He was equally insistent that the debts owing to the United States by European nations should be paid in full

Hydrated muiboa hiborate Borax Hydrax (Na,B,O, 10H,O) It is a whitish crystalline salt, formerly derived from Tibet in the crude form of tincal Novadays it comes chiefly from Californian boyax lakes, comes chiefly from Californian borax lakes, Canada and Peru, or prepared from the boraclo acid of Tuscan lagoons—It is used as a flux in soldering, in glass and enamel manufacture and as an antiscptic food preservative mouth irritation it is a useful gargle

Bordeaux It is stuated on the Garonne, 360 m from Parls, and owes its importance to its position. It is shout 60 m from the sea (the Bay of Biscay), and the Canal du Midi connects it with the Mediterranean The cathedral is a fine Gothic pile. Parts of the old fortifications at 11 ct and and the terms is old fortifications still stand, and the towers in the principal square serve as lighthouses. There are a university and an observatory, also remains of an amphitheatre Bordeau, possesses a fine natural harbour with modern equipment. Its chief industry is the export of equipmont apart from this the port does a very large trade and the city has also some manu factures and shipbuilding vards Pop 262,090 The name Bordeaux is given to wine grown near the city They are both white and red, and include Sauterne and Graves

Village of Kent. It is 2 from Sittingbourne Here Borden Here is farm institute, opened in 1930, and controlled by the Kent County Council

Borden Mary Daughter of William Borden of Chicago, she was married in 1911 to Brig Gen Edward Louis Spears Ho first book Janc, Our Stranger, gained immediate popularity, and her later world established her name as a writer They include the Bornante Woman Four O'Clock Terichy Mary Anglo American Borden The Romanic Woman Four O'Clock Terichi Sands, The Forbidden Zone, Flamingo, I Woman with White Eyes, in 1933, Mary d Nazareth, and in 1934 King of the Jews

Borden Sir Robert Laird Canadlai politician Born in Nova Scotia June 26 1854, he became a lawyer at Hallfar Commons as MP for Hallfax, and in 1900 was chosen leader of the Conservative Party In 1911 he became premier, and in 1917 formel a coalition ministry to carry on the wai knighted in 1914 he represented Canada at the peace conference in Paris in 1919 and of the Council of the League of Nations and wal chairman of t Assembly, 1930 the Sixth Committee of the

Borders Name given to any despecially to that between England cspecially to England anl Scotland. In England Northumberland Cumberland and sometimes Durham were the Scotland. Occurring in hot springs and lagoons in border counties, in Scotland they were the

BORNEO

shires of Berwick, Dumfries and Roxburgh For many years the borders were a scene of almost continuous warfare On the English side they were divided into three marches each under a warden, for purposes of defence, und the Scots had a like organisation

The literature of border warfare is virile and attractive Much of it is in Scott's Minstrelsy of the Scott's Border and J M Wilson's Tales of the Borders The Welsh borders

were referred to usually as the marches The Border Regiment consists of the old 34th and 55th of the line Its depôt is at Carlisle

Bordighera Pleasure resort on the 6 m from San Remo with which it is connected by railway The old town is on a hill and the newer town, which is attractively laid out is below. It is famous for its palaces. For over a century before the French Revolulion, Bordighera was the capital of a tiny republic. Pop 4230

Bordon Military camp in Hampshire the S Riv. In the Aldershot area, it is chiefly an artillery camp

Bordone Paris Italian painter Born in 1500, he was a pupil of Titlan His great painting is "The Fisherman presenting the Ring of S Mark to the Doge," in the Academy at Venice There are two works of his in the National Gallery, London He died in Venice in 1571

Bore Cylindrical cavity in the barrel of a firearm. The weapon may be smooth-bore choke-bore, when the cavity is slightly constricted near the muzzle, or rified, when spiral grooves are formed internally with a revolving cutting tool In small-arms the pitch may vary one turn in 17 in to one in 7 ft., in ordnance it is greater The term also denotes the internal diameter of a gun-barrel Sporting guns are usually 12-bore, 16-bore or 20-bore. See Calibre

Bore Tidal wave of great height and force which appears in certain rivers at the period of high, or spring tides. Rushing from the estuary along the gradually narrowing channel of the river, the impelling force resolves the water into a huge wall or wave which carries everything before it

The bore, or aegre, appears in the Severn, the Trent and other English rivers, and is also periodically observed in the Solway Firth, the Bay of Fundy, the Amazon and many

rivers in the Fast.

Boreas Name for the north wind In the north wind, the coldest wind in Greece He was the brother of Hesperus, Notus and Zephyrus, and had his habitation with them in a cave on Mount Haemus in Thrace

Borecole Open-leaved variety of cabbace, also called winter greens
Its lower leaves are stripped for use in Scotch
broth The leaves are wrinkled and curled,
and may be tall or dwarf Cottager's kale is
a hybrid with brussels sprouts, nearly 4 ft
high There are also purple and variegated There are also purple and variegated

Bonaparte The family still exists and holds

the title of prince given to it by Paul V

The Borghese Palace, built between 1590
and 1607 is one of the most magnificent in Rome, and contains valuable works of art The family's summer residence, the Villa Borghese, stands in beautiful grounds to the north of Rome. It, too, contains some wonderful treasures Since 1902 it has been the property of the State

Borgia Famous Italian family Origin-spelled Borja Alonso de Borja Bishop of Valencia was chosen pope as Calixtus III in 1455, and Rome became the headquarters of the family The pope's sister was the mother of the family The pope's sister was the mother of Rodrigo Borgia who became Pope Alexander VI His son and daughter, Cesare and Lucrezia, were the most noted members of the family

Borgia Cesare Itolian soldier The born in 1476 In 1492 his father was elected pope as Alexander VI, and Cesare was made an archbishop and a cardinal He was allowed, an archbishop and a cardinal He was allowed, however, to marry, and his life throughout was that of a leyman As captain general of the papal forces, he showed great ability in bringing the States of the Church into submission and ability of another kind in ruling them, but his refined cruelities and his utter lack of pity or principle have made his name a synonym for evil Those who opposed him were murdered without remorse or scruple He received many honours including at least two dukedoms, and collected together vast wealth In 1503 his father died and Cesare passed the rest of his days in struggling against the many enemies the Borgias had made At one time he was a prisoner, and for some vears he was in Spain, where he was killed in battle, March 12, 1507

His sister Lucrezia (1480-1519), who, after two previous marriages became Duchess of Ferrara, left behind a reputation for learning

and beauty

Borgia Francesco General of the Jesuits Born in Spain, Oct. 10, 1510, he was a son of the Duke of Gandia, whose title he inherent in 1543, and a member of the patent combined in 1543, and a member of the noted family of Borgia For a time he lived at the Spanish Court, but after the death of his wife in 1546 he joined the Jesuits He worked for the order in Spain and Portugal, and in 1565 was appointed general He died Sept. 30, 1572, and was canonised in 1671. His feast is kept on Nov 10 He died

BOT1S King of Bulgaria A son of King Ferdinand, he was born at Sofia, Jan 30, 1894 When his father abdicated in Oct 1918, he succeeded to the throne, and after he came of age proved himself a good ruler In Oct, 1930, he married Giovanna, a daughter of the King of Italy

Borneo Second largest island in the Malay archipelago Situated between Cochin China, and W Australia, it is 850 m long and 600 m broad The area is 290,000 sq m, almost bisected by the equator The main mountain system parallels the N W Borghese Name of a famous Italian lived in Siena, but having become wealthy, some of them settled in Rome One, Camillo, was chosen Pope as Paul V in 1605 A later Camillo married Pauline, a sister of Napoleon

176

is British, comprising British North Borneo, Brunei and Sarawak Pop, British, 890,000, Dutch, 1,700,000

Boron Non metallic element. Its symbol not occur free in nature When fused boracic acid is heated with sodium, boron appears as a chestnut coloured amorphous powder, slightly soluble in water If this be heated with aluminium it separates out in hard, colourless, octahedral crystals, of specific gravity 2 68

Borotra Jean French tennis player versatile tennis player, noted for the speed of his game, first came into prominence in 1921 He has twice wen the men's singles at Wimbledon, and has wen many Hard and Covered Court chapmengains Court championships

Borough Originally a fortified place, but now a town The Scottish form is burgh In the Middle Ages a borough was a place that had received a charter from a king or lord, allowing its inhabitants certain privileges, one being the right or duty of sending members to Parliament. These privileges varied very much, and until 1835 there was little uniformity in the English boroughs. In 1835 an Act of Parliament reformed their government. Each has a mayor and elected council

has a mayor and elected council

To day there are in England and Wales
over 300 boroughs divided into several
classes A county borough, which must have
at least 50,000 people, has the same privileges
as a county, and is independent of the county
in which it is situated In future no place will
be made a county borough unless it has at
least 75,000 inhabitants A non-county borough
is for certain purposes part of a county A
metropolitan herough is one of the 28 boryach metropolitan borough is one of the 28 boroughs in the County of London A parliamentary borough is one that sends one or more members

Boroughbridge Market town of Yorkshire (WR)
It is on the Ure, 17 m from York and 2019
From London, on the LNE RI, Near are the Devil's Arrows, three stones nearly 20 ft. high Pop (1931), 807

to Parliament.

Borromeo Carlo Oct 2, 1538 he was a nephew of Popo Pins IV In 1564 he was made Archbishop of Milan, where he died Nov 3 1584 He was canonised in 1610, and his feast day is Nov 1 A great reformer, Borromeo was noted for his generosity to the poor His cousin, Foderigo Borromeo (1564 1631), was also Archbishop of Milan and a cardinal

The Borromean Islands in Lake Maggiore are so named because they were long the property of the Borromeo family, who had a beautiful residence on Isola Bella

Borrow George Henry English writer Born near East Dereham, Nor folk July 5, 1803, son of Thomas Borrow, a soldier, his boyhood was passed in moving from place to place For a time he was at school in Edinburgh but he is most closely associated with Norwich, where he was articled to a solicitor in 1824 he went to London, and for some years interspersed hack work for publishers with travels through the country, during which he associated much with gypsies In 1832 he became an agent for the Bible Society, and spent some years in Russia and Spain Returning to England in 1840, he

presseu the rest of his life at Oulton in Suffolk or in London He died July 26, 1881
Borrow's chief writings are The Bible in Spain, dealing with his adventures in that country, Lavengro and The Romany Rye, also more or less autoblographical, and Wild Wales He lives by the vividness of his descriptions and the charm of his unique personality

Borrowstounness Burgh and sea port of Linlith gowshire, known usually as Bo'ness It stands on the Firth of Forth, 24 m from Edinburgh, on the LNE Rly It has a good harbour, and does a coasting trade There are some manufactures, and coal mines are near Pop (1931) 10,095

Borstal Village of Kent It is near Chatham, and gives its name to a system by which offenders, between the ages of 16 and 21, instead of being sent to prison, go to a Borstal Institution, where they are trained to earn an honest living The system was introduced in 1902, and there is a Borstal Association to further it, but it only became possible in its present form after the passing of the Prevention of Crimes Act, 1908 Males are sent to Borstal and females to Aylesbury, where they are looked after by the Aylesbury Association Village of Kent

Borzo1 Russian wolfhound It is used for hunting wolves It ranks as a long halred greyhound, slower but more powerful than the English type, with longish jaws, narrow but deep chest, and silky, white coat.

Boscastle Village of Cornwall It is has a small harbour The magnificent scenery in the neighbourhood has made it a centre for holiday makers.

Boscawen Edward English sailor A younger son of the first Viscount Falmouth be was born Aug 19, 1711, and entered the navy in 1726 He won a reputation in several encounters with the French, including the one off Cape Finisterre in May, 1747, when he was wounded In 1747 he was made commander of the fleet in the E Indies and later of that in the Mediter ranean His crowning feat was the destruction of a French fleet in Lagos Bay on Aug 18, 1759 When he died, Jan 10, 1761, he was holding the post of general of marines Bos cawen was called "Old Dreadnought."

Boscobel Village of Shropshire It is manor house, the seat of the Penderels which still stands, Charles II took refuge after his defeat at Worcester and here he found shelter in an oak tree

Boscombe District of Bournemouth. To the east of the town, and on the S RIV, it is noted for its beautiful chine and woods. See BOURNEMOUTH

Bose Sir Jagadis Chandra Indian phsylected at Calcutta and Cambridge and in 1885 became professor of physics in Calcutta. In 1896 he devised a coherer of the type since developed in wireless communication, together with delicate instruments for generating and studying electrical waves After laborious researches with his orescograph, which multi-plies the incidents of plant growth ten million times, he demonstrated the essential identity of the vital mechanism of animals and plants Knighted in 1917, he became FRS 1920

Bosnia District of Europe, now part of Yugoslavia The Save and the Drina form its northern and eastern boundaries, and it covers 16,200 sq m Serajevo is the capital In 1463 it was conquered by the Turks, and it remained under Turkish rule until 1878 when, with Herzegovina, it was annexed by Austria Hungary In 1919 it was given to Yugoslavia.

Bosphorus Strait connecting the Sea of Marmara, also spelled Bosporus, meaning ox ford The channel is 18 m long, ranging from 800 yds to 21 m broad Treatles in 1841 and 1878 guaranteed to Turkey the guardlanship of the strait, which is now controlled by a League of Nations commission

Boss Projecting mass or block In architecture it is used as an ornament, for instance at the intersection of the ribs in Gothic vaulting It is also used as a projecting ornament on a shield or buckler In mechanics there are several kinds of boss, but all with the same idea, something that stands out The enlarged part of the shaft on which a wheel is keyed is called a boss

Jacques Bénigne Bossuet at Dijon, the son of a lawyer, Sept 27, 1627, he was ordained priest in 1652, and after spending some years at Metz went in 1660 to Paris, where he made a great reputation as a preacher, his funeral orations being especially famous He was made tutor to the dauphin, son of Louis XIV, and was Bishop of Meaux from 1681 until his death, April 12, 1704 Bossuet ranks as one of the great preachers of the world In addition to his published sommons there exist his Discourse upon Universal History, written for his royal pupil, and other writings ecclesiastic and orator Born and other writings

Boston Borough, scaport and town of Lincolnshire d market Near the mouth of the Witham it is 107 m from London, on the LNE Rly The chief buildings are the large church of S Botolph, with a high tower known as Boston stump, and the guildhall In 1931-32 the tower was restored at the expense of American triends In the 13th century Boston was a flourishing port, but gradually the river was barred by silt. In the 19th century a new channel to the Wash was cut and new docks were made The port has now a coasting trade and engineering and other

works. Pop (1931) 16,597

Boston City and scaport of the United Chusetts It stands on an opening of Massachusetts It st chusetts Bay There are docks and many miles of quays Boston now covers nearly 45 sq m, and includes Dorchester, Charleston and other districts, once independent areas from the water There is an underground electric railway

A great educational centre, it has two universities, and in the city are some of the buildings of Harvard Tho headquarters of soveral learned societies, it is also a musical

Boston is one of the largest ports in the country, and from it steamers go to nearly every part of the world It is also one of the bases of the U.S.A. navy which has large docks, workshops, storehouses and repairing yards here Pop (1930), 781,188

Boswell James. Scottish writer Born in Edinburgh, Oct 29, 1740, he was the eldest son of Lord Auchinleck, a Scottish judge He himself studied law and travelled a good deal In 1763 he made the acquaintance of Samuel Johnson, and hence-constant his main accountion was recording acquaintance of Samuel Johnson, and nence-forward his main occupation was recording the sayings of that great man, whom he visited on his frequent journeys to London, and with whom he made a famous tour in Scotland On his father's death he became Laird of Auchinleck in Ayrshire and he died, a drunk-ard, May 19, 1795 A man apparently of no great ability, but with an insatiable interest in men and things, Boswell wrote in his Lafe of Samuel Johnson a supreme biography He of Samuel Johnson a supreme biography He also wrote Journal of a Tour to the Hebrides and An Account of Corsica.

Bosworth Short name for the market known as Market Bosworth The Battle of Bosworth was fought near here on Aug 22 1485, between Richard III and Henry Earl of Richmond Lord Stanley led his men to the support of Henry, and Richard was defeated and slain, Henry becoming king as Henry VII Dr Johnson was usher at the grammar school at the grammar school

Botanic Garden Garden in which plants are grown for purposes of study and research One was opened at Oxford in 1621, and the Society of Apothecaries started one at Chelsca later in the century Botanic gardens were established in Edinburgh and Dublin, and by the authorities of Cambridge and Trinity College, Dublin They already existed in Paris and elsewhere

The Royal Botanic Gardens at Kew, which began as the private garden of the royal family, are world famous for their collection of plants, till 1932 the Royal Botanic Society of London had a garden in Regent's Park, founded in 1839

Botany Study of plant life and one of the two subdivisions of the science of biology Plant morphology deals with plant structures, physiology with the functions and living activities, ecology or plant geography with a plant's relations to its environment, while the study of fossil plants forms a section of palaeontology Farly botanical science was concerned

botanical science was Early concerned chiefly with the classification of plants and the study of external morphology, but with the advent of the compound microscope the minute structure of cells and tissues became revealed, and the study of microscopic plant life was rendered possible Gradually the physiology of plants grew in importance owing to the increasing elaboration of technique and the aid of the sister sciences, chemistry and physics In the classification of plants (systematic botany) the earliest attempts were artificial Linguage then introwere very artificial Linnaeus then intro-duced a more natural scheme which in turn has become superseded by systems based upon more recent research. The past history of plants has emerged since about 1880 from a chaotic state into a defined science of palacobotany, and the relation of plants to economic uses forms the important subject of economic botany

Botany Bay Inlet on the coast of New South Wales First sighted by James Cook in 1770, Arthur Philip went there in 1787-8 to found a penal colony but proceeded 15 m. farther north to

he became a regular contributor to Traser's ne pecame a regular contributor to Traser's Maja... under his initials AKHB, and in 1859 published the first of his three volumes of papers entitled Recreations of a Country Parson, which enjoyed wide popularity Another series, Graver Thoughts of a Country Parson, appeared between 1862 and 1875 He was moderator of the General Assembly in 1890, and died March 1, 1899

Do-1. Robert English solentist.

Boyle Robert English scientist The seventh son of the 1st Earl of Cork, he was born Jan 25, 1627 He was educated at Eton and after some years of foreign travel lived first at Stalbridge, Dorset but later removed to Oxford There he carried out the removed to Oxford There he carried out the series of experiments on the properties of air which resulted in his improved air pump and his formulation of the celebrated law now known by his name Boylo's lav is that "the volume of a given mass of gas at a given temperature is inversely proportional to its pressure" He belonged to the group of natural philosophers who, in 1663 became known as the Royal Society in 1680 he was chosen president, but he declined the honour Boyle was the first to recornise the true nature of an was the first to recognise the true nature of an element and to distinguish between a compound and a mixture He died Dec 30, 1691

and a maxime are died Dec 30, 4691
The Boyle Lectures delivered in the church of S. Mary-le-Roy, Landau, are a course of eight sermous delivered each year in defence of Christianity. The money for them was left by Poyle. by Boyle

Boyne River of Ireland It rises in Co Kildare and enters the Irish Sea just below Drogheda It is about 80 m long, and on its banks are Trim and Navan In a femous battle fought here on July 1, 1690, William III defeated James II and his French class The battle decided the struggle between the two longs and since that the day between the two kings and since that the day has been kept as a holidar in the N of Ireland An obelisk marks the site of the battle, which took place about 2 m from Drogheda

Boys' Brigade Organisation for for can founded in Olasgow in 1883 by Sir William Smith A religious organisation, it consists of companies formed in connection with churches and other Christian societies. The boys are drilled, but the brigade is not a military organisation. The Boys' Life Brigade, founded in 1899 is now united with it. The strength is over 100 000. The junior organisation which has about 50 000 members is known as the Life Boys. The headquarters are at Abbby House, Westminster, London, S. W.

Boy Scouts Organisation for boys Robert (later Lord) Baden Powell in 1908 The boys went a distinctive dress and their motto is Be Trepared Sconts are graded in three diases—well cuts, aged 8 to 11, scouts, aged 11 and upwards and rover scouts, aged 17 and upwards Each boy belongs to a patrol and a number of patrols form a troop Scout masters are in command of the boys Balges masters are in command of the boys Bauges are given for proficiency in various handlorafts and other useful activities. The movement has spread all over the world and there are over 2000,000 scouts. In 1929 a world jamboree was held at Birkenhead. The headquarters are at 25 Buckingham Palace Road London S.W. 1

appeared under this pseudonym, which is a corruption of Moses, a name jocularly given to the novelist's youngest brother

Brabant Name of a province in Belgium Brabant Name of a province in Belgium Both were once part of a duchy which existed from about 1200 to 1430, when it became part of Burgundy Later it was Spanish and it was divided when the Netherlands revolted against Spain in the 16th century. The northern part then became part of the Dutch Republic, but the southern part remained Spanish. It dater became Austrian, and in 1830 was included in the new kingdom of Belgium. It is the district around Brussels. The eldest son of the King of the new Angular of the Belgians is called the Duke of Brahant.

See LEOPOLD III

Bracegirdle Anne English address She was born about 1674 and introduced to London by the Bettertons. In 1688 she played Lucia in Shadwell's Squire of Alsatia and was later successful in Congrete's blars Her Shakespearcan favourites were lsabella, Cordelia and Portia A rivalry between her and Mrs Oldfield led to her leaving the stage in 1707 She died in Sept, 1748, and was buried in Westmineter Abbey

Brachiopoda Group of marine the ordinary bivalve molluse in having two shelly valves which are however, always unequal From their resemblance to ancient lamps, they have been termed lamp shells The lower valve is the larger and is provided with a beak and an opening through which passes a stalk for attachment Apart from living Parchlonds, a larger number of article. living brachlopeds, a lurge number of extinct species are found as fossils

Bracken Species of tern (pteris aquilina) Common in Britain, it is characterised by a creeping rootstock from which arise two ranks of leaves bearing on their margins linear groups of spore cases When dried bracken is used as bedding material for cattle, and as a packing for storage of hotatoes and other root crops

Bract Term used in botany The name is given to a point on a plant at which a flower or floral axil is produced instead of an ordinary leaf bud or branch it is used to describe the bract proper, leading to a single

Bracton Henry de (or Bratton) English Bracton lawyer called 'the tather of English jurisprudence. He took orders was for many years a clork in the royal service and from 1215 until his death was regularly employed as a judge. He hold various benefites and was successively Archdeacon of Barastapit and Chanceller of the Diocese of Exeter 'His Treatise on the Laws and Customs of England, though nover finished, is one of the most valuable sources for the history of English legal institu sources for the history of English legal institu-tions He died in 1268

Bradbury Colloquial name for the treasury notes for £1 and 10s. first issued in 1914 They were so called because they were signed by Sir John Bradbury (afterwards Lord Bradbury), then permanent Secretary to the Treasury

was held at Birkonhead. The headquarters are at 25 Buckingham Palace Road London S W 1

Boz Pen name adopted by Charles Diokens London in 1837 and published her first novel sketches for the Morning Chronicle (London), published afterwards in book form, as Sketches by Boz in 1836. The Piclwick Papers flist was hardly less successful. During the rest of

her life she continued to produce novels with in March, 1693, and was educated at Balliol remarkable facility and success, though none College, Oxford, where he specialised in astroattained the popularity of Ludy Andley's Secret | nomical and physical studies | He took orders remarkable facility and success, though none attained the popularity of Lady Audley's Scoret and Aurora Floyd She married in 1874 John Maxwell, a publisher, and their son, W B Maxwell, is a novelist She died Feb 4, 1915

Bradfield Village of Berkshire It is 8 m from Reading and is known for its public school, which owes much to the inspired work of Dr H B Gray, who was head master from 1880-1910 In the grounds is a theatre on the Greek model, in which Greek plays are given Another Bradfield is a village 7 m from Sheffield

Bradford City and county borough of Yorkshire It stands on the Aire 9 m from Leeds and 191 from London, on the LMS and LNE Rlys It is also served by canals The Church of S Peter was made the cathed the county of the Church of S Peter was made the cathedral when, in 1919, the city became the scat of a bishop Bradford is the great centre of the woollen and worsted industry and in its industrial suburbs, such as Manningham, are large mills, dyeworks and other centres of activity It has also engineeres of activity It has also engineer-Pop (1931) 298,041

Bradford William Leader of the Pilgrim Of Yorkshire birth, be was born in 1589 Embracing Puritan opinions, he migrated to Holland and carried on business as a weaver at Leyden for some When the emigration of the English refugees to America was projected, he became one of its most active promoters and was one of the party that sailed in the Mayflower From 1621 until his death, with only a few short intervals, he served as Governor of Plymouth Colony He wrote a valuable History of Plymouth Colony Bradford died May 9, 1657

Bradford-on-Avon Urban district of Wiltshire It stands on the Avon, 9 m from Bath and 97 from London, on the G W Rlv It is famous for its church, one of the oldest Saxon churches in England Pop (1931) 4735

Brading Village of the Isle of Wight It Rly A Roman villa has been unearthed here The village stocks and bull ring can still be seen Pop 1696

Bradlaugh Charles Engusa Ive-thinker and politician The son of a London solicitor's clerk, he was While working as a clerk, born Sept. 26, 1833 While working as a clerk, he came under the influence of a free-thought group and, owing to his opinions, was dismissed from his situation Later he founded a free-thought journal The National Reformer which involved him in several conflicts with the law on account of its outspoken opinions. In carrying on The National Reformer he was associated with Annie Besaut. Their publication of the National Research of the National Res entitled The Fruits of Philosophy resulted in a prosecution, and they were sentenced to a heavy fine and imprisonment, but the conviction was quashed on technical grounds

it the general election of 1880 Bradlaugh was elected as a radical MP for Northampton The cupon followed a long and violent parliamentary struggle over his capacity as a pro-fessed atheist to take the oath and his seat this lasted until 1886 when Bradlaugh trlumphed He remained M.P for Northampton until his death Jan 30, 1991

Bradley James English astronomer He Emperor of Brazil in 1 was born at Sherborne, Glos, was driven out in 1889

and was for a short time vicar of Bridstow, but resigned his living on being appointed Savilian Professor of Astronomy at Oxford in 1721 In 1742 he succeeded Halley as Astronomer Royal His great contributions to science are his discoveries of the aberration of light. He died July 13, 1762

Bradman Donald George Australian cricketer Born at Cortamundra, New South Wales, Aug 27, 1908, he was educated there and became famous as a cricketer Having played for the state, he was chosen to play for Australia in 1928 against the English team His scoring powers placed him in the front rank of batsmen, and he more than maintained his high reputation when he visited England in 1930 as a member of the Australian team In the test match at Leeds he scored 334 runs, a record for these matches, and he finished the tour with the remarkable average of 98 66

Bradshaw George English printer and publisher, and founder of Bradshaw's Railway Guide. He was born at Pendleton, Lancashire, July 29, 1801, of Quaker parentage, and carried on business in Manchester as an engraver and printer The publication that has converted his name into a household word was first issued as Bradshaw's Railway Time-Tables in 1839 Next year the title was changed to Bradshaw's Railway Companion, and in 1840 it began to be issued at regular monthly intervals as Bradshaw's Railway Guide. The Continental Bradshaw was established in 1847 He died Sept 6 1853

Bradshaw John English lawyer A native of Cheshire, he became a barrister in 1627 In 1647 he was appointed Chief Justice of Chester, and in 1649 was chosen to preside over the court that tried Charles I His services were rewarded by his appointment as Attorney General of Chester and N Wales. and Chancellor of the Duchy of Lancaster. He was President of the Council of State, 1649-52, but soon became estranged from Cromwell, whom he suspected of aiming at the crown. He was MP for Stafford in 1654, was again in Parliament in 1659, and died Oct. 31, 1659 In 1660, having been attainted, his body was hanged at Tyburn

Braemar Village and pleasure resort of Aberdeenshire It is 18 m from Ballater, on the Dee The district round the village is also called Braemar It is famed for its scenery and is in a region of deer forests Balmoral and Abergeldie castles, Mar Lodge and other residences are in the neighbourhood A Highland gathering is held here every year

Braganza Name of the femily that with short intervals, ruled in Portugal from 1640 to 1911 and in Brazil from 1822 to 1889 Braganza is a small city near the Spanish frontier, and in 1442 Alphonse, a natural separation of John 1885 Braganza is a small city near the Spanish frontier, and in 1442 Alphonse, near the Spanish frontier, and in 1442 Alphonse, a natural son of John I, King of Portugal, was made its duke In 1530 one of his descendants claimed the throne, and in 1640 another became king Members of the family retained the crown which In 1831 passed to a woman Maria. She married a German prince, Ferdinand of Save-Coburg, so the descendants of this union, who include Manuel, king until 1911, are only Bragauzas in the female line A member of the family, Pedro, was made Emperor of Brazil in 1822, but his successor was driven out in 1889 Bragg Sir William Henry English scientist 2, 1862, he was educated at King William 2, 1862, he was educated at King William 8 Collego, Isle of Man, and Trinity College, Cambridge Having been third wrangler, he was Professor of Physics at Adelaide, 1886 1908, at Leeds 1909 15, and in London 1915 23 In 1923 he was appointed Fullerian Professor of Chemistry at the Royal Institution, and Director of the Davy Faraday Research Laboratory His work in physical chemistry has been concerned with the study of the minute structure of crystals, radio of the minute structure of crystals, radio activity and X rays In this he has been assisted by his son, William Lawrence Bragg, a Fellow of Trinity College, Cambridge, who in 1919 was appointed Professor of Physics at Nambridge William 1919 was appointed Professor of Physics at Nambridge William 1919 was appointed Professor of Physics at Manchester Both have received many honours, including the F.R.S, and in 1915 jointly a Nobel prize Sir W H Bragg was knighted in 1920, awarded the Order of Merit in 1931 and the Faraday Medal in 1936

Brahe Tycho Danish astronomer Born studied first at Copenhagen and then succes sively at Wittenberg, Rostock and Augsburg After a period of astronomical observation in Denmark, he travelled abroad and intended to settle at Basel At the invitation of Frederick II, however, he returned to Denmark to establish an observatory on the Island of Hyeen in the Sound, and the royal favour secured him an ample income Frederick's successor, Christian IV, was less well disposed to Tycho and withdrew his pension

A new patron was soon forthcoming in the Emperor Rudolf II, who, in 1599, induced him to migrate to Prague, where he had as colleague the celebrated Kepler It was Kepler who edited Tycho's principal work, Astronomiae Instaurates Mechanica, published posthumously in 1509. Trube prepayable to the second of the in 1602 Tycho propounded a scheme of the solar system which was an attempt to com promise between the Ptolemaic and Copernican systems His chief services to astronomy were his improvements in the art of observation and his compilation of a catalogue of fixed stars, later extended and corrected by Kepler He died at Prague Oct 24, 1801 In 1931 a museum to commemorate Brahe was opened on the Swedish island of Ven

Brahma Showy fluffy domestic towl It was produced in America by crossing two Asiatic breeds and won popularity as a table bird, and a good layer, but over cultivation of its decorative appearance caused its deterioration for practical purposes

Brahma Hindu deity He is the supreme soul, all embracing divine ossence, source and goal of existence, self oreated from his own thought To male Brahma more comprehensible sages invented the report of the soulder of the soulder of the sound of the soulder of the sound of the soulder of the sound of the myths of his generation from a golden egg or a lotus. In art he is represented as four headed, and four armed, riding a goose or swan Hindu religion. It is a modification of Ved.

ism which arose about 1000 BC Its scriptures comprise four sacred inspired books, viz the Rigreda, Sāmaveda, Yajurveda und Athar vareda Each has attached to it prose writings called Brahmanas, explaining ceremonial application of sacred texts. To these are appended

cation of sacred texts 10 these are appeared discourses, called Arenyal as and Upanishads, on the nature of Brahma and the Cosmos In the Upanishads Brahma is variously declared to be (1) An absolute impersonal being (2) A divine all pervading essence

(3) A personal God, creator of life inspired books contain the code of Manu, Inspired nooks contain the code of Manu, regulating the way of boliness for believers Brahmanism, by its insistence on faultless ceremonial, exaited the priesthood almost to divinity, by its doctrine of re birth and desire for progress it encouraged caste distinction. It aimed, in individuals, at the extinction of carnal desire, so that the soul might more swiftly be reabsorbed in the infinite spirit

Brahmaputra River of India Its male source is in a glacter in Tibet, 16,000 ft high It flows east for 1000 m then, called the Dihong, traverses the Assam valley for 450 m After passing through the Rangpur district, it flows south until it reaches the main Ganges stream at Caslanda and enters the see through the Goalanda and enters the sea through the Meghna estuary It is partly navigable, but its chief value is for irrigating the plains where rice, jute and mustard grow Its total length is 1800 m

Brahms Johannes German composer May 7, 1833, and in 1853, on tour as a planist, impressed both Joachim and Schumann with his genius Steady devotion to his gift was repaid in creative ability, which, combining philosophy with romanticism, produced master pleces worthy to succeed those of Beethoven Brahms nover attempted opera, but excelled in all other forms of music He died April 3, 1897, in Vienna

Braila Town and river port of Rumania It stands on the left bank of the Danube, just over 100 m from its mouth in the Black Sea With a good harbour and extensive docks, the port can be used by large vessels. It is also connected with Bucharest, 100 m. away, and other places by rail. The town has some manufactures, but its oblef industry is shipping as much of the merchandise of Rumania including great quantities of grain, pass through it. The non of 63 310 includes pass through it The pop of 68,310 includes many Greeks

Braille System System of emposed characters for enabling the blind to read by touch Some thing of the kind has been in use since the 16th century The earlier types were for the most part simplified forms of roman capitals, but in 1834 Louis Braille, a professor at the Institution Nationale des Jeunes Avougles in Paris, perfected the 'point' system which bears his name and is now the most generally used 'The Braille system is based on six projects are provided in an ollions contenting two points arranged in an oblong containing two horizontal and three vertical lines thus letter of the alphabet is represented by a com-bination of dots embossed on one or more of the points

Brain Chief centre of the nervous system of the higher animals It is contained within the skull or cranium. The brain substance, like the spinal cord, consists of grey and white matter, the groy matter forming a thin superficial layer or cortex the whole organ being covered by three membranes, an inner ma mater, a middle arachnoid layer and an outer tough dura mater. The brain of the mammals is divided into the cerebral hemispheres or cerebrum, in front and on ten the spheres or cerebrum, in front, and on top the pons, cerebellum and medulia oblongata, the last being continuous with the spinal cord and from these arise twolve pairs of nerves to the head and body

The weight of the brain of an average man is 491 oz , that of a woman is 44 oz

Braintree Market town and urban district of Essex, on the Black. water, 45 m from London, on the L N E Rly The chief industry is the making of artificial silk at the mills of Messas Courtaild Brewing Pop (1931) 8912

Brake Mechanism for slowing down or stopping a machine or vehicle. This is done by the action of a block, or shoe, held in close contact with the rim of a wheel by means of levers, or by the action of a flexible band upon a wheel or driving shaft In some forms the band is pressed against the inner surface of a drum upon the shaft Vacuum brakes are used for railway carriages, this type being continuous in action and under the control of the guard or engine driver While a vacuum is maintained the brakes are free, but upon lowering the vacuum the brake shoes are brought into contact with the wheels

Bramah Joseph English inventor He was born at Stainborough, Yorkshire, April 2, 1749 While a young man he went to London and worked as a cabinet maker, but soon showed a marked genius for mechanical invention In 1784 he patented the famous Bramah Lock, and in 1795 invented the hydraulic press Among his other inven-tions is the beer engine for drawing beer, and he appears to have been the first to suggest the idea of screw propulsion for steamships died in London, Dec 9, 1814

Bramante Donato Italian artist Born in 1444 he lived for some years at Milan, where he studied the arts, especially architecture About 1500 he went About 1500 he went especially architecture. About 1500 he went to Rome where his work brought him to the notice of Pope Alexander VI. He designed some buildings at the Vatican for Julius II and was commissioned to prepare the plan for S. Peter's, on the rebuilding of which he was working when he died, March 11, 1514

Bramble (Rubus fruticosa) Plant of the rose family of which there are many species. The stems are thick and are many species. The stems are thick and fleshy and covered with thorns, prickles and hairy bristles. The bushes are of partially erect growth but the long stems frequently bend and re-root themselves in the soil, thus producing fresh plants The commonest British variety is the blackberry (q r)

Brambling Small bird allied to the chaffingh A native of Scandinavia, Lapland and Siberia, it is only a visitor to Great Britain in winter It is sometimes called the mountain finch

Bramley Frank English artist Born ho studied in Antwerp and Paris In 1884 his In 1894 he was accepted by the Academy In 1894 he was elected A R A and in 1911 R A He died Aug 10 1915 Bramley's most famous picture is "The Hopeless Dawn" in the Tate Gallery, London

Brampton Baron English judge Born Sept 14, 1817, Henry Hawkins was the son of a solicitor at Hitchin Educated at Bedford, and in 1843 called to the bar, he rapidly obtained a good junior practice advocate, excelling in the art of cross examination. Among the many causes callers in which tion Among the many causes calebres in which he was employed was the Tichborne case Made a judge in 1876 he gained the reputation of being a hanging judge of the old school, but his knowledge of the criminal law and the ability with which he administered it were

beyond question great He retired in 1898 and was raised to the peerage as Baron Brampton All his life Lord Brampton was a keen sportsman and was, for many years, standing counsel to the Jockey Club He died Oct 6, 1907, when his title became extinct

Bran By-product of grain. It is obtained it is ground, and is used in making brown It is also a valuable feeding stuff for cattle and poultry and, besides being used in medicine, is employed in some manufacturing processes for clearing liquids

President of the c The son of Sir Brand Sir Jan Hendrik P Orange Free State H C Brand, Speaker of the Cape House of Assembly, he was born Dec 6, 1823 He studied law and practised at the Cape bar until 1863, when he was elected President of the Orange Free State, an office which he held until his death Under his administration the Free State twice engaged in war with the Basutos He was invited to become President Basutos of the Transvaal and thus unite the two Dutch republics, but declined to be a party to a manoeuvre which he regarded as hostile to Great Britain He was knighted in 1882 and died July 14, 1888

Brandenburg District of Germany It is the region around Berlin and is in a sense the nucleus of the republic It became a separate state about 1130 and in 1356 its ruler, then a margraye, was made an elector In 1415 a member of the Hohenzollern family became elector, and under his descendants the land grew steadily in size and importance In 1701 the elector was made King of Prussia and since then Brandenburg has been a Prussian province, covering about

15,072 sq m See Prussia

The city of Brandenburg is on the Havel about 36 m from Berlin It has some old about 36 m from Berlin It has some old buildings, including the cathedral and the town hall, and also some fine modern struc-The cathedral town, one of its three is on an island in the Havel Pop tures parts, 59,297

Brandes Georg Morris Cohen Danish writer Born Feb 4, 1842, he studied at the University of Copenhagen and in 1862 won the university gold medal for an essay on "The Nemesis Idea among the Ancients" His first important work was a volume of essays on the Danish poets entitled decibers Studies (1868) and patients the studies of the Danish poets entitled Assthetic Studies (1868), and within the next few years he established his reputation as one few years he established his reputation as one of the leading critics of Europe His greatest book is Main Currents of Nineteenth Century Literature Later works include monographs on Disracli (1878), Ibsen (1899), and his great Study of Shakespeare (1897-98), which was translated into English by William Archer His later works, like others translated into English, include The Life of Goëthe and The Jesus Myth He died Feb 19, 1927

Brandon Market town of Suffolk It is on the Little Ouse, 7 m from Thetford, on the LNE Rly It is the one

Near is Brandon Park, a seat of the Duchess of Montrose and formerly of the Dukes of Hamilton The title Duke of Brandon was given in 1711 to the 4th Duke of Hamilton and has since been held by his successors in the title

Brandy Distilled wine, or distilled and fermented fresh grape juice

Brandy, originally colourless, becomes brown and golden from caramel and storage in oak and golden from caramet and scorage in cases. The average alcoholic proportion is 53 per cent. Old brandy, containing less alcohol, is better as medicine. The best comes from Cognac, in Charente, France. Liqueur brandy is first-class brandy, old and well matured. In Great Britain there is a duty of £3 15s 4d per proof gallon on all brandy mported

Brandywine Tributary of the Dela-brated as the scene of the victory of Sir William Howe over the American colonists under Washington on Sept 11, 1777

Brangwyn Frank English painter Born May 12, 1867, his avperience was gained in earliest artistic experience was gained in Bruges and in his father's establishment for making church embroideries and decoration Work in England with William Morris stimu lated his craftsmanship and a visit to the East imbued him with the love of rich colour which distinguishes his painting. He was elected A R.A. in 1904 and R.A. in 1919 Examples of his work are in many of the museums of Europe, and his trescess in the Royal Exchange, London

Branksome S Rly, it is famous for its chine, said to be the finest on the south coast

Brantford City of Ontario It stands on the Grand River, about 55 m from Toronto It is on the main line of the CN R, and has important manufactures A canal connects it with Lake Erie 30 m distant The city is named after Joseph Brant (1742 1807), the Mohawk chief Pop 30,107

Brantôme Pièrre de Bourdeilles Fronch author Born about 1540, a younger son of the Baron de Bourdellies, he was intended for the church and held several benefices but preferred a soldier's life and saw a good deal of active service. He was in the suite of Mary Stuart when she left France for Scotland He also visited England, Spain, Portugal and Morocco In 1589 he retired into private life and amused himself by composing his memoirs of Hommes Illustres and Dames Brantome s adventurous life and Galantes | distinguished social connections render his work one of the most important sources for the secret history of the 16th century. He died July 15, 1614

College of Oxford University Founded in Brasenose versity 1500 by the Bishop of Lincoln and Sir Richard Sutton, it has a direct connection with Brase nose Hall, which existed prior to 1260 The name is said to derive from an old brass knocker, in the shape of a nose

Brass Yellow alloy of copper and zinc in times small quantities of lead, tin or iron added for special purposes. An excess of zinc renders the alloy less ductile and tenacious, while iron increases its hardness and tenacity Brass is very malleable fusible, ductile and readily

cast and machined

Muntz or yellow metal is a variety of brass containing 60 per cent. of copper it is stronger containing ou per cent of copper it is stronger than ordinary brass and can be worked and rolled while hot As it resists corrosion well it has been employed for sheathing ships, but now is used largely for propellers bows and trays The hardest of the brass alloys is Sterro metal, an alloy containing in addition to copper and zinc, both iron and tin.

Brass Memorial to the dead Early in began to take the place of carred stone in sepulchral memorials and continued in general use for over 300 years. They were made of sheet brass (latten) let into the church pave ment, and thus had the advantage of causing no obstruction. In addition to their high antistic positions. artistic merit, monumental brases are of great value to the historian as family records and for the details of contemporary costume and armour

Brassey Thomas English contractor Born in Cheshire Nov 7, 1805, be became a surveyor and was in business in Birkenhead Soon he undertook a contract for railway work and in a few years was at the head of a great undertaking which carried out contracts in all parts of the world He died

Dec 8, 1870

Brassey's eldest son Thomas Erassey, was born Feb 11, 1836, and educated at Oxford He is known as the founder of The Naval Annual, and the owner of the yacht Sunbeam. He also wrote Work and Wages and other books. From 1865 to 1886 he was a Liberal M P and From 1865 to 1886 he was a Liberal M P and took a special interest in naval questions He was Governor of Victoria, 1895 1900, and he died Feb 23, 1918 In 1880 Brassey was made a knight, in 1886 a baron, and in 1911 an earl In 1860 he married Anna Allnutt (d 1887) author of A Voyage in the Sunbeam, and in 1890 Sybil de Vere daughter of Viscount Malden His titles passed to his only son, Thomas Allnutt Brassey, but became extinct when he died Nov 11, 1919

Bratislava Citvand river port of Czecho slovakia. It was formerly Bratislava slovakla. It was formerly in Hungary and was called Pressburg the Magyars called the Porsony It stands on the Danube, about 50 m from Vienna, and is the centre of a considerable trade by rail and river There are also some manufactures. The cathedral is a Gothic edifice The castle. on the Schlossberg is in ruins Pressburg was the capital of Hungary from 1541 to 1784 Pressburg In 1919 it was given to Czechoslovakla. Hero is a Slovak university founded in 1919, and the city has an important broadcasting station

the city has an important pronucasting station Pop (1930) 123 852

Braxy Disease of sheep The victims are tract the allment in the autumn Very few recover It is believed that the disease is recover it is believed that the disease is caused by alteration from a poor to a very rich diet. Whilst cure is almost hopeless braxy can be prevented by careful regulation of diet.

Bray Seaport and watering place in Co S E of Dublin and has a few small industries, but depends mainly on its attractions as holiday resort for the inhabitants of Dublin Pop (1926), 8639

Bray Town of Berkshire On the right head its name is celebrated owing to the balled of The Vicar of Bray The identity of the accommodating vicar is uncertain. The dates of the song indicato Francis Carswell vicar from 1667 to 1709, but there appears to have been an earlier incumbent, Simon Aleyn, vicar from 1540 to 1588, whose principles were equally elastic. Pop 3400

Brazil Republic of S America, the

Covering 3,275,510 sq m it is bounded on two sides by the Atlantic Ocean and elsewhere by other republics On the whole it is a level and fortile area, but has vast forests and tracts as yet almost unknown The Amazon is the chief river, others are the Madeira and the Parana. Rio de Janeiro is the capital and the largest place Other cities are Sao Paulo, Sao Salvador (Bahia), Recife, Belem and Porto Alegre population is estimated at (1931), 41 477,827, mostly in the coastal provinces. There are mostly in the coastal provinces There are about 100,000 Indians, and colonies of Italians, Portuguese and Spaniards

The chief products are coffee and rubber-Maize, wheat and other foodstuffs are grown, as well as cotton, tobacco and other tropical products There are some manufactures The

BRAZIL NUT

products There are some manufactures are forests are an important source of wealth and the country is rich in minerals, especially manganese, gold and fron
HISTORY—Since 1889 Brazil has been a republic Previously it was an empire from 1822, and before that date a possession of Portugal, a Portuguese sallor having discovered it in 1500. It is a federal republic with a constitution not unlike that, of the United States stitution not unlike that of the United States There is a president elected for four years and a national congress of two houses The chamber three for each of the 20 provinces and three for the Tederal district. There is a federal court of justice at 1110 The country has an army recruited by compulsory service and a small navy In 1926 the carroncy was reformed, The country has an The milreis, which had fallen heavily, was stabilised at nearly 6d The metric system of weights and measures is used Until 1926 Brazil was a member of the League of Nations

In 1930 there was serious trouble in the republic and a dictatorship was established This lasted until 1932 when there was a return to normal forms of government An economic crisis, caused by the poor piles paid for the coffee crop, followed and in 1931 the country suspended payment of the interest on its

foreign loans

Brazil Nut Seed of Bertholletta excelsa, thidaceae This flourishes in tropical America Lach fruit vields about 20 seeds, triangular in form and with a hard noody cover nuts are not only edible in their natural state, but yield a fine cooking oil, which is also used by painters and watchmakers

Brazil Wood Term applied to several woods of the order Leguminosae The colouring matter extracted from it is called brazilin. It yields various tints of deep red. It is used to some extent in calico printing, but chiefly to form lakes for

tinting papers

Breach of Promise Failure to fulfill on engagement of marriage By the common law of England an action in contract lies for the refusal or failure of either party to fulfil a promise of marriage For obvious reasons it is usually the woman who is plaintiff, but cases of male plaintiffs are on record. It is the only action in contract where exemplary damages may be awarded, and then only when the breach of promise has been aggravated by seduction. A promise to marry given by a person who, to the knowledge of the other party, is married is void as against public policy, and no action will lie if, on becoming free to marry, the promiser rofuses to fulfil it

Bread One of man's chief foods Any cereal ground to a flour, made into a paste or dough with water, and then baked, is in the broadest sense bread, but the term is particularly applied to a wheaten flour product of the kind which has been subject to fermentation by means of an enzyme, such as yeast As bread is a basic food its manufacture and sale are strictly regulated by law Britain the Sale of Food and Drugs Acts prescribe the materials which may be lawfully employed in its manufacture and prohibit its sale otherwise than by avoirdupois weight Formerly baked in almost every household, bread is now produced on a large scale by bakers, the processes, including paper including paper packing, being carried out by machinery BYKEHORSE

Breadalbane District of Perthshire. It includes some of the Grampians, the lochs of Tay, Rannoch, and others, and part of the course of the Tay

The title of Earl of Breadalbane was given to The title of Earl of Breadalbane was given to Sir John Campbell in 1677 In 1831 a later earl was made a marquess This title became extinct in 1862, but the carldom passed to a kinsman, Gavin Campbell, who, in 1885, was made a marquess He died in 1923 The earl's eldest son is called Lord Glenorchy

Bread Fruit Tropical fruit used as an article of food in Polynesia. It is the product of articarpus incisa, a tree allied to the fig. The fruit is of the size of a melon, and has a whitish pulp of the texture of new bread. It is roasted before being eaten

Bread Tree Small evergreen tree, a native of Guiana 1t is of the natural order cinchonaceae Its flowers. which are cream coloured and tubular, grow out from the ends of its branches. It has opposite oblong leaves and bears edible fruits

## Breakspear, Nicholas See ADRIAN

Breakwater Engineering device for creating an artificial har bour, or improving an imperfect natural harbour. It consists of a solid stone structure, harbour sometimes called a mole, driven out from the land into the sea and shaped in such a manner as to protect the harbourage from the main beat of the waves during the worst storms to which the particular coast is exposed Hence for the construction of an efficient breakwater prolonged and careful study of the tides and prevailing winds is an essential preliminary

Bream Fresh water fish It is found in slow running streams, canals and ponds There are two British species, the common bream (abramıs brama) and the white bream (abramis blicca) The former is often of considerable size, specimens of 12 lb. weight being not uncommon

Breast In man and other animals the neck and the abdomen Cuts of meat from this part of the sheep or the calf are called the breast The breast bone, called the sternum, is in the front of the chest in man and other vertebrate animals It is in three parts If sometimes, owing to discase (usually rickets), it is unduly prominent, the person is said to be pigeon breasted

In woman the mammary glands are called to breasts These, which secrete the milk, the breasts vary in size and shape, according to age and

Brandy, originally colourless, becomes brown and golden from caramel and storage in oak casks The average alcoholic proportion is 59 per cent. Old brandy, containing less alcohol, is better as medicine The best comes from Cognac, in Charente, France Liqueur brandy is first class brandy, old and well matured In Great Britain there is a duty of £3 15s 4d per proof gallon on all brandy imported.

Brandywine Tributary of the Delabrated as the scene of the victory of Sir William Howe over the American colonists under Washington on Sept 11, 1777

Brangwyn Frank English painter Born May 12, 1867, his earliest artistic experience was gained in Bruges and in his father's establishment for making church embroideries and decoration Work in England with William Morris stimu Inted his craftsmanship and a visit to the East Imbued him with the love of rich colour which distinguishes his painting He was elected A R.A. in 1904 and R.A in 1919 Examples of his work are in many of the museums of Curope, and his frescoes in the Royal Exchange London

Branksome District of Poole On the Rly, it is famous for its chine, said to be the finest on the south coast

Brantford on the Grand River, about on the CNR, and has important manufactures A canal connects it with Lake Eric, 30 m distant The city is named after Joseph Brant (1742 1807) the Mohawk chief Pop 30,107

Brantôme Pièrre de Bourdeilles French author Born about 1540, a younger son of the Baron de Bourdeilles, he was intended for the church and held several benefices, but preferred a soldier s life, and saw a good deal of active service He was in the suite of Mary Stuart when she left France for Scotland He also visited England Spain, Portugal and Morocco In 1589 he retired into private life and amused himself by composing his memoirs of Hommes Illustres and Damcs Galantes Brantôme s adventurous life and alstinguished social connections render his work one of the most important sources for the secret history of the 16th century He died July 15, 1614

Brasenose College of Oxford Unitorsity Founded in 1509 by the Bishop of Lincoln and Sir Richard Sutton, it has a direct connection with Brase nose Hall, which existed prior to 1260 The name is said to derive from an old brass knocker, in the shape of a nose

Brass Yellow alloy of copper and zinc in varying proportions with some times small quantities of lead tin or iron added for special purposes. An excess of zinc renders the alloy less ductile and tenacious, while iron increases its hardness and tenacity. Brass is very malleable, fusible, ductile and readily cast and machined

Muntz or yellow metal is a variety of brass containing 60 per cent. of copper it is stronger than ordinary brass and can be worked and rolled while hot As it resists corrosion well, it has been employed for sheathing ships, but now is used largely for propellers bows and trays The hardest of the brass alloys is

Sterro metal, an alloy containing in addition to copper and zinc, both iron and tin

Brass Memorial to the dead Early in the 13th century engraved metal began to take the place of carved stone in sepulchral memorials and continued in general use for over 300 years. They were made of sheet brass (latten) let into the church pave ment, and thus had the advantage of causing no obstruction. In addition to their high artistic merit, monumental brasses are of great value to the historian as family records and for the details of contemporary costume and armour

Brassey Thomas English contractor Born in Cheshire, Nov 7, 1805, he became a surveyor and was in business in Birkenhead Soon he undertook a contract for railway work and in a few years was at the head of a great undertaking which carried out contracts in all parts of the world He died Dec 8, 1870

Brassey's eldest son, Thomas Erassey, was born Feb 11, 1836, and educated at Oxford He is known as the founder of The Naval Annual and the owner of the yacht Sunbeam. He also wrote Worl and Wages and other books. From 1865 to 1886 he was a Liberal M P and took a special interest in naval questions. He was Governor of Victoria 1896 1900 and he died Feb 23, 1918 In 1880 Brassey was made a knight, in 1886 a baron, and in 1911 an earl In 1860 he married Anna Allantt (d 1887) author of A Voyage in the Sunbeam, and in 1890 Sybil de Vere daughter of Viscount Malden His titles passed to his only son Thomas Allantt Brassey, but became extinct when he died Nov 11 1919

Bratislava Citvand river port of Czecho in Hungary and was called Pressburg, the Magyars called it Pozsony It stands on the Danube, about 50 m from Vienna, and is the centre of a considerable trade by rail and river There are also some manufactures. The cathedral is a Gothic edifice The castle on the Schlossberg is in ruins Pressburg was the capital of Hungary from 1541 to 1784 In 1919 it was given to Czechoslovakla. Here is a Slovak university founded in 1919, and the city has an important broadcasting station. Pop (1930) 123,852

Braxy Disease of sheep The victims are usually about a year old and contract the aliment in the autumn Very few recover It is believed that the disease is caused by alteration from a poor to a very rich diet Whilst cure is almost hopeless braxy can be prevented by careful regulation of diet.

Bray Wicklow, Irish Free State It is 12 m S E of Dublin and has a few small industries, but depends mainly on its attractions as a holiday resort for the inhabitants of Dublin Pop (1926) 8639

Bray Town of Berkshire On the right bank of the Thames near Maldenhead its name is celebrated owing to the balled of The Vicar of Bray The identity of the accommodating vicar is uncertain. The dates of the song indicate Francis Carswell vicar from 1667 to 1709, but there appears to have been an earlier incumbent Simon Aleyn, vicar from 1540 to 1588, whose principles were equally clastic. Pop 3400

Brazil Republic of S America, the largest country of the continent

Covering 3,275,510 sq m it is bounded on two sides by the Atlantic Ocean and elsewhere by other republics. On the whole it is a level and fertile area, but has vast forests and tracts as yet almost unknown The Amazon is the chief river, others are the Madeira and the Parana. Rio de Janeiro is the capital and the largest place. Other cities are Sao Paulo, Sao Salvador (Bahia), Recife, Belem and Porto Alegre population is estimated at (1931), 41 477,827, mostly in the coastal provinces There are about 100,000 Indians, and colonies of Italians, Portuguese and Spaniards

The chief products are coffee and rubber-Maize, wheat and other foodstuffs are grown, as well as cotton, tobacco and other tropical products There are some manufactures The

products There are some manufactures The forests are an important source of wealth and the country is rich in minerals, especially maganese, gold and iron
HISTORY—Since 1889 Brazil has been a republic Previously it was an empire from 1822, and before that date a possession of Portugal, a Portuguese sailor having discovered it in 1500 It is a federal republic with a constitution not unlike that of the United States There is a president elected for four years and a The chamber national congress of two houses of deputies consists of 212 members elected for of deputies consists of 212 homoers elected for three years, the senate of 63 members, three for each of the 20 provinces and three for the federal district There is a federal court of justice at Rio The country has an court of justice at Rio The country has an army retruited by compulsory service and a small navy In 1926 the currency was reformed, a new unit, the cruzeiro, being introduced. The milreis, which had fallen heavily, was stabilised at nearly 6d. The metric system of weights and measures is used. Until 1926 Brazil was a member of the League of Nations

in 1930 there was serious trouble in the republic and a dictatorship was established. This lasted until 1932 when there was a return to normal forms of government An economic crisis, caused by the poor prices paid for the coffee crop, followed and in 1931 the country suspended payment of the interest on its

foreign loans

Brazil Nut Seed of Bertholletia excelsa, thidaceae. This flourishes in tropical America Each fruit yields about 20 seeds, triangular in form and with a hard woody cover. Brazil nuts are not only edible in their natural state, but field a fine cooking oil, which is also used by fainters and watchmakers

Brazil Wood Term applied to several woods of the order Leguminosae The colouring matter extracted from it is called brazilin It 3 lelds various from it is called brazilin It yields various tints of deep red It is used to some extent in called printing, but chiefly to form lakes for

linting papers

Breach of Promise Fallure to fulfill an engagement of marriage Bv the common law of England an action in contract lies for the promise of marriage For obvious reasons it is usually the woman who is plaintiff, but cases of male plaintiffs are on record It is the only action in contract where exemplary damages may be awarded, and then only when the breach of promise has been aggravated by seduction A promise to marry given by a person who, to the knowledge of the other party, is married is void as against public policy, and no action will lie if, on becoming the to marry. free to marry, the promiser refuses to fulfil it

Bread One of man's chief foods Any cereal ground to a flour, made into a paste or dough with water, and then baked, is in the broadest sense bread, but the term is particularly applied to a wheaten flour product of the kind which has been subject to fermentation by means of an enzyme, such as yeast As bread is a basic food its manufacture and sale are strictly regulated by law In Great Britain the Sale of Food and Drugs Acts prescribe the materials which may be lawfully employed in its manufacture and prohibit its sale otherwise than by avoirdupois weight Formerly baked in almost every household. bread is now produced on a large scale by bakers, the processes, including paper bakers, the processes, including packing, being carried out by machinery BAKEHOUSE

Breadalbane District of Perthshire It includes some of the Grampians, the lochs of Tay, Rannoch, and others, and part of the course of the Tay

The title of Earl of Breadalbane was given to Sir John Campbell in 1677 In 1831 a later earl was made a marquess This title became extinct in 1862, but the earldom passed to a kinsman, Gavin Campbell, who in 1885, was made a marquess He died in 1923 The earl's eldest son is called Lord Glenorchy

Bread Fruit Tropical fruit used as an article of food in Poly-It is the product of arlocarpus incisa, a tree allied to the fig The fruit is of the size of a melon, and has a whitish pulp of the texture of new bread It is roasted before being eaten

Bread Tree Small evergreen tree, a lt is of the natural order cinchonaceae Its flowers. which are cream coloured and tubular, grow out from the ends of its branches. It has opposite oblong leaves and bears edible fruits

## Breakspear, Nicholas Sce ADRIAN

Breakwater Engineering device for creating an artificial har bour, or improving an imperfect natural harbour It consists of a solid stone structure, sometimes called a mole, driven out from the land into the sea and shaped in such a manner as to protect the harbourage from the main beat of the waves during the worst storms to which the particular coast is exposed Hence for the construction of an efficient breakwater prolonged and caleful study of the tides and prevailing winds is an essential preliminary

Bream Fresh water usn it is round a glow-running streams, canals and ponds There are two British species, the common bream (abramis brama) and the white bream (abramis blicca) The former is at 12 lb. It is found in white bream (abrams blicca) The former is often of considerable size, specimens of 12 lb. weight being not uncommon

Breast In man and other animals the fore part of the body between the neck and the abdomen Cuts of meat from this part of the sheep or the calf are called the breast The breast bone, called the sternum, is in the front of the chest in man and other vertebrate animals It is in three parts If sometimes, owing to disease (usually rickets), it is unduly prominent, the person is said to be pigeon breasted

In woman the mammary glands are called the breasts These, which secrete the milk, vary in size and shape, according to age and

188

very subject to cancer

Brechin Burgh and market (Forfarshire) and market town of (Forfarshire) It is 9 m from Montrose, on the LMS Rly, and has some manufactures It has a cathedral and its bishop is the Primus of Scotland also a round tower Brechin Castle is a seat of the Earl of Dalhousle Pop (1931) 6838

Thetford, District near Breckland DICCKIANO Norfolk After the Great War the land was bought by the state and trees were planted, thus making it into a large forest which is supervised by the Forestry Commission

Brecknockshire Inland county of South Wales It covers 732 sq m, and is a mountainous area with some beautiful scenery. The highest point is Pen y hawr (nearly 3000 ft.) The chief rivers are the Wye and the Usk. Brecon is the county town, others are Builth Wells and Crickhowell The L.M.S and G.W. Rlys serve the county also the Brecon and Aber gavenny canal With Radnorshire it sends a The form Breconshire member to Parliament It is an agricultural area is sometimes used Pop (1931) 57,771

Brecon City and market town of Breck nookshire, also the county town Sometimes called Brecknock, it stands on the Usl., 35 m from Cardiff and 1621 m from London, on the G W Rly The chief building is the church of St John now the cathedral of the diocese of Swansca and Brecon There is an old bridge over the Ush, also remains of the castle Christ's College, a public school for boys, dates from 1511, and has a 13th century chapel Pop (1931) 5334

Breda Town of the Netherlands In North Brabant, it is situated at the confluence of the Merk and the Aa and is 59 m from Flushing Breda is a railway junction and has some manufacturing industries The town figured prominently in the struggle of the Dutch against the domination of Spain It was here that Charles II resided during his exile and conducted the negotiations that led up to the Restoration

The statement of the terms on which Charles accepted the crown of England in 1660 is known as the Declaration of Breda In 1667 a peace treaty between Great Britain and the Netherlands was signed at Breda (1932) 45,464

Breechloader Gun fired from the Until well into the 19th century all firearms, both cannon and small arms, were loaded with powder and ball from the muzzle a process which made rapid fire impossible As early as the 17th century various attempts were made to devise a muslet that could be loaded from the breech of the barrel but not until 1836 was a satis factory breechlorder invented by the French gunmaler Lefaucheux The problem of a breechloading piece of ordinance or big gun was more complicated, the difficulty being to devise a breech fermature, or shutter, strong enough to resist the explosion of the charge The first big gun on the breech loading principle was made in 1858

Breeding Rearing of cattle or livestock by crossing different varieties or strains so as to improve existing breeds or produce new varieties An instance of scientific breeding is seen in the crossing of various breeds of sheep to improve the quality of the

among civilised peoples the breast is wool In Australia a number of varieties of of | for different soils and climatic conditions, each variety having its own characteristic type of wool Further, by crossing the merino with various British breeds in New Zealand not only an improved fleece has been obtained, but also varieties suitable for producing mutton as Just attention is paid to the well as wool breeding of human beings is part of the science of eugenles (q v)

Bremen State of Germany It includes the city of Bremen, the port of Bremerhaven and some other districts, alto gether covering 100 sq m It belongs to the gether covering 100 sq m It belongs to the German republic, and before 1918 was a state of the German Empire Its affairs are managed by a senate of 12 members, two of whom are burgomasters They are chosen by the house of burgesses, which has 120 members elected by all citizens Pop 338.850

Bremen City and scaport of Germany It stands on the Weser, about 41 m from its mouth and 80 m from Hamburg On the right bank of the river is the old town with buildings dating from the time when the city was one of Europe's greatest markets and ports The cathedral is the chief of several old churches and the town hall has some re markable features Bremen has an extensive and varied trade and from here vessels go to all parts of the world As a port it is the largest in Germany, save only Hamburg There are three good harbours and the river has been deepened so that the largest vessels can traverse it Shipbuilding is a large industry and there are some manufactures 295,000

Bremen Name of a German liner Launched in 1928 by the North German Lloyd Co, the vessel made in July, 1929 a record passage across the Atlantic, Europe to New York, which stood as a record until beaten by the Europa in 1930 The ship displaces 49,800 tons Another Bremen was a German cruiser that was sunk in the Baltic by a British submarine in Dec, 1915

Brendon Hills Range of Ilmestone hells in Somerset They are about 6 m south of Watchet and

attain a height of about 1400 ft.

Brentford County and market town of of the urban district of Brentford and Chis wick, it stands where the Brent flows into the Thames, 7 m from London on the GW and A handsome stone bridge and a ferry connect it with Kew It is also served by the Grand Union Canal Brewing is a leading Brewing is a leading Brentford was once capital of the f the middle Saxons Pop (1931) industry kingdom of the middle Saxons 62,617

Brentford Viscount English politician William Hicks, a son of Henry Hicks was born in Kent June 23 1865 He became a solicitor and, having married the daughter of R H Joynson of Bowdon, took the name of Joynson Hicks After two un successful efforts to enter Parliament as a Conservative he defeated Mr Winston Churchill at N W Manchester in 1908 lost his seat in 1910, was returned for Brentford in 1911 and represented Twickenham from 1918 till his elevation to the peerage

Joynson Hicks was Parliamentary Secretary to the Overseas Trade Dept. in the Lloyd

George administration (1918-20), and was created a baronet in 1919 In the first Baldwin administration (1922-23) he was successively Postmaster-General, Financial Secretary to the Treasury and Minister of Health Throughout the second Baldwin ministry (1924-1929) he was Home Secretary, and on going out of office was raised to the peerage as Viscount Brentford of Newick. As a recognised lay leader of the evangelical party in the Church of England he was instrumental in procuring the rejection by Parliament of the revised Prayer Book He died June 8, 1932

Brent Goose (Bernicla brenta) Variety of barnacle goose (qv) Except that it feeds by day, it is practically indistinguishable from the ordinary barnacle

goose (B leucopsis)

Brentwood Urban district of Essex It is 11 m from Chelmsford and 18 m from London, on the LNE Rly Its grammar school was founded in 1537 The county lunatic asylum is here Pop (1931)

Breslau City and river port of Germany, and capital of Silesia It stands on the Oder, 224 m from Berlin and is a great railway centre It is also served by a network of canals, while there is much traffic along the Oder The city stands on both sides of the river, the old town being on the left bank The chief buildings are the cathedral, the town hall, both restored in the 19th century, and the modern palace, once a residence of the Kaiser Notable churches are S Mary Magdalene, the Holy Cross and the Minster city has a university and an observatory

Breslau stands in a district of coal and ironstone mines and its manufactures are chiefly machinery, railway stock and other iron and steel goods There is much trade iron and steel goods There is much trade in coal, iron, timber and other commodities, and the city is the commercial and intellectual centre of a populous area Pop 599,770

Brest Seaport of France It is on the coast of Brittany, 155 m from Rennes, and is an important naval station The harbour is formed by the river Penfeld There are shipbuilding yards, barracks, workshops, store rooms and other buildings for naval work, and a naval school of the Ministry of Marine There is a separate harbour for the mercantile shipping and fishing craft, and there are some manufactures The chief building is the old castle Pop 69,841 Brest Rozds is a bay off the port About 14 m long, a channel called the Goult connects

it with the Atlantic

Brest-Litovsk ated on the Bug at its confluence with the Muchavotz, it is an industrial centre, a railway junction and served by canals The buildings include the served by canals The buildings include the cathedral Pop 29,100

Brest-Litorsk was formerly an important

fortress of Russian Poland and a key position in the Russo-German conflict of the World War It was the objective of the third phase of Mackensen's great offensive in 1915, which, though partially successful, failed in its purpose of enveloping and destroying the Russian forces

After the second (or Bolshevik) Russian Rovolution of 1917, Brest-Litovsk was the scene of the protracted peace negotiations between the Central Powers, Soviet Russia and the Ukrainian Republic. A peace treaty with the latter was signed on Feb 9, 1918

The peace with Soviet Russia was signed on March 3, 1918, but its terms were not carried out owing to the defeat of Germany and Turkey at the end of the year

Breton Language of Lower Brittany A Celtic language, allied to Cornish and Welsh, it is one of the Indo-European group Since its grammar and idiomatic structure are regular, it is not a Breton literature is best exemplified in the old ballads of the story tellers, as, until comparatively recent times, French was the aristocratic and Breton the popular language. The recent growth of national feeling has, however, done much to arouse a literary interest in Breton

Breve Longest note in modern music It equals two semi breves, but is rarely found outside church music The name is derived from Latin, brevis, short, the breve being only a short note in ancient notation

Brevet Originally a papal indulgence It is most generally known, however, as the commission by which an officer of the British Army is granted an honorary rank higher than his substantive rank Thus a captain may be given the brevet rank of major, a major may become brevet lieutenant-colonel, and a lieutenant-colonel a brevet colonel

Breviary Book containing the daily office of the Roman Catholic church It includes lessons, psalms and hymns for every day of the year The English Book for every day of the year The English Book of Common Prayer is based on the Roman The latter, however, does not include breviary the eucharistic and other sacramental and special services

Process by which various sub-Brewing stances are fermented to produce an alcoholic liquor The term is especially applied to the production of beer from an extract of malted barley and hops. The barley is prepared by allowing soaked grains to gorminate under controlled conditions, the result being that the starch present is converted into sugar, the product is termed malt An infusion of malt, known as wort, is boiled with hops and the mixture, when cool, is fermented with yeast The resulting liquor, or beer, contains from 3 to 8 per cent of alcohol, also sugar, dextrine and nitrogenous sub-See Beer stances

Brewster Sir David Scottish scientist He was born Dec 11, 1781, at Jedburgh, where his father was rector of the high school He graduated in arts and theology at the University of Edinburgh, and was licensed for the ministry of the Church of Scotland, but at the instance of Brougham, who was his fellow student, he began the researches in the diffraction of light upon which his fame chiefly rests From 1801, when at the age of twenty he became editor of The Edinburgh Magazine, he was a prolific writer on scientific subjects. In 1807 he was writer on scientific subjects In 1807 he was appointed editor of The Edinburgh Encyclopadia Later, with Robert Jameson, he conducted The Edinburgh Philosophical Journal, he also edited The Edinburgh Journal of Science His chief literary work is his Lafe of Sir Isaac Newton (1855)

The most important of the practical applications of Brewster's discoveries was the dioptric apparatus for lighthouses, in which he anticipated Fresnel He also invented the lenticular He was a founder of the British stereoscope Association, and on the occasion of its first meeting in 1831 he was knighted. In 1838 he was appointed Principal of the University of S. Andrews and ten years later Principal of the University of Edinburgh, a position he held until his death, Feb. 10, 1868

Recurrence C.

Brewster Sessions Special states sions of the justices They are held annually in August and September for the granting of new licences for the sale of excisable liquor

Brialmont Henri Alexis Belgian military engineer Born May 25, 1821, he passed out of the Brussels Military School into the Engineers in 1843 and became a staff officer in 1855 In 1874 he reached the a stan officer in 1853. In 1874 he reached the rank of major general and was appointed inspector general of fortifications in this capa city he carried out the system of fortresses by which Belgium was defended at the outbreak of the World War In 1883 he spent some time in Rumania advising on a scheme for fortifying Bucharest He died July 21, 1903

Brian Boru King of Ireland Born about 926, the son of a king, he became King of Thomond and then in 978, of the larger area of Munster, with scats at Tara and Cashel In 1002 he was scats at Tara and Cashel In 1002 he was recognised as the overlord of Iroland, and was henceforward engaged in fighting the Danes Successful in many battles against them, he was killed in one at Ciontarf, April, 23, 1014

Briand Arishde French statesman Born at Nantes, March 28, 1862, he became a lawyer He gained a livelihood as a fournalist and was editor of the Socialist paper La Lanterne In 1902 he was elected to the La Lanterne In 1902 he was elected to the Chamber of Deputies and next year began his Champer of Deputies and next year began his long public career as Minister of Education The Socialists disowned him, but his advanced opinions remained In 1908 he became Minister of Justice and in July, 1909, Premier He was Premier again in 1913, and from 1915 to March, 1917, a most critical time

After a spell of political inactivity, Briand became Premier in 1921 and for the next ten

became Preinler in 1921 and for the next ten years he was, next to Poincaré, France's leading figure Either as Premier or Foreign leading figure leading figure Either as Premier or Foreign Secretary, he was in office during most of that time The last of several spells as Premier began in 1929 when he took that office for the twelfth time From 1926 to 1930, except for a short interval, he was Foreign Minister Hersigned the premiership on account of Health early in 1932 and died March 7, 1932 Outstanding events in Briand's earlier career was higher the separation of Church and

were his share in the separation of Church and were ms share m one separation of Church and State, and his action in lighting the great strike of 1910 After the Great War he signed the Treaty of Locarno and the Peace Pact of 1928, and took part in the European negotiations of those years In 1930 he put forward the idea of a United States of Europe

Term originally implying anything Bribe in the way of alms given to a sturdy It has been extended to mean any beggar gift made with the corrupt object of inducing the recipient to show favour to the donor

The political bribery and corruption rampant in 18th century England was stamped out by a sories of severe enactments. In the United a series of severe enactments. In the United States, on the other hand the wealth and ambition of the great business interests are still potent incentives to corruption or graft Bribery at elections in Great Britain is for

bidden under heavy penalties by the Corrupt modern bridges fron girders are generally used, Practices Act of 1883, and by an act passed the lattice girder being the usual type for

being a sandy or marly clay or "malm, a mixture of clay and chalk A heavy har blue brick is made in Staffordshire from cla containing about 10 per cent of iron, whill firebricks for furnaces are made from Stout bridge fireclay containing a high percentage of alumina and iron oxide, but no free alkalis thus giving a highly refractive character

In the manufacture of bricks the clay, ate being freed from stones, is washed in a mill then ground in a pug mill and finally formed into the required shape of bricks in a moulding machine. After being dried in the air the "green bricks" are finally burnt in a specia form of kiln or by the older method of forming the bricks themselves into a kind of kiln ir which a first alternative.

which a fire is kept burning

Bride Irish saint also called Brigid o Bridget Born about 452 at Faug hart, near Dundalk she was the daughter o an Ulster prince Her desire for seclusion lec her to make her cell under an oal at the place afterwards called Kildare and there she was buried after her death in 523 Her feast day is February 1

Bridewell Area in the City of Londor between Fleet Street and the Thames and immediately west of the Fleet ditch It derives its name from a holy well of S Bride (Bridget) Formerly the site of S Bride (Bridget) Formerly the site of a royal palace, which Edward VI presented to the city to be used as a refuge for the homeless, it became a house of correction for vagrant women and idle apprentices Bridewell consequently became a generic term for a reformatory With the exception of the hall and some offices, Bridewell house of correction was demolished in 1864

Bridge Card game It is played by four players with the full pack of cards Each player has 13 cards and the aim of each pair is to make the highest possible number of tricks Trumps are used as in whist but it is also possible to play a hand of no trumps

The dealer, having examined his hand, either declares the trump suit or no trumps himself or leaves it to his partner. The partner s hand is then laid on the table exposed, and the dealer plays both hands. There is an elaborate system of scoring both for tricks and honours. Tricks in no trumps have the highest value then follow in order hearts diamonds, clubs and spades Tricks only count towards the game honours are scored above the line From this simple form of bridge which was introduced into London in 1894 auchon and contract bridge have evolved, and these have completely supplemented ordinary bridge A national Bridge Association of Great Britain was formed in 1933 See AUCTION BRIDGE CONTRACT BRIDGE

Bridge Structure consisting of an arch, or series of arches or spans, to carry a rondway across a river or other roads A a rondway across a river or other roads. A bridge in its simpler form may consist of an arch, or several arches of stone, brickwork or ferro-concrete, the two end supports being known as abutments, while the intermediate supports are termed plers, the masonry being held together by the Leystone of the arch ln

moderate spans, but for wider spaces the cantilever is more suitable. In this latter type two or more cantilevers meet in the centre of the span. The Forth Bridge with three double cantilevers is an example of this form of bridge. In a suspension bridge the roadway is supported by vertical rods attached to cables or chains connected with towers on each bank or on piers. Another kind of bridge is the "transporter" The longest bridge in the world is the San Fr. n-cisco-Oakland Bay bridge in California. Others, however, exceed it in certain particulars. Among them are the Brooklyn Bridge, New York the Quebec Bridge across the St. Lawrence, the bridge over Sydney Harbour opened in 1932, and the bridge over the Golden Gate also in California.

Bridge Sir John Frederick English organist He was born at Oldbury, Dec. 5 1844, becoming a chorister at Rochester Cathedral when a boy Study and success in two minor posts led to his appointment as organist of Manchester Cathedral in 1869 In 1875 he became deputy, and in 1882 chief organist at Westminster Abbey He officiated at two coronations and retired in 1918 Knighted in 1897, Bridgo was professor at the London University, the Royal College of Music, and Gresham College. He wrote cantatas, oratorios and other kinds of church music as well as a book, A Westminster Pulgrim. Bridge died March 18, 1924

Bridgehead Fortifications at the head or end of a bridge. Owing to the strategic importance of these places they are usually carefully defended in time of war The Armistice of 1918 arranged that the Alhes should occupy for a time the bridgeheads of the Rhine

Bridgeman Viscount English politiBridgeman Viscount English politiWilliam Clive Bridgeman was a grandson of
the Earl of Bradford. He had a brilliant career
at Eton and Trainty College, Cambridge, was
clected to the LCC in 1904, and in 1906
became MP for the Oswestry division In
1915 he was made a Lord of the Treasury, and
he remained a member of the coalition ministry
as Secretary to the Ministry of Labour and
then to the Board of Trade From 1920-22 he
was Secretary for Mines, 1922-24 Home Secre
tary in the Unionist Cabinet, and from 1924-29
hc was First Lord of the Admiralty On his
retirement he was made a viscount. He was
made Chairman of the B B C in 1935 and died
in Aug of the same year

Bridgend Market town and urban district of Glamorganshire. It stands on the River Ogmore, 20 m from Cardiff on the GW Riv Its industries are concerned with the coal mines near Pop (1931) 10,033

Bridge of Allan Burgh and watering slure. It is 3 m. from Stirling on the L MS Rly There are some small industries, but it is chiefly known for its mineral springs, which have made it a spa and a pleasure resort. It stands on Allan Water, the banks of which are celebrated in the old song. Pop. (1931) 2897

Bridgeport City and seaport of Confrom New York, and is on one of the branches of Long Island Sound at the mouth of the River Fequennock It is both a shipping and a manufacturing centre, and has a good harbour The manufactures include sewing machines, gramophones, typewriters and motor care Pop (1930), 146,716

Bridges Robert Seymour English poet Born in Kent, Oct. 23, 1844, he was educated at Eton and Corpus Christi College, Oxford He qualified as a doctor and practised for a time, but retired in 1882 In 1890 he published a volume of poems, and in 1891 an oratorio of his was performed. Gradually he became known as a poet, and in 1913 he was appointed Poet Laureate. Later he received the Order of Merit and he died at Boar's Hill, Oxford, where he had long made his home, April 21, 1930 His anthology, The Spirit of Man, was his contribution to the war years October and other Poems, 1920, and New Verses, 1921 and 1925, reveal the purity of his thought and style, and his mestery of language His masterpiece is The Testament of Beauty, 1929

Bridgetown Capital and scaport of Barbadoes It stands on Carlisle Bay, a fine roadstead, which serves as the harbour There is railway connection with the interior of the island. The trading centre of the island, its exports include sugar and molasses Pop 13,486

Bridgewater Duke of English title borne by the family of Exerton from 1720 to 1803 In 1617 John Egerton, a son of the Lord Chancellor Thomas Egerton, Viscount Brackler was made Earl of Bridgewater The 4th earl was made a duke in 1720 His vonnger son Francis (1726-1803), who became the 3rd duke on his brother's death in 1738, was responsible for the Bridgewater Canal which he built to convey the coal found on his property near Manchester He died March 8 1803 and his property passed to the Earl of Ellesmere a nephew He built Bridgewater House London, which also became the property of the earl When the duke died, the dukedom became extinct but a nephew became Earl of Bridgewater Fruncis Henry Egerton, the 8th and last earl (1756 1829), was a writer, and he left money to the Royal Society for the Bridgewater Treatises and left the Egerton USS to the British Museum

The Bridgewater Canal runs from Worsley to Mersey at Runcorn, passing by Manchester Its length is 42 m It was bought by the Manchester Ship Canal in 1887

Bridgnorth Borough and market town of Shropshire It stands on the Severn, 20½ m from Shrewsbury and 1333 from London, on the GW Rlv It is divided by the river into an upper and lower town There are some half-timbered houses and on a hill the ruins of the eastle Pop (1931) 5151

Bridgwater
set It stands on the River Parret, 12 m from its mouth in the Bristol Channel 1421 m from London, and 33 m from Bristol It is served by the GW Rly and by a canal to Taunton. The chief industries are the shipping along the river and the making of bathbrick. There are remains of a castle Pop (1931) 17,139

Bridlington Borough watering place and market town of Yorkshire (L.R.) It is 33 m from Hull and 217 from London on the L. E. Riv The old town lies a little inland where there is the stately old Priory Church. On the coast is Bridlington Quay with a good harbour. The sands are good and there are attractions for visitors. Pop (1931) 19,704.

Bridport Borough scaport and market town of Dorset. It is on the

little River Brit, 18 m from Dorchester, and 149 from London, on the GW Rly The old town is about a mile from the sea, but it has a suburb on the coast called West Bay which attracts visitors There is a small harbour and the industries are connected mainly with the sea. Pop (1931) 5917

Bridport Viscount The son of a clergyman, Alexander Hood was born in 1727, and entered the navy in 1741 He served with distinction under Hawke at Quiberon and under Keppel at Ushant He was promoted rear admiral of the white in 1780 and vice admiral in 1787, in which year he was also knighted in 1793 he served as Howe's second in command on the "Glorious First of June," and for his services was created Baron Bridport in the peerage of Ireland In 1795 he fought the action off Bells Ile, which, though indeclsive, made him a popular hero He was given a British peerage and appointed vice admiral of England For some time he was practically supreme in the direction of the naval operations against France, and personally conducted the blockade of Brest from 1798 until 1800 On his retire ment he was created viscount. He died May 2, 1814

Brier or Briar Common name for the wild or dog ross. It is also used for other varieties including the sweet brier or any shrub with wooded stems bearing thorns or prickles. It is also the name for the white heath, a French shrub used in the manufacture of pipes. See Briar Root

Brierley Hill Market town and urban district of Stafford-shire It stands on the Stour and the G W Rly in the Black Country The industries are the making of various kinds of hardware It is 124 m from London and canals pass through the district. Pop (1931) 14,344

Brig Two masted sailing vessel, both masts being square rigged A brigan tine is a cross between a brig and a schooner, the foremast only being square rigged, and the mainmast being rigged fore and aft

Brigade Military unit It consists of four or more regiments of cavalry, with supply and other units The commander of a brigade is a major general or a colonel with the acting rank of brigadler-general An artillery brigade consists of two or three batteries under a lieutenant colonel

Brigadier-General In the British porary rank, the lowest for a general officer As the name suggests he commands a brigade of infantry or cavalry The rank was abolished in 1920, in favour of that of colonel commandant, but was revived in 1928 The equivalent rank in the navy is commodore

Brighouse Borough and market town tstand on the Calder, 6 m from Huddersfield, 188 m from London, on the L MS Rly It is a centre of the woollen industry and has other manufactures There are stone quarries in the neighbourhood Pop (1931) 19,756

Bright John English statesman and The second son of Jacob Bright a millowner of Rochdale, and a member of the Society of Friends, he was born Nov 16, 1811 In 1836 he became acquainted with Richard Cobden, who induced him to take an active part in the agitation against the Corn

Laws, and thenceforth he and Cobden were the leading spirits in the Anti-Corn Law League Their labours were crowned with success in 1845 when Sir Robert Peel decided in favour of the repeal of the Corn Laws In 1843 he was elected to Parliament as M P for Durham, and in 1847 he was returned for Manchester He opposed the Crimean War and in that connection delivered the most famous of his speeches in the House of Commons (Feb 23, 1855) At the general election of 1857 he was defeated at Manchester, but shortly afterwards was returned unopposed for Birmingham

In 1868 on the formation of the Column of

In 1868, on the formation of the Gladstone administration, Bright accepted office as President of the Board of Trade, but in the following year he resigned owing to ill health On the reconstruction of the ministry in 1873 he came back to office as Chancellor of the Duchy of Lancaster On Mr Gladstone's return to power in 1880 he again was Chancellor of the Duchy, but, disagreeing with the Egyptian policy, which culminated in the bombardment of Alexandria, he resigned and never held office again When Mr Gladstone announced his conversion to Home Rule, Bright aligned himself with the Liberal Unionists, and his defection undoubtedly contributed heavily to the defeat of the Home Rule Bill of 1886 He died at Rochdale on March 27, 1889

Brightlingsea Urban district and watering place of Essex It is on the estuary of the Colne, 8 m from Colchester, 61 m from London, on the LNE Rly Boat building is carried on and there are oyster beds, but it is chiefly known for its yachting interests Pop (1931) 4145

Brighton County borough and watering place of Sussex It is 51 m from London and is reached by the S Rly, there are also regular road services It extends from Hove, a separate borough, past Kemp Town, included in Brighton, to Rottingdean, and has a fine parade along its extensive front There are two plers, theatres and other places of amusement, several public parks, Preston and Hollingbury among them, and the council has bought Devil's Dyke and other land on the Downs Brighton has railway shops and other industries, including some fishing Thore is a racecourse at Kemp Town and several golf links Pop (1931) 147,427

Another Brighton, also a watering place, is in New South Wales It is 8 m from Sydney

Bright's Disease Term applied to matory conditions of the kidneys (nophritis acute and chronic) which were first described by Dr Richard Bright (1789 1858) It is character ised by the presence of albumen in the urine, and the symptoms are pain in the back, sickness, a certain degree of fever, and dropsy The acute condition is more amenable to treatment than the chronic

Br11 Village of Buckinghamshire It is 50 m from London, on the LNE Rly It is famous for its windmill, one of the fow existing examples of a mill revolving on a central post. Pop 1019

Brill Flat fish of the genus rhombus It smaller and smooth skinned It is a popular table fish, but much inferior to the turbot in flavour It is found around the coasts of Great Britain

Brindisi City and seaport of Italy Standing at the Mediterranean

end of the Adriatic Sea, its position makes it important. As Brundisium it was a Roman port and it had a considerable trade in the Middle Ages After a period of decline, it recovered its prosperity owing to the opening of the Suez Canal, as goods and passengers for the East were put on ship here There is a large and safe harbour and railway connection with the great European lines. Pag. 48,400 with the great European lines Pop 48,400

Brindley James English engineer Born in 1716 at Thornsett, Derbyshire, of humble parentage, he was apprenticed to a millwright On setting up in business for himself at Leek, he soon became known for his skill in repairing machinery In 1759 he was employed by the Duke of Bridgewater to direct the construction of the Bridgewater Canal between Worsley and Manchester For the rest of his life Brindley was engaged mainly on inland navigation works, and in all laid out over 360 m of canal He died Sept 30, 1772

Brion1 Small group of islands in the north west of Pola The largest of them, Brioni Maggiore, is a favourite holiday resort

Brisbane City and river port of Australia, also the capital of Queensland It stands on both sides of the Brisbane river, 45 m from the sea, and covers 385 sq miles A commercial and banking centre, Brisbane has a large export and import trade, for which there are docks and wharves along the iver, and there are also some manu factures

The city is laid on modern lines with wide streets and handsome squares The buildings include two cathodrals, Anglican and Roman Catholic, parliament house, law courts, custom house, and the University of Queens-

custom house, and the University of Queensland The city was named after Sir Thomas Brisbane who founded it Pop 313,251

Bristol City and seaport of Gloucestership of the Avon, 9 m from the Bristol Channel and 118 m from London, and can be reached by both L MS and G W Rlys The city proper is in Gloucester shire, but some of its suburbs are in Somerset There is a harbour on the Avon, with quays and warehouses, but for larger vessels the docks are at Avonmouth, the city's port, and Portishead The industries, apart from shipping, include the manufacture of tobacco, chocolate, etc The buildings of the city include the cathedral and the beautiful church of S Mary Redeliffe A site on College Green has been selected for new municipal buildings Clifton and Durd ham Downs and Leigh Woods are some of the city's open spaces

Bristol has a university opened in 1909 Connected with it is the old Merchant Ven-turers' College Clifton College is a notable turers' College Clifton College is a notification of the municipal aerodrome is at public school The municipal aerodrome is at 1985 18

was made an earl, until 1698 when the 3rd carl died

The title of Marquess of Bristol has been borne by the family of Hervey since 1826 In 1714 John Hervey was made an earl, and in 1826 the 5th earl was made a marquess The

ittle is still held by the family and their seat is Ichworth Park, Bury St Edmunds
The Bristol is the nameship of a class of British cruisers Launched in 1910, she displaced 4800 tons and took part in some fighting during the Great War The name has been in the navy since 1666

Bristol Channel Arm of the sea Wales from Somerset and Devon, and forming an extension of the estuary of the Severn It is about 80 m in length and receives in addition to the Severn the waters of the Towy, Taff, Usk, Wye, Avon, Parret, Tone, Taw and Torridge Lundy Islands stands at the entrance to the Channel off Hartland Point The Channel, being funnel-shaped, is remarkable for its high and rapid tides, which at the Severn estuary form the famous Severn bore

Britain Name given to England and to the coming of the Angles and Saxons in the 5th century It comes probably from the Brythons, a Coltic people, and in the form Britannia was given to the land by the Romans. The Britons fought against the invading Romans, but were subdued by them and lived under Roman rule for nearly 400 years, or until about 400 Caesar gives an account of Britain and the Britons They had their own manners and customs and they knew a little about building and the use of metals. They grew corn and kept animals. They had kings and warriors with chariots, priests called Druids and a religion in which human sacrifices were made

Britannia Roman name for Britain It is used to-day for the to make figure representing Britain that appears on some of the British coins, and is used in other ways as an emblem, for instance on medals The figure of Britannia on the copper coins was introduced in the time of Charles II, the Duchess of Richmond serving as the artist's model. artist's model

Britannia Formerly a training ship for officers of the British Navy The early naval cadets were trained on warships, one of which was the Britannia, which was put to this service in 1859 It was replaced by another vessel, also named Britannia which was stationed at Portsmouth and then at Dartmouth In 1903 the cadets were transferred to a college at Dartmouth

Britannia Metal Name given to an alloy To produce this metal tin, zinc, antimony, bismuth and copper are used in varying proportions. It is an exceedingly ductile material, and lends itself admirably to the manufacture of articles that have highly ornamented surfaces. It was first made in Sheffield about 1770

British Association Society for the advancement of science It was founded in 1831 and holds a meeting every year at which an address is given by the president, an eminent scientist, and sectional meetings are held for the dis-cussion of matters of interest. The meetings are usually held in an English town or city, but at least three times the Association has gone over sees to Australia gone over seas to Australia, Canada and S Africa The 1931 meeting, the centenary one, was held in London The headquarters are at Burlington House, London, W 1

## British Broadcasting Cor-

poration See BROADCASTING

British Columbia One of the nine provinces of the dominion of Canada In the west of the country it has a long coastline on the Pacific It covers 372,630 sq m, and includes Vancouver and other islands Victoria is the capital, but

194

Vancouver City is the largest place The province produces fish and fruit, silver, copper, lead, coal and other minerals, lumber and furs British Columbia is governed by a ministry responsible to a legislative assembly of 48 mem bers, elected by all adults for five years

It sends six senators and 14 representatives to the Parliament of the Dominion It joined the Dominion in 1871, on the condition that a railway should be built across the continent Pop (1931) 694,263

British East Africa Term denote all territories under British rule in East Central Africa. It covers Uganda, Kenya, Tanganyika Zanzibar Nyasaland and North ern Rhodesia See East Africa

British Empire Lands under the eign of the United Kingdom and sometimes called the British Commonwealth of Nations The area of the Empire is 14,000 000 sq m and its pop is about 450,000,000 This is divided between the continents thus ATPR

Population. 48 000 000 833 000 000 50 000 000 (eq m.) 121 500 1 824 500 4 652 000 Europe Africa

Africa 4522 000 DV CVV 0000 America in and Oceania 3 500 600 8 000 600 The states of the Empire may be divided into six groups (1) Great Britain and Northern Ireland, (2) The six Dominions, Canada, Australia, Newtoundland, South Africa, New 1746 Zealand and the Irish Free State, (3) India, (5) Protectorates, (6) Man

(4) Colonies, dated territories

The Dominions are autonomous communi ties within the Empire, equal in status with Great Britain and with one another India as an Empire occupies an exceptional position, which is being gradually altered in the direction of dominion status Colonies include Southern Rhodesia and other parts of the Empire which are self governing, as well as islands and districts such as Ceylon and Sierra Leone over which the British Government has legislative powers, more in some and less in others Protectorates are chiefly states such others Protectorates are energy actes and as Uganda and Somaliland in which native rulers are left to manage their own internal affairs Mandated territories are areas governed under mandate from the League of Nations Such include Palestine, Tanganyika and Samoa

To deal with the relations between Great Britain and the rest of the Empire, there are departments of state in London The Dominions Office is responsible for the affairs of the Dominions and the Colonial Office for those of the colonies protectorates and mandated territories. For India there is a separate office. The king is represented in each Dominion and colony by a governor general or governor The Dominions and India have each a high commissioner in London and for the colonies

there are agents general, or the crown agents
Theoretically the Parliament at Westminster can legislate for the whole Empire but in practice it has nothing to do with the internal affairs of the Dominions and their independent position was fully recognised by the Statute of Westminster passed in 1932 Their legislation, Westminster passed in 1932 Their legislation, however, requires the sanction of the king, but this is never refused To discuss the affairs of the Empire an Imperial Conference meets in London every five years and ministers from the Dominions sometimes attend the meetings of the Committee of Imperial Defence

The Judicial Committee of the Privy Council. on which are representatives from the Dominions, is the supreme court of appeal from the courts of the various parts of the Empire In 1932 representatives from the whole Empire met at Ottawa for an economic conference

British Empire Order of the founded in 1917 It is given for services rendered to the Empire and to men and women alike There are two divisions, military and civil and five classes in each These are knight grand cross (GBE), knight commander (KBE), commander (CBE) officer (OBE) and member (MBE) Women use the same letters except DBE instead of KBE Those in the first two classes are entitled to call themselves dame

The motto

British Isles Name sometimes given to Great Britain Ireland, and the adjacent islands. Its divisions are, England, Wales, Scotland, Northern Ireland, Irish Free State Isle of Man and the Channel Islands. They cover 120 489 sq. m., and have a pop estimated at 48 000,000

British Legion Association of men who served in the Great War objects are to help service men and their dependents The legion has a factory at dependents The legion has a factory at Petersham where the popples sold on Armistice Day are made In 1930 there was an enquiry into the working and finances of the legion The offices are at 29 Eccleston Square London, SW 1 Earl Haig, the first president was succeeded by Earl Jellicoe

British Museum National museum of Great British It owes its origin to Sir Hans Sloane who died in 1753 and by his will gave an option to Parliament to purchase for £20 000 his library, MSS, and collection of natural history specification of the collection of mens and other curlosities The Act of Parliament by which the offer was accepted provided also for the purchase of the MSS collected by Robert and Edward Harley, Earls of Oxford, and for the proper custody of the Cotton MSS, already the property of the nation. To these three collections George II Cotton MSS, already the property of the nation. To these three collections George II added the royal library begun by Henry VII, and continued by successive sovereigns down

and continued by successive sovereigns down to the reign of Charles II

To house the collections, Montague House, Bloomsbury, was purchased and was opened in 1759 as the British Museum, and in 1881 the natural history collections were removed to a building in South Kensington

The development of the library and public reading from of the Museum was the work

The development of the horary and public reading room of the Museum was the work of Anthony Panizzi, an Italian refugee, who was appointed keeper of printed books in 1837. The famous rotunda which now forms the reading room was built according to his plan and opened in 1857. Under the Copyright Act a copy of every book printed in the United Kingdom must be delivered to the British Museum Library within a month of publication The library is the largest in the world, and is estimated to contain nearly 3,000,000 volumes It has a building at Colindale near Hendon where newspapers are stored

Briton Ferry Scaport of Glimorgan mouth of the River Neath, on the G.W. Rly, 2 m from the town of Neath of which it is a

port There are large docks and other industries . include coal mines and iron works

Brittany (Fr Bretagne) Former prothe modern departments of Côtes-du-Nord, Ille et-Vilaine, Loire-Inférieure, Morbihan and Finistère. It was anciently known as Armorica, but during the 5th and 6th centuries, owing to the pressure of the Angle-Saxon invasion of England, it was colonised by British immigrants and came to be known as Britannia Minor

To this day Brittany maintains a character as distinct from the rest of France as Wales is from England The Bretons speak a variant of the ancient British tongue closely allied to Welsh, and in their physical and moral characteristics closely resemble the South Welsh, the Cornish, and the Highlanders of Scotland They are devoted to the Roman Catholic faith and have distinctive popular religious festivals known as pardons They excel as fishermen and sailors and provide the bulk of the seamen of the French Navy The soil of Brittany, except in Ille-et-Vilaine, is poor The chief towns are Rennes, Nantes and the naval ports Lorient and Brest Quimper is famous for its carthenware, and St Malo, Dinard and other places are favourite holiday resorts.

Brixham Watering place and urban district of Devon It stands on Torbay, on the GW Rly, 32 m from Exeter There is a good harbour for the fishing and coasting trade Here William III landed in 1688 Pop (1931) 8147

Brixton District of London In the borough of Lambeth, it is 4 m to the south-west of the city Brixton prison is here Other buildings are the Lambeth town hall and the Tate library

Brno City of Crechoslovakia, also called Brunn It is 80 m from Vicuna at the junction of two rivers, and is well served by railways On the Spielberg, a hill over-looking the city, is the citadel, long used as a prison There is a university founded in 1918 A thriving industrial city, Brno is the second largest place in Czechoslovakia. Before 1919 it was in Austria, being the capital of the province of Moravia Pop (1930) 263,646

Broadcasting Word meaning to send out news to all men everywhere, but to day used especially for the sending out by wireless of information, entertainment, etc, to persons who possess receiving sets. This began in Great Britain in 1921, and the fact transmission was made from a sots This began in Great Britain in 1921, and the first transmission was made from a station at Chelmsford In 1921 the Britain Broadcasting Company was formed and in 1926 this became a Corporation under the control of the Government It has a monopoly of broadcasting in Great Britain and obtains an income from a certain proportion of the fees paid for receiving licences The headquarters are in Portland Place, London, W C, a building erected in 1930-31 and equipped specially for the purpose Before 1932 the headquarters were on Savoy Hill

The national programmes are sent out from The national programmes are sent out from London and Droitwich For regional programmes there are stations at Brookman's Park for the London area, Droitwich for the midland, Moorside Edge, near Huddersfield, for the northern, Westerplen, near Falkirk, for the Scottish, Washford Cross for the western and Lisburge for Northern Ireland. Of these

the London, Northern, Scottish and West Regional are dual transmitting stations There is also an Empire transmitting station at Daventry which operates on a short wave Then for more limited areas there are stations at Bournemouth, Newcastle, Plymouth and Aberdeen, and there are relay stations at Liverpool, Bradford, Sheffield, Hull and Stoke-on-Trent Most large foreign cities have broadcasting stations

Broadcasting has extended to every civilised country, but the arrangements for controlling it yary to a considerable extent between one and another There is an international board at Geneva to discuss matters of common interest In 1932 arrangements were made for broadcasting programmes between the United States and Great Britain On June 30, 1935, there were in Great Britain and Northern Ireland 7.077.095 licences in force

Broadmoor Asylum for criminal lun-atics It is in Berkshire, on the S Riv, and was opened in 1863

Broads The District of East Anglia, mainly in Norfolk but partly in Suffolk It is so called from its numerous broads, or large shallow lakes The district is intersected by the lower reaches of the Rivers Yare, Bure, Ant and Waveney which are connected with the broads by watercourses called dykes

The Broads are perhaps the most popular sporting holiday resort of England Fish and wild fewl are abundant and the lakes are navigable by small sailing craft The chief broads are, Oulton, Ormesby, Hickling, Wrox-ham, Rollesby, Horning and Salhouse

Single sheet of paper printed on one side only Broadsheet and also called a broadside The earliest use of broadsheets was for the publication of pro-clamations and other official notices, but from the 16th century onwards they appear as a method of circulating popular literature—ballads, dying speeches of criminals, political squibs, etc. Several important poems by Dryden and Butler were first published in broadsheet form

Broadside Simultaneous discharge of all the guns on one side of a war vessel In modern battleships the guns can be swung to fire on either side, thus adding to the power of a broadside The term, however, is not now much used, having been replaced by salvo, though technically there is a slight difference between a broadside and a 8alvo

Broadstairs Watering place of Kent It is on the Isle of Thanet, 2 m from Ramsgate and 73 from London, on the S Rly There is a fine parade and the attractions include golf links and sea fishing Broadstairs owes some of its popularity to Charles Dickens, who lived here from 1837 to 1851 With S Peters it forms an urban district Pop (1931) 12,748

Broadway Village of Worcestershire from Evesham and 107 from London, on the GW. Rly Beautifully situated, it is a good centre for visitors to the Cotswolds Pop 1800

Brobdingnag Imaginary land de-gravels In his first voyage Gulliver visits the Scottish, Washford Cross for the western and Lisburne for Northern Ireland Of these where he is a giant among pigmies and Lisburne for Northern Ireland Of these where he is a pigmy among giants

Broccol1 Vegetable of the natural order cruciferae It grows easily in Great Britain, and can be obtained nearly all the year round The seeds can be sown in March and kept under glass until June when they should be planted out The broccoll the provide of the provide or the pro the cauliflower and is a useful resembles green vegetable for the table

Brochure (Fr brocher, to strike) Small printed on a few leaves stitched together, or enclosed in a paper cover, it is practically

or enclosed in a paper cover, it is practically the same as a pamphlet

Brock Sir Thomas English sculptor A

11847, and settled in London in 1866 His work soon won for him a great reputation, and two magnificent pieces of statuary, Erand The Moment of Peril, which he wrought, are in the Tate Gallery, London He designed the memorial to Queen Victoria, near Bucking ham Palace, and was responsible for the ham Palace, and was responsible for the designs on the colonge first issued in 1893 In 1891 he was elected R.A., and he was knighted in 1911 He died on Aug 22, 1922

Brocken Highest mountain of the figures prominently in German folklore as the scene of the witches sabbath supposed to be held annually on Walpurgts Night (May by the legical to probably due to the foot The legend is probably due to the fact that pagan rites lingered longer in the Harz than in any other part of Germany The most famous literary reference is the Brocken scone in Goethe's Faust On the night of June 17, 1932, certain of the rites of black magic were accurately reproduced on the Brocken, under the direction of the (British) National Psychi cal Research Council, without, however, producing the supposed results The Spectre of the Brocken, so called from the phenomenon having been first observed on the Brocken, is the gigantic shadow of an observer cast upon a bank of cloud in mountain regions when the sun is low The mountain is 3733 ft high

Brocklesby Village of Lincolnsmire It is 9 m from Grimsby, on the LNE Rly Brocklesby Hall, the scat of the Earl of Yarborough, is a fine house standing in a large park The village gives its name to the Brocklesby Hunt.

Brockville Town of Ontario It stands from Montreal, on the CP and CN Rlys It is also a river port and has some manu factures Brockville was named after Sir Isaac Brock, who was killed fighting against the Americans Oct 13, 1812 Pop 10,000

Brodick Village of Arran It stands on Brodick Bay and is a calling place for steamers and a centre for visitors to the island Here is Brodick Castle, for many years a seat of the Duke of Hamilton It is now a residence of the Duchess of Montrose, a daughter of the 12th Duke of Hamilton

(Gaelic brog) Rough shoe of Brogue undressed cowhide or deerskin formerly worn by the Gaels of the Scottish Highlands and Ireland It is now applied to a make of stout shoe worn with Highland sporting dress As the brogue was regarded as the distinctive mark of the Gael, the term came to be applied to the dialectic and accentual peculiarities of English speaking Gaels, more particularly the Irish

Broken Hill Town of New South Wales Australia. It is

on the railway, 925 m from Sydney, and is famous for its silver mines From these an famous for its silver mines. From these an enormous quantity of silver has been won, but they are less productive than formerly Copper, tin and other minerals are found Copper, tin and other minerals are found Broken Hill is also the centre of an agricultural area Pop (1931) 22 950 Another Broken Hill is in Northern Rhodesia.

It is 655 m from Bulawayo on the main railway line A mining centre, there are immense reserves of lead and zinc ores in the neighbourhood and these are mined on a large

scale

Broker Middleman or agent, one who buyer and seller There are many kinds of brokers, stock brokers, bill brokers, metal brokers and others Their relations with their clients are governed by the law of agency Their fees, called brokerage, are generally on a percentage basis Those of stock brokers are according to the scale fixed by the London Stock Exchange Men who deal in second hand turniture are called brokers. Payapproless (a.g.) furniture are called brokers Pawnbrokers (q v) trade under special conditions

Bromborough District of Cheshire on the Mersey, 5 m from Birkenhead, and is served by the GW and LMS Rivs There are extensive docks and some other industries With Bebington it forms an urban district. Pop of urban district (1931) 26,742

Brome Richard English dramatist. He learned his art from Ben Jonson, whose servant he was His first successful play was The Northern Lass (1632) He wrote in all 15 plays by himself and collaborated with Thomas Heywood in The Late Lancashire Witches (1634) He died in 1652

Bromide Term given to said of hydrother bromid acid, the commonest examples being the bromides of potassium and Term given to salts of hydro silver Potassium bromide, a white crystalline compound, is used largely in medicine as a nervous sedative in epilepsy and other diseases Silver bromide, being sensitive to the action of light, is used in photographic printing in the form of a gelatine emulsion, which is applied to paper to form bromide paper Prints made with this emulsion are in tones of sepia to black

Non metallic element. Its atomic weight is 79 96, and Non metallic Bromine volatile liquid of a deep reddish brown colour and has a suffocating irritant odour It occurs in mother liquors from sea water, but the chief source of bromine and its compounds is the mineral carnallite from Stassiurt in Deputies recombined to the state of the sta Saxony Bromine resembles chlorine in many of its characters and its compounds are used in medicine, photography and in the manu facture of aniline dyes Ethylene bromide facture of aniline dyes Ethylene bromide enters into the preparation of lead tetraethyl for incorporation in petrol

Bromley Borough and market town of Kent It is 11 m from London on the S Rly The little River Ravens bourne flows through it. The palace occupies the site of the old palace of the Bishops of Rochester Pop (1931) 45,348

Brompton District of London To the south west it is mainly in the borough of Chelsea. The buildings in the Brompton Orntory an edition

of New South
Australia. It is Inches borough of Chessea The buildings o

Bromsgrove Urban district and mar-shire. It is 12 m from Worcester, on the LMS Riv Bromsgrove School, founded in 1553 is a public school, with accommodation for 330 boys In the Birmingham area, Bromsgrove has manufactures of nails and other forms of hardware Pop (1931) 9520

Bronchitis Catarrhal inflammation of the bronchial tubes, producing a feeling of tightness of the chest and a dry hard cough is usually caused by cold and damp or by irritating vapours, or is a complication of some other disease

Treatment—The patient should be kept in bed in a room of uniform temperature and put on a diet of milk foods until his temperature is normal Linseed or mustard poultices, inhalations of Friar's balsam (2 teaspoonfuls to 1 pint of boiling water) and cough medicines to promote expectoration will give considerable relief

The patient should allow himself a thorough convalescence or Chronic Bronchits may develop The condition is specially serious

in infancy and old age

District of London Brondesbury District of London It is 8 m from the city, on the Metropolitan and LMS Rlvs It forms part of the urban district of Willesden

Bronte Charlotte English novelist A daughter of Rev Patrick Bronte, she was born at Thornton, Bradford, April 21, 1816 She was educated at Cowan Bridge, 21, 1810 She was educated at Cowan Bridge, Kirkby Lonsdale, at home and at Roe Head Mirfield, a school kept by Miss Wooler, where later she was a teacher She was a governess in private houses and in 1842-44 spent some time in a pension in Brussels In 1844 she returned home to Haworth where her father was perpetual curate, and there she lived forten further years In Jan, 1854, she married Rev A B Nicholls, and, on March 31, 1855, she died at Haworth

Charlotte Brontë is known as the writer of three vivid and powerful novels, Jane Eyre and Villette, both largely autobiographical, and Shirley She also wrote The Professor, her earliest book, but only published after

her death

The Brontes were a gifted family The lather was an Irishman who worked his way to Cambridge and lived at Haworth until his death in 1861 His only son, Patrick Branwell, death, Sept 24, 1848 Of the five daughters two died young Emily, born July 30, 1818, wrote an immortal novel, Wuthering Heights, and some pooms. App. less gifted wrote and some poems Anne, less gifted, wrote Agnes Grey and The Tenant of Widfell Hall Both died of consumption, Emily on Dec 19, 1848, and Anne on May 28, 1849 The three sisters' first efforts were Poems by Currer, Ellis and Acton Bell, these being the pseudonyms respectively of Charlotte, Emily and Anne and Anne

There is an immense literature on the Brontes, and in 1884 a Bronte Society was founded. In 1928 the parentee Society was In 1928 the parsonage at Haworth

was opened as a Bronte Museum

Brontosaurus Extinct reptile Bevorous lizard-footed type of dinosaurs, it is known from its foesil remains in the Upper Jurassic beds of Wvoming, USA It was about 60 ft. long and 10 ft in height, and was characterised by having a small head at the end of a long tapering neck and a short body

ending in a very long tail It is probable that the brontosaurus lived on the seashore, feeding upon sea weeds

Bronx Part of the city of New York It is to the north of Manhattan from which it is separated by the Bronx River Since 1897 it has been one of the boroughs which comprise New York City, and has grown enormously Hero are the buildings of the University of New York Pop 800,000 enormously

General name for copper-tin allovs, which include gun metal, d speculum metal The colour Bronze bell metal and speculum metal and properties vary according to the pro-portions of the constituents, but ordinary portions of the constituents, but ordinary bronze is harder and stronger than brass and is easily worked when quickly cooled after heating to redness Phosphor bronze containing a small percentage of phosphorus is very hard and tenacious, and is used therefore for machine bearings, etc Silicon bronze is a good conductor of electricity Manganese Manganese bronze resists corrosion well and is suitable for propeller blades, aluminium bronze, a gold coloured alloy, is used for making cheap iewellery

Bronze Age Name given to the period when pristine man used when pristine man used bronze for his tools and weapons, this superseding the use of stone. Its date differs in various areas. In the East it began probably about 5000 BC, and in the West perhaps 2000 BC, and continued until about 1000 BC. It is sometimes divided into three periods, early, middle and late, and it was superseded by the iron age.

by the iron age

197

Bronze Powder Powder composed of finely ground aluminium bronze, an alloy containing copper and tin with 2 to 12 per cent of aluminium It is employed as a basis for gold and bronzo paints In the trade, however, the term bronze powder also includes aluminium powder used for making aluminium paint

Bronzing Process by which brass or other metals, also plaster casts and ceramic ware, are given a bronze colour to impart an artistic or antique appear-For metals this is done by applying various chemical solutions such as platinum chloride to give a black colour, or a mixture of acetic acid, sal ammonlac, salt, cream of tartar and copper acetate, to produce a green or antique bronze

Rupert Chawner. English poet. Born April 3, 1888, he was the son of a master at Rugby where he was educated before going to King's College, Cambridge. In 1911 he published a volume of poems and after his death other volumes, prose and verse appeared In 1914 Brooke joined the R N D In 1915 when with the expeditionary force in the Mediterranean, he died at Seyros, April 23 1915 Brooke's personality made a great impression on all who met him, and his poetry contains passages of great beauty. A memorial to him has been erected at Scyros

Brooke Sir James Rajah of Sarawak. Born at Benarcs, April 29, 1803, he was educated in England and entered the army of the E India Co In 1826 he was wounded and sent home, but he was soon in the East again In 1839 he went to Borneo and offered to help the Sultan of Sarawak in his wars, the result being that he was made raish and governor of Sarawak by that neters. rajah and governor of Sarawak by that potentate He put down head hunting and piracy, and was equally successful in Labuan where

Nov 3, 1794 He studied law and was admitted to the Bar, but after a few years of practice without much success he abandoned law for liferary work. In 1829 he became editor and principal proprietor of The New York Evening Post a position in which he continued until his death Thandtopses, his first published poem, and perhaps his greatest, was written in his cighteenth year His first volume of poems was issued in 1821 Other volumes followed from time to time and in 1876 a collected edition of his Poetical Works was published He also made translations of the Iliad and the Odyssey He died June 12, 1878

Bryce Viscount British statesman and Born in Belfast, May 10, 1838, James Bryce was educated at Oxford where he had an exceptionally brilliant career He was made Fellow of Oriel College and was regius professor of civil law, 1870 93 In 1880 he entered Parliament as Liberal M P for the Tower Hamlets, and from 1885 to 1907 he represented 8 Aberdeen In 1886 he was Under Secretary for Foreign Affairs, from 1892 95 Chancellor of the Duchy, and then President of the Board of Trade, and from 1905-1907 Secretary for Ireland From 1907 to 1914 he was British ambassador at Washington In 1914 he was made a viscount, and he died Jan 22, 1922 Of Bryce's meny writings two are standard works The Holy Roman Empire and The American Commonwealth In 1907 he received the coveted Order of Merit

Brynmawr Urban district and market town of Brecknockshire It is 8 m from Abergavenny, on the GW Riv The chief industry is the ironworks, but owing to depression it was proposed, in 1930 to make the place into a pleasure resort, and improve-ments were carried out, largely by voluntary labour Pop (1931) 7247

At Bryn Mawr, Pennsylvania, there is a large college for women

Bryony Name of two British plants, quite unrelated to one another The white bryony (bryonia dirica), belonging to the cucumber family, is common in hedge rows, its bristly trailing stems bearing compound leaves clinging to the bushes by spiral tendrils The black bryony (tamus communis), a member of the yam family, has a twining stem and heart shaped leaves

Brython Variant of Briton Modern anthropologists have adopted the terms Brythonic and Goldelic in preference the terms brythonic and Goldene in preference to British and Gaelic, to distinguish respectively the southern and northern branches of the Ceitic race in the British Isles The term Brython includes the Welsh the Cornish and also the Bretons of France The Goldels include the Scottish and Irish Gaels and the Manx

Bubonic Plague Virulent infectious origin It affects the lymphatic glands and causes swellings or buboes, accompanied by feverish conditions and disturbance of all the reversa conquions and disturbance of all the functions. The Black Death in the 14th century was a form of this disease and various outbreaks of bubonic plague have occurred from time to time in many parts of the world. In recent years India has suffered from this disease, and antitoxin treatment has been found to be successful.

Buccaneer Maritime adventurer The chieffy British, French and Dutch seamen who, tacitly encouraged by their respective govern

ments, hara-sed and plundered the Spaniards in the 16th and 17th centuries

Buccleuch Village of Selkirlshire. Montagu-Douglas Scott take the title of earl and duke A member of the Scott family was made Earl of Buccleuch in 1619 His grand daughter married the Duke of Monmouth in 1603 and he was made Duke of Buccleuch

1003 and he was made Duke of Bucoleuch
Henry the 3rd duke, inherited the titles and
estates of the Duke of Queensberry in 1810
and his wife, a daughter of the Duke of
Montagu, inherited the property of that
family His chief seats are Drumlanrig Castle
in Dumfrlesshire and Dalkeith Palace near
Edinburgh and he has large estates in the
south of Scotland
His eldest son is called the

Earl of Dalkeith
The 7th duke died Oct., 1935, shortly before
the marriage of his daughter, Lady Alice Scott,

to the Duke of Gloucester

Bucephalus Favourite warhorse of Alexander the Great. As a boy he broke in the horse in order to fulfil an oracle It died 326 B c by the River Hydespes (now Jhelum) in the Punjab There Alexander built a city called Bucephala as a memorial to it

Buchan District of Aberdeenshire It Buchan lies between the Rivers Devem and Ythan, being in the N E part of the county Buchan Ness on the coast is the most casterly point of Scotland On it is a light house

The title of Earl of Buchan is one of the oldest in Scotland. In the Middle Ages it was held by the families of Comyn and Stewart In 1617 it was given to an Erskine and it has since remained in that family

Buchan Alexander Scottish meteoro logist Born April 11, 1829, of bumble parents, he was educated at Edinburgh He studied science and in 1860 was appointed Secretary of the Scottish Meteorological He devoted his time to observing Society weather conditions from the Society's observa tory on Ben Nevis and made certain forecasts about the weather, known as Buchan's periods, three warm and six cold in the year These attracted renewed attention about 1925 and wore found remarkably correct in succeeding years Buchan died May 13, 1907

John Scottish novelist novelist Born 26, 1875, the son of a minister, he had a brilliant career at Glasgow and Oxford Universities He became a barrister and was for a time in South Africa under Lord Milner He then joined the publishing firm of Thos Nelson & Sons and wrote Buchan lishing firm of Thos Nelson & Sons and wrote a number of stories, and one or two other works Perhaps the best of his many romances are Prester John, The Thirty Nine Steps, Green manile, Huntingtower, The Dancing Floor and Witch Wood He wrote a History of the War and Lives of Montrose and Raleigh In 1932 he published the centenary Life of Sir Walter Scott, and in 1933 Glencoe and A Prince of the Captivity The Kind's Grace appeared in 1935 During the Great War he went to the front for The Times and served in the Ministry of Information In 1927 Buohan was elected Unionist MP for the Scottish Universities In 1931 he MP for the Scottish Universities In 1931 he was made a Companion of Honour, and in 1935 he was appointed Governor General of Canada and was raised to the peerage as Lord Tweeds

muir
"O Douglas," Buchan's sister Anna, is the anthoress of The Selons, Penny Plain, etc

Buchanan George Scottish humanist at Killearn, Dumbartonshire, in 1506, and graduated at the Universities of St. Andrews Having published some caustic satures on the Scottish clergy, he was imprisoned in the castle of St. Andrews, but escaped and fled to France From 1539 to 1542 he was Professor of Latin at Bordeaux, where he had Montaigne as one of his pupils, and from 1542 to 1547 professor at Paris He was Moderator of the General Assembly in 1567 Buchanan was a prolific and versatile writer both in the vernacular and in Latin, and a vigorous pamphicteer His Latin poems and plays have merit, but he is chiefly remembered by his De Jure Regni apud Scotos (1579) and his Rerum Scoticarum Hieforia (1582), a history of Scotland He died in Edinburgh, Sept 28, 1582

Buchanan James, American president.
Born in Pennsylvania, April 23, 1781, he became a lawyer In 1856 he was the Democratic candidate for the Presidency and was elected. Soon after the end of his term in 1861 the Civil War began Buchanan died June 8, 1868

Buchanan Robert Williams Scottish writer Born in Stafford-shire, Aug 18, 1841, he was educated in Glasgow He wrote several volumes of poems and then a series of novels which were popular, especially The Shadow of the Sword, A Child of Nature and God and the Man He also wrote some plays Buchanan was known because of his attacks on what he called the fleshly school of poetry He died June 10, wrote some plays 1901

Bucharest City and capital of Rumania, stands on the Dimbovitza, a tributary of the Danube, and is in the main a modern city With some fine squares and parks, it is called With some line Equares and parks, it is called the Paris of the Fast Bucharest is an important railway centre and through it much of the country's trade passes. It was occupied by the Germans from Dec., 1916, to Nov., 1918. In 1861 it became the capital of Rumania, previously it had been the chief town of Wallachia Pop. (1920) 631 288. Pop (1930) 631,288

Pop (1930) 631,288

Two important treaties have been signed at Bucharest One of Aug 10, 1913, ended the second Balkan War By it Bulgaria gave up to the victors Rumania, Serbia Greece and Monfenegro, territory taken during the two wars The other signed May 7, 1918, gave to Bilgaria the territory which Rumania had acquired in 1913 It was annulled later in the year when the Allies had beaten Germany Russleyt choose Term used for the

Bucket-shop Term used for the stockbroker The term, supposed to have been coined in Chicago, is applied to the offices of stockbrokers, unconnected with a recognised stock exchange, whose business does not consist of the hypers and solling of does not consist of the buying and selling of securities, but in dishonest gambling with clients, speculating upon the rise and fall of share prices

Buckfastleigh Urban district of from Totnes, on the G.W Rly Here was a famous Cistercian abbey, now in ruins, and a new abbey has been erected by the Bonedictines Thoy settled here about 1890 and, except for a little expert assistance at the except for a little expert assistance at the start, they did the entire work themselves. The buildings include a fine church Pop

Buckhaven Burgh and seaport of Fite shire It stands on the north side of the Firth of Forth, 7 m from Kirkcaldy, on the LNE Rly There is a good harbou It is a fishing contro and has some other industries. There are coal mines near The burgh includes Methil Pop (1931), 176 (1931). 17,648.

Buckhound Breed of dog It is a was used for hunting the buck deer. For many years the English sovereigns maintained a pack of buckhounds and the meeter of the a pack of buckhounds and the master of the buckhounds was a court official until the office was abolished in 1901

Buckhurst Hill Urban district of It is about 10 m from London, on the LNE Rlv Near Epping Forest, it is a favourite residential area Pop (1931) 5486

Buckie Burgh and fishing port of Banff-buckie Shire It is 14 m from Keth, on the LNE Rly It is chiefly a fishing centre and las a harbour There are also some industries Pop (1931) 8688

and has a harbour Ther industries Pop (1931) 8688

Buckingham Borough of Bucking-the Ouse, 61 m from London on the LMS. Rly The Grand Union Canal also passes it Once the county town and a centre of the wool trade, it is less prosperous than formerly Near is Stowe, now a public school, once the residence of the Dukes of Buckingham Pop (1931) 3082

Buckingham Duke of English title. The first holder was Humphrev Stafford, a descendant of Edward III, who was killed at the Battle of Northampton in 1460 It became extinct when the 3rd duke was executed by Henry VIII in 1521. From 1623 to 1687 it was held by George Villiers and his son George From 1703-35 John Sheffield and his son were Dukes of Buckinghamships and Normany.

Buckinghamshire and Normanby
In 1784 George Grenville, Farl Temple, was
made Marquess of Buckingham, and in 1822
his son Richard was made a duke He was called Buckingham and Chandos because hemarried the heiress of the last Duke of Chandos. Richard, the 2nd duke (1797-1861) was a politician and the author of some interesting Memors His successor Richard, the 3rd duke (1823-99), was Colonial Secretary 1866-68 When he died in 1889 the dukedom became extinct. His titles of Earl Temple and Viscount Cobham passed to relatives, and his daughter became Baroness Kinloss The family seat was Stowe, near Buckingham

Buckingham George Villiers, 1st Duke of English politician A son of Sir G Villiers, he was born in Loicestershire, Aug 28, 1592 He went to the court of James I and was soon on very friendly terms with the king and his son Charles In 1617 he was made an earl, and in 1623 a duke In 1623 he became Lord High Admiral, and led fruitless expeditions to France and Spain He was killed by John Felton at Portsmouth, Aug 23, 1628 George Villiors, Buckingham

Buckingham Goorge Villers, 2nd Duke of English politician A son of the 1st duke, he was born Jan 30, 1628, and was only a few months old when he became duke He was educated with the children of Charles I. and at Cambridge took part in the Civil War and was with Charles II at Worcester In 1657 he returned from exile and married a daughter of Lord Fairiax, who had received the estates taken from him in

1649 He engineered Clarendon's fall and for six years 1667 to 1673, was a leading member of the Cabal He then associated with the Whigs and with the opposition to the govern ment generally, not disdaining Titus Oates He died April 16, 1687 A man of ability, as his plays, especially The Rehearsal, prove, Buckingham was licentious and unscrupulous beyond his fellows He is portrayed by Dryden as Zimri in Absalom and Achitophel

Buckingham Palace Roval re London It is so called after John Sheffield, 1st Duke of Buckinghamshire and Normanby, for whom, in 1703, it was built by a Dutch architect In 1761 George III bought it for £21,000 In 1825 its reconstruction, following designs by John Nash, was begun and in 1846 and 1856 respectively were added a new wing and the ballroom 111 by 60 ft Sir Aston Webb in 1913 designed a new front.

Buckinghamshire County of Eng south of the country, it has the Thames as its southern boundary and covers 842 sq m Aylesbury is the county town, other places are Slough, High Wycombe, Wolverton, Bucking ham, Chesham, Newport Pagnell and Amersham Here too are Eton and Olney The Ouse, Colne and Thames are the chief rivers The Chiltern Hills are in the south and its beech woods are famous The district known as Chiltern Hundreds (qv) is in the county In the Vale of Avlesbury and elsewhere is some of the richest land in England, Aylesbury butter and Aylesbury ducks being noted The historic associations of the county, such as Hampden, Hughenden, Dropmore and Jordans are many and varied The southern part of Buckinghamshire has become almost part of Greater London, which is reached by the LMS, GW and Metropolitan Rlys. It sends three members to Parliament. Pop (1931)

Buckle Henry Thomas English historian 24, 1821, and devoted himself to collecting materials for a history of civilisation The first volume was published in 1857 and a second in 1861 The work was never completed, for shortly after the publication of the second volume the author died at Damascus, May 29, 1862

Buckmaster Lord Stanley Owen 1861 Educated at Christ Church, Oxford, he read for the Bar, being called to the Inner Temple in 1884 He became Liberal M P for Cambridge in 1906, but lost his seat in 1910, he was re-elected for Keighley in 1911 He became Solicitor General and a Knight, 1913 Lord Chancellor and a Peer, 1915 After losing office in 1916, he acted in a judicial capacity in the Lords and is a zealous supporter of divorce law reform

Buckram Coarse linen or cotton fabric stiffened with glue or size It is used for making shapes for ladies hats, also for stiff coat linings and in book binding Onco buckram signified fine linen, and in the 15th century material for church vestments

Buckskin breeches, etc. Once it was made from deerskin 1.e., buck's skin but now chiefly from sheep skin A strong twilled woollen cloth is also called buckskin Buckskin breeches are frequently made from this

Buckthorn Tall British shrub (rhamnus carthanticus), with branches ending in sharp thorn like points The dense clusters of yellowish green flowers are followed by small shining black fruits, which, having purgative properties, have been used in medicine A foreign species yields the dyestuff Persian or yellow berries

Buckwheat Plant of the dock and knotstems, pinkish flowers and heart shaped leaves. The fruit resembles a beech nut It is a native of Asia will grow almost anywhere, and is a food for sheep and pheasants while the shelled fruit serves for cattle and pigs Buck wheat cakes are popular in the United States

Budapest City and capital of Hungary It stands on the Danube, Buda being to the west, and Pest to the east, 163 m from Vienna It is an important railway centre, and is also a river port With suburbs

it covers nearly 80 sq m

The city has many manufactures and is also the commercial and banking centre of the kingdom, as well as being its literary and social capital Along the river there are extensive quays and across it are some fine bridges Until 1526 the kings of Hungary lived in Buda and in 1867 it again became a capital city Pest, now the business quarter, is of less historio interest The two were formally united in 1873. In 1919 Budapest was occupied by the

Rumanians Pop (1930) 1 006,184

Buddha Name popularly applied to Sakyamuni, the founder of Buddhism Strictly speaking it is a generic title, for according to the Buddhist dootrine there have been many Buddhas, or enlightened ones of whom Gotama was the latest, but not necessarily the last.

Buddhas, or enlightened ones of whom Gotama was the latest, but not necessarily the last. Gotama was the son of the Chief of the Sakyas, an Aryan tribe settled about 100 m. north of Benares He was born in 568 m o At the age of 28 he experienced a profound religious change which caused him to leave his wife and child, and devote himself to poverty and wandering After several years of contemplation, he began to teach the doctrines he had elaborated, and soon gained disciples Most of his life was spent in the neighbourhood of Benares He died about 488 m c

Buddhism Religious system of Buddha. The two fundamentals of Buddhism are indicated by the words Karma and Nirvana Karma is commonly taken to mean transmigration of the soul continuing through repeated incarnations until the attain ment of the supreme bliss of Nirvana, which again is erroneously supposed to mean anni-bilation

By the elevation of its morality, its rejection of caste and proclamation of the brotherhood of man, Buddhism made rapid progress and reached the height of its influence under the Emperor Asoka (272 232 BC) but later Hinduism regained its ascendancy, and Buddhism now hardly exists in the peninsula. It has retained its hold in Ceylon, Farther India and Japan, and also has numerous adherents in China In Tibet it has developed into the remarkable system of Lamaism, which is highly sacerdotal and ritualistic

Bude Watering place and seaport of Cornwall It is 228 m from London and 18 from Launceston on the S Rly It is beautifully situated at the mouth of the River Bude At one time it did a considerable

finances It is, in fact, the national balance sheet In other countries a similar statement is made by the Minister of Finance The budget consists of two parts One is a statement of the actual revenue and expenditure for the past year, the other is an estimate of the revenue and expenditure for the coming year includes details of how the revenue is to be provided and whether there will be any increase or decrease in taxation

Budleigh Salterton Urban disside resort of Devonshire It is 4 m from Exmouth at the mouth of the River Otter, and on the S Rly Pop (1931) 3162

Buenos Aires City, seaport and capital of Argentina It stands on the River Plate, 150 m from its mouth, being on the south side of the river which is here 30 m wide It is a railway and aviation centre and has two large modern between with decks around the lawrent in the harbours, with docks among the largest in the world The city covers an area of 70 sq m Pop (1931), 2,195,200

Buenos Aires is a modern city and a feature is the number of handsome squares, called plazas The chief streets are wide and straight plazas The chief streets are who and satisfied and there are beautiful parks. Many fine buildings serve the city's commercial interests, and there is a university. The city has an enormous trade, especially in cattle, meat and grain, and has large abattoirs and markets. Founded in 1535, it was only a small place until 1535, when it was made the capital of Argentina. 1853 when it was made the capital of Argentina

Buffalo City of New York It stands just where the Ningara River leaves Lake Erie, at the eastern end of the lake, 420 m from New York Its position has made it a great industrial centre Served by many railway lines, it is also a lake port with a large harbour and miles of wharves, and a terminus of the Erie Canal In addition to an enormous distributing trade. the city has many many distributing trade, the city has many manufactures Electric power is obtained from Niagara The original name of Buffalo was New Amsterdam Pop (1930), 573,076

Buffalo Large animal belonging to the borndae or ox family It is distinguished by its somewhat three sided horns which arise close together from very flat bases low on the skull The Indian water buffalo is a heavy black-haired animal with long, curved heavy black-haired animal with long, curved horns set on a straight head bearing small cars The African species is not so heavy, and has a short neck, large ears and reddish hair It lives in swamps and is a fierce, untameable animal The American bison belonging to a different genus and distinguished by its humped body and small horns is often termed a buffalo Sec Bison

Buffer Shock absorbing Butter Shock absorbing object inter-to come into contact Station buffers are attached to solid masonry and consist of the buffer head of which the trains against the buffer heads of which the train pushes Rolling stock is fitted with buffers consisting

trade, especially after 1819 when the Bude Canal was opened, connecting it with Launceston and the Tamar Pop 3140

Budget Statement made once a year usually in April and May by the Chancellor of the Exchequer about the nation's finances It is, in fact, the national balance Discourse on Style, which brought him much fame

Bug Noxious insect found in most parts of the world Bugs belong to the order heteroptera and there are about 8000 varieties that live on land, besides many that live in the water Some of them feed on plants and are therefore harmful to vegetation. Bugs are very common in hot countries They have four wings and the mouth is so arranged that it can pierce the skin of the victim, and draw the blood or sap into a chamber in the insect's head

The bed bug, frequent in dirty houses, produces irritating bites Insecticides are used to

kill it, but cleanliness is its most potent enemy

Buggy Light carriage, formerly much used in America They had four wheels and were drawn by two horses or sometimes by one Another type of buggy, less popular, had two wheels only

Bugle Wind instrument used for military purposes A kind of trumpet, it is

usually of brass or copper and is employed for giving signals in barracks and camps. The key bugle, which has side holes, is a development of the bugle. A large bead, worn as an orna ment on women's dress, is called a bugle

Bugloss Plant (lycopsis arvensis) belong-grows wild in fields to a height of about a foot, bearing clusters of bine flowers. The whole of

the plant except the corolla of the flower is covered with sharp bristles

Buhl Style of decoration for furniture, perfected by André Charles Boulé, a wood carver in Paris in the 17th century, who inlaid pieces of furniture with thin sheets of tortoiseshell and matter silver award them. tortoiseshell and metals, silver among them In this way he formed thereon scrolls, car-touches, and other ornaments Buhl furniture is heavy, with curved lines and often decorated with ormulu (q v)

Building Society Association for enabling persons to buy or build houses Each society consists of members who purchase shares, sometimes by payments at monthly or other regular intervals. These and other funds are used to enable them to buy houses The societies also receive money on deposit from persons who are not members Provided they are incorporated, they can own land and raise money very much as a limited company can

In Great Britain building societies are re gulated by law, several measures having been framed for this purpose Their accounts are supervised by the registrar of friendly societies Some of the societies have become very large and prosperous indeed In 1931 there were in Great Britain 1013 societies with over 1,400,000 members and investors Their total funds were over £420,000,000 There is a national union of building societies, and in their interests a paper, The Building Societies Gazette, is published

Rolling stock is fitted with buffers consisting of alternating rubber springs and steel plates

Buffon Count. French scholar Born Leelere Buffon was educated by the Jesuits at

Builth Wells Urban district, market town and watering watering place of Breconshire There are baths for the waters which have curative properties The town is beautifully situated where the River Irron falls into the Wye Pop (1931) 1663

Bukovina Mountainous district DUKOVINA Rumania. It is largely covered with forests and has rich salt mines Czernowitz is the capital Its area is 4000 sq m and pop about 800,000 There was a good deal of fighting in Bukovina in 1914 1916 between the Austrians and the Duckers. the Austrians and the Russians

Bulawayo City of Rhodesia It is 1360 m by rail from Capetown and is connected by rail with other cities of S The town was formerly the capital of

the Matabele Pop 31,000

Bulb Term popularly used to include, not only the true bulbs, eg, tulip or only, but also any form of underground stores of plant nutriment which develops roots, stems and leaves when placed in suitable conditions eg, crocus, dahlia anemone The corm of the crocus consists of the swollen base of the stem whereas the true bulb is made up of over membranous sheaths which membranous sheaths which are leaves. The culture of garden feature in Holland lapping structurally leaves buibs has been carried to perfection in Holland

Bulford Village of Wiltshire It is on London, on the S Rly There is a large military camp

Bulgaria Country of Europe On the east it is bounded by the Black Sea and clsewhere by Rumania, Yugo slayia and Greece its area is 39 814 sq m On the the Sofia is the capital and the largest town Other centres of population are Philippopolis centres of population are Philippopolis (Plovdiv) and Ruschuk The chief ports are Varna and Burgas Bulgaria is mountainous, but possesses a good deal of fertile land The chief rivers are the Struma and the Maritza The prevailing religion is the Greek Church The people are mainly engaged in agricultural occupations. The chief crops are wheat, maize barley and rye a good deal of fruit is grown and some wine is produced

The country is ruled by a king and a cabinet which is responsible to a national assembly or Solvance of 227 members, who are elected by all adult males The chief coin is the lev equal to the franc, which is also in circulation, as is paper money issued by the national bank. The metric system is used. The country has an

army, but no navy / Bulgaria was made a principality in 1878, till Hugaria was made a principality in 1878, till then having been part of Turkey In 1885 Eastern Rumelia was added to it In 1908 Prince Ferdinand declared himself king and reigned until 1918 when he abdicated and was succeeded by his son Boris

Bulkhead the given to the participation of the participation

it into watertight compartments. They are found especially, in battleships, when they are numbered. They word is also used for similar

partitions in tunnelling operations

Bull Male animal of the ox family It is used for breeding beef or dairy cattle and for fattening In the breeding of cattle a bull is selected according to the end in view for dairy purposes the bull should be bred from a cow which is a good milker, but for beef cattle the animal is chosen for its own particular merits The bull was worshipped in Egypt which had a sacred bull Buchis Armant was the centre of this worship was the centre of this worship

Bull Baiting is a sport formerly popular in England A bull was tied to a stake, and then attacked by dogs, usually bulldogs or mastiffs Many towns had bull rings for this purpose, and the name is retained in Birmingham and elsewhere Bull Running consisted in irritating a bull by blowing pepper into its eyes and nostrils, turning it loose, and then hunting it through the streets Both were forbidden by a law passed in 1835

Term used for a pronouncement made Bull Dull by a Pope Famous bulls are the one of Pope Alexander VI which divided the New World between Spain and Portugal in 1498, and the one of 1870 which asserted the in fallibility of the Pope Formerly the word was used for pronouncements made by emperors and kings, such as the Golden Bull of the emperor, Charles IV (1356) The name is due to the fact that the documents were stamped with a seal (Lat bulla)

Bulldog Breed of dog formerly used for Since about 1880 the breed again has come into favour owing to the formation of several bulldog clubs. The bulldog is characterised by its massive body and short legs, short muscular neck, broad, square head with large wide nostrils, small ears and square jaws, the lower jaw projecting beyond the upper. Two other varieties are the miniature bulldog and the French bulldog

Bull-frog Name of a large N American 7 8 in in length, which bellows like a bull, hence the name, which has been incorrectly applied to other large species

Buller Sir Redvers Henry English Soldier Born in Devonshire Dec English , 1839, he was educated at Eton and entered the army He saw a good deal of active service, being in China, Canada, Ashanti and the Sudan, as well as in the Zulu War, where he won the V C He rose to be a general and commander at Aldershot and in 1899 went out as commander Aldershot and in 1899 went one as commanded of the forces sont against the Boers. Although he relieved Ladysmith his recall in 1900 was necessary and Lord Roberts took his place. He returned to Aldershot, but, in 1901, after a speech he was superseded. He died June speech he was superseded. 2, 1908

Bullet Small missile. The earliest bullets were made of lead, cast into balls, but with the inception of rifled barrels a change took place in design Modern bullets are almost took place in design blodern bullets are almost all cylindrical in shape, with a pointed or rounded nose and those used in war are generally coated with nickel Hollow headed bullets are used for shooting big game, such as elephants but their use is forbidden in war

Bull Fighting National sport of held in large rings and are attended by thousands, Sunday being the usual day for them The typical fight is divided into three parts The first is a ceremonial, ending with the loosing of the bull which is goaded by the short successful the picadares. In the second the short spears of the picadores In the second the banderilleros further irritate the animal by piercing it with darts. In the third the matador stabs the bull to death. Red and other bright colours are worn, and various devices employed to enrage the bull

Bullfinch European bird It is small black and bluish-grey, red or chocolate breasted according to sex and a native of woods Its wild song is negligible, but in captivity it can be taught in the moulting

RONAWN 207 BULLION

season to memorise and whistle tunes heard on a whistle It nests in May, laying five eggs

Bullion Refined precious metal not yet once meant melting house or mint, and its first recorded mention is in 1451. Stores of bullion, both gold and silver, are kept at the Bank of England and the Mint England and the Mint

Bull Terrier Breed of dog formerly bred for fighting and rat killing. The bull terrier has a long wedgeshaped head with strong level jaws, small dark eyes and semi-creet ears. Its short body is of a white colour, and it has a broad chest, legs of medium length, and weighs from 15 to 50 lb A small variety, the toy bull terrier, weighs under 15 lb. The bull terrier is courageous, seldom bad-tempered and is not quarrelsome

Bully Beef Preserved meat, usually issued as rations to soldiers on active service

Bulow Prince von German statesman Bernhard Heinrich Martin Kail Bülow was born in Holstein, May 3, 1840 He became a soldier and served in the Franco-German War, but soon afterwards (1873) he entered the diplomatic service. As a junior member of the service he gained experience in various capitals, and in 1893 was made Minister at Bucharest From 1893-97 he was Ambassador in Rome, and from 1897-1900 was Forcign Secretary In Oct, 1900, he was made Imperial Chancellor, a post he held until 1909 In Dec, 1914, he left his retirement to become Ambassador in Rome Made a prince in 1905, Billow wrote a book, translated into English as Imperial Germany, in which he tried to justify his country's policy. Ho died Oct 28, 1929

Bulwark Rampart of protection This word is applied to walls and similar structures raised for defence, and is specially applied to the plating of a ship above the upper deck. It is figuratively used to denote anything that wards off danger

The Bulwark was the name of a battleship of 15,000 tons completed in 1902 On Nov 26, 1914, she was blown up when at anchor in the Medway, only 12 men being saved out of a crew of nearly 800 An earlier Bulwark is now used

as a training ship

Bumboat Broad, clumsy boat used for conveying provisions, fruit, and other wares to vessels lying in port or off shore A scavenger's boat used to convey refuse from ships is sometimes called a bumboat.

Bunbury Borough, seaport and watering place of Western Australia It stands on Koombanah Bay, 112 m. from Perth There is a good harbour, from which coal and other produce of the state is exported Pop 5.,70

Buncombe County in N Carolina, a debate in Congress, the member for the constituency in which Buncombe was situated admitted that his long speech was made simply to please his constituents Buncombe, or builting this came to man inshearity or or bunkum, thus came to mean insincerity or humbug

Bundaberg Town and river port of Queensland. It is on the River Burnett, about 10 m from the sea, and exports timber and sugar, which is grown in the neighbourhood Distilling, brewing, and brick-making are carried on It is connected by railway with Brisbane, which is about 200 m. to the south Pop. (1931) 11,250.

season to memorise and whistle tunes heard on Bungalow House with one story, a whistle It nests in May, laying five eggs It originated in India and other hot countries, and in the 19th century became popular in the country and seaside parts of England.

Bungay Market town and urban district of Suffolk It is on the Waveney, 7 m from Beccles and 114 from London, on the LNE Rly The industries include large printing works and flour mills, and there is a trade along the river Pop (1931) 3098

Bunhill Fields Cemetery and public garden in Finsbury, London It is in City Road, opposite Wesley's Chapel, and covers about six acres It was used as a burial ground in the 17th century, especially for Nonconformists, and here are the graves of John Bunyan, Daniel Defoe, Isaac Watts and others It was made a public garden in 1869

Bunion Inflamed swelling of the liquid-iont of the big toe It is caused by pressure of badly fitting shoes and can be relieved by the removal of its cause, and by hot fomentations Seriously inflamed bunions require a surgical operation.

Bunker Hill Height outside Boston, Mass On a neighbouring hill, Breed's Hill, a battle was fought during the American War of Independence, on June 17, 1775 The Americans fortified the hill which was attacked by the British Twice they were driven back, but the third assault was successful The British lost 1000 men.

Bunsen Robert Wilhelm von chemist Born at German DURSCH chemist Born at Göttingen, March 31, 1811, he became Professor of Chemistry at Cassel, in 1837, and later (1852) at Heidelberg. He made many important disat Heidelberg He made many important discoveries, among which were the isolation of the metal barium, the discovery of caesium and rubidium, and the first accurate study of the absorption of gases He devised the Bunsen burner in which an odourless, colourless flame with great heat is obtained by burning a mixture of air and gas, the air being admitted at the base of the gas burner From this type of burner baye been evolved the burners used of burner have been evolved the burners used in cooking and heating stoves, and with gas mantles Bunsen died Aug 16, 1899

Bunt Fungoid pest which attacks maize, barley and wheat rendering them foul and black Its innumerable microscopic spores cause widespread infection Bunt prevented by pickling the seed corn Bunt may be

Bunter Beds Name given to the long series of the Triassic systems of rocks in Britain These beds consist of fine-grained, mottled sandstones and pebbly conglomerates attaining a thickness of about 1500 feet in the midland counties of England in which area they serve as the chief source of the water supply for the large towns.

Bunting Name of a group of sman blank comprising the genus emberga. It includes the common or corn bunting, the yellow-hammer and the ortolan-bunting

Buntingford Market town of Hert-fordshire It stands on

the little River Rib, 17 m from Hertford and 34 from London Pop 4926

Bunyan John English writer Born in Nov. 1628, in a hamlet near Flstow, he became, like his father, a tinler In 1645 he took part, on the side of the parliament, in the Civil War, and in 1648 he married Soon,

having read some books of a religious nature, he became a converted man He began to preach, and continued to do so until put in gaol for so doing in 1660 He remained there, writing a doing in 1660 He remained there, writing a good deal, until 1672 when he was released The rest of his days were spent in Bedford in preaching and writing, he also preached in London He died Aug 31, 1688, and was buried in Bunhill Fields, London There are several memorials to him in Bedford Bunyan wrote many books, but one, The Pulgrim's Propages stands out A masterplace of English Progress, stands out A masterpiece of English prose, it was begun in prison and finished in 1678 Others are The Holy War, Grace Abounding, his earliest effort, and The Life and Death of Mr Badman

Floating body anchored at sea, in Buoy Buoy coastal waters, rivers and es tuaries for the guidance of navigators Buoys have been used in the Thames since 1540 In 1822 a system was evolved whereby the shapes and colouring of buoys should indicate fair ways, hidden dangers, navigable limits, etc In Great Britain the control of buoys is under

taken by Trinity House

Burbage Richard English actor Born in 1567 he became an actor when a boy and was a member of several companies He had made a reputation when owing to his father a death in 1597, he inherited a share in the Blackfriars Theatre, London With his brother, Cuthbert, he built the Globe Theatre, but his great claim to fame is his association with Shakespeare He played some of the greatest of Shakespeare's characters, Hamlet, Othello, Lear and others, and also tragic parts in plays by Ben Jonson and Webster He died March 13 1619, and was buried in Shoreditch His father James Burbage, who was a joiner before he became an actor, built theatres at Shoreditch and Blackfriars

Burdett-Coutts Baroness English Angels Georgina Burdett was born April 21, 1814 She inherited money from her parents and also a large fortune from the actress Harriet Mellon, her father's second wife She devoted large sums to charities of all kinds and became the leading philanthropist of her time She was also a prominent figure in the social life of London In 1871 she was made a peeress and she died Dec 28 1906

Burdock Common plant (arctium lappa) Found wild in waste places, it grows to about four feet in height, and, on account of its large wavy leaves, is often introduced by artists into the foreground of a picture The artists into the foreground of a picture. The purple flower heads are succeeded by burns covered with hooked scales

Bureaucracy Form of government in which paid officials exercise the controlling influence It is generally used as a term of reproach, the idea being that such officials pay excessive attention to detail and routine work to the neglect of the general good

The word bureau is very generally used for an office eg, a bureau de change or an inquiry office. It is also a piece of furniture usually a combination of a chest of drawers and a

writing desi

Burford Marl et town of Oxfordshire it stands on the Windrush 13 m from Oxford The town is chiefly visited for its picturesque houses Pop 1050

Burford Bridge is a hamlet on the Mole, near

Box Hill, in Surrey

Burgee Small pennant used by yachts and pointed or swallow tailed, the owners status Club flags are always pointed, those of a commodore or vice-commodore are swallow tailed. Only the Roval Yacht Squadron may fly the white ensign, but other royal clubs may bear a crown on the burgee

Burgess Form of burgher, one who lives in a borough. It is sometimes used for the men sent to Parliament by the boroughs and universities, although its early meaning was for the voters In some of the American colonies, e.g., Virginia, the elected representatives were known as the House of Burgesses, and the term is still in use

Burgesses, and the term is still in use

Burgess Hill Urban district of Sus
sex It is 9 m from
Brighton and 41 from London, on the S Rly
There are some industries, but it is mainly a
residential area Pop (1931) 5975

Burgh Scottish word for a chartered
town or borough Each has its
council presided over by a provost or lord
provost, and consisting of councillors and
bailies Burghs are of several kinds The
older ones are the royal burghs that obtained
their charters from a king, and burghs of
barony that obtained them from a lord or
bishop In addition there are parliamentary bishop In addition there are parliamentary burghs and police burghs the former are separately represented in Parliament Police burghs are places which have been made burghs in modern times, they look after their own lighting drainage etc Each year representatives of the burghs meet in a con vention in Edinburgh

Hubert de Burgh English statesman Born about 1175 be was cham berlain and then justiciar under King John When Henry III became king he continued as justiciar but his position was really that of regent. In 1217 he won a naval battle with the French and he kept himself in power until

1232 He died May 12 1243

Burghley Baron English statesman William Cecil was born at Cecil of Burghley He went to Cambridge S John's College and in 1547 entered the House of Commons becoming a secretary of state in 1550 During Mary s reign (1553 58) he was not very prominent but he won the confidence of the Princess Elizabeth who made him her secretary when she became queen in 1558 From then until his death he was her chief advisor and with her was responsible for England's foreign policy Ho was made a for England's foreign policy. He was made a baron in 1571 and died April 4 1598. His son Thomas was made Earl of Eveter and another son Robert, Earl of Sallsbury

Burghley House Residence of the Marquess of Exeter It stands in a large park just outside Stamford The house was built towards 1600 by the great Lord Burghley It contains some beautiful decorations and valuable works of

The eldest son of the Marquess of Exeter bears the title of Viscount Burghley The present holder of that title is a famous athlete Born in 1905 he has performed some remarkable feats as a hurdler at which he has represented Cambridge and England at the Olympic Games In 1931 he was elected MP for the Peter borough division

Burgomaster In Germany the mayor

masters are usually paid

Burgos City of Spain, 220 m from Madrid which it is connected by railway It has some industries, but is chiefly known for its cathedral, one of the finest and largest in Spain A Gothic building, it was 300 years in building and is remarkable for its alters and statues The citadel is much older and of almost equal interest. At one time Burgos was the capital of Castile. In the Peninsular War it was besieged and finally taken by the British Pop (1931) 40,161

Burgundy Name of a district chiefly in France, but partly in Switzerland It lies around the rivers Rhône and Saone, its chief towns being Dijon, Arles, Besançon and Vienne There was a kingdom Besançon and Vienne There was a kingdom of Burgundy in the Middle Ages, from about 900 to 1032, when it became part of Germanv Its capital was Arles Franche Comte was another Burgundy, as it was really the free county of Burgundy Its capital was Besançon and it became part of France in 1679

The most important Burgundy was the duchy which lasted from 1032 to 1482 It was really reast of France, but its duchas being also

really part of France, but its dukes, being also rulers of Flanders, became so strong that they acted as independent sovereigns. This was especially true of Charles the Bold, but after he was killed in 1477 the King of France found it mostlyle to a second the second in the second it possible to annex most of Burgundy and from then until 1789 it was a province of France A grandson of Louis XIV was called Duke of Burgundy

The wines grown in the district are called Burgundy They are both red and white and are among the most popular of those drunk in Britain Beaune and Chablis are among them

Burke Edmund Irish writer and states-educated at a private school at Ballitore and educated at a private school at Ballitore and Trinity College, Dublin Going to London he carned a livelihood by writing for The Annual Register and in other ways In 1765 he became private secretary to Lord Rockingham and entered the House of Commons as M P for Wendover From 1774 to 1780 he sat for Bristol and from 1781-94 for Malton He acted for years with the Whigs and was paymaster general in 1782-83, but never held higher office He had a strong political attachment to Fox, but in later life he broke this friendship and the excesses of the French friendship and the excesses of the French Revolution made him bitterly opposed to all ideas of change Outside Parliament he was a member of the circle that gathered round Johnson He died July 8, 1797 Burke was a constant speaker in Parliament

and some of his writings were originally speeches. These reveal him as a political philosopher of the first rank, but he was more than that A wealth of learning was stored in a mind of unusual strength and fertility, wide reading and natural gifts enabled him to express himself in a rich and stately prose His works began with a Fundication of Natural Society, but more important are his Thoughts on the Present Discontents. In a group of on the Present Discontents. In a group of speeches he examined with his usual power the relations between the American colonists and the mother country and in him the former found their most powerful champion With these may be placed the immortal Letter to the Sheriffs of Bristol, another lucid statement of fundamental principles

A further group of writings deals with India

city or town It is also used in the same sense He was largely responsible for Fox's India Bill in Belgium and the Netherlands Burgo and he was one of those who impeached and he was one of those who impeached Warren Hastings, his speech on that occasion Warren Hastings, his speech of the last being one of his greatest efforts. The last writings from his pen dealt with the French that he depounded bitterly. They Revolution which he denounced bitterly include the Appeal from the New to the Old Whys and Letter on a Regicide Peace

Burke Robert O'Hara Australian explorer, born in Galway in 1820 After some years first in the Austrian army and then in the Royal Irish Constabulary, he emigrated to Australia in 1853 and became en inspector of police at Melbourne. In 1860 he was appointed leader of an expedition that was to cross the Australian continent from south to north Very early in the expedition dissensions broke out and several members Burke and the rest went on to Cooper's Creek, Queensland, where they waited for fresh supplies The relief party being delayed, Burke and three companions pushed on After great privations they succeeded in reaching the estuary of the Flinders river on the Gulf of Carpentaria, but on the return journey three of the four, including Burke, died of starvation The survivor was saved by natives The date of Burke's death was June 28, 1861

Burke Sir John Bernard British scholar Born in London, Jan 5, 1814, his father, John Burke (1787-1848) was the founder of the Peerage and Baronetage and the Landed Gentry which still bears the family name The son took over the work of editing these volumes in 1847 and did other work of a similar kind In 1853 he was made Ulster king at-arms and in 1854 he was knighted He died Dec 12, 1892

Burley -in-Wharledale Urban district of Wharfe, 3 m from Ilkley, and is served by the LMS and the LNE Rlys The chief industry is the manufacture of woollen goods Pop (1931) 3960

Another Rurley is in Burley A Landed Gentry which still bears the family

Another Burley is in Rutland, 2 m from Oakham Here is Burley Hall, a beautiful house in a large park, once the seat of the Earl of Winchelsea

Burlington House Public building in Piccadilly, London It is the headquarters of several learned societies and here each year the Royal Academy holds its annual exhibition of pictures It consists of Old Burlington House, built by the Earl of Burlington and bought by the state in 1854 and New Burlington House built after that date The societies here built after that date. The societies here include the Royal Society, the British Academy, the British Association, the Chemical Society and others

The title of Earl of Burlington is borne by the Duke of Devonshire It was given to a member of the Cavendish family in 1831 and in 1858 William, the 2nd earl, succeeded his cousin as 7th Duke of Devonshire

Burma Province of British India On the east side of the Bay of Bengal, it extends from Manipur in the north to Siam in the south, and is bounded on the east by China, Annum and Slam The total area is about 233 492 sq miles and the population (1931) 14,667,146

The province is divided into Upper and Lower Burma The latter passed into the possession of the British crown in 1852 as the result of the second Burmese war The former remained an independent kingdom for over 30 years longer, but in 1885 the misrule and

barbarity of King Theebaw led to British intervention Theebaw was deposed and his country was annexed to British India in Jan, 1886, and in the same year the Shan states were added to the province For administrative purposes the division into Upper and Lower Burma has been retained, the capital of the former being Mandalay and of the latter Rangoon, which is also the chief seaport The principal rivers are the Irawadi and the Salwin The Burmese are an Indo Chinese race, closely akin to the Tibetans, highly intelligent and amiable, but not conspicuously industrious They are Buddhists There are large and growing communities of Hindu and Chinese immigrants, the latter forming the bulk of the shopkeeping and business classes The principal industry is agriculture, but the mineral wealth of the country is considerable, including petroleum Rice is one of the principal exports The Burmese are famous for their silk weaving and dyeing

BURMESE WARS There have been three

wars between the British and the Burmese The first lasted from 1824 to 1826 and ended in the cession of some territory by Burma The second in 1852 resulted, after the capture of Rangoon in the annexation of Lower Burma by the British The third war was against King Theebaw in 1885 He and his capital, Mandalay, were selzed and Upper Burma was

annoxed

The royal commission on the government of India that sat in 1928 30 advised the separation of Burma from India if such a course was approved by the people In 1932, therefore, it was decided to submit the matter to the vote and arrangements were made for providing the country with a new constitution in 1934 if the voters decided for separation.

Burnaby Frederick Gustavus English March 3, 1842, he was educated at Harrow and entored the army In 1876 he rode across Central Asia in the winter and his account of this, A Ride to Khwa, made him famous On Horseback through Asia Minor describes other adventures, and he crossed the Channel in a balloon in 1882 On Jan 17, 1886, he was killed in the fight at Abu Klea

Burnand Sir Francis Cowley English journalist Born in London, Nov 29, 1836, he was educated at Eton and Trinity College, Cambridge Having given up the idea of taking orders, he became a barrister In 1863 he joined the staff of Punch of which he became editor in 1880 He resigned in 1906 and died April 21, 1917

Burnand wrote many plays, chiefly comedies and burlesques, of which Black Eyed Susan and The Colonel were among his best His series of Happy Thoughts, first published in Punch, were issued afterwards in book form, and a number of other books of light or burlesque character came from his pon

Burne-Jones Sir Edward Coley English artist, born in Birmingham, Aug 28, 1833, and educated there and at Exeter College, Oxford, where he became associated with William Morris and Rossetti in their aesthetic movement. His best works are cartoons for stained glass, but he also painted in oil and water colours Burne Jones' picture of "King Cophetua and the Bergar Maid" was purchased for the Tate Gallery in 1910 and other of his paintings are "The Golden Stairs," "Merlin and Vivien," "The Merciful Knight" and "The Wheel of

Fortune" Burne Jones was one of the founders of the Pre Raphaelite brotherhood He was made a baronet in 1894 and died June 17,

Burne Jones's son and successor, Philip (1861-1926), was also an artist When he died the baronetcy became extinct

the baronetcy became extinct when he died the baronetcy became extinct Burnes Sir Alexander Scottish traveller A kinsman of Robert Burns, the poet, he was born at Montrose, May 16, 1805 He entered the Indian army in 1821, and, owing to his aptitude for Indian languages, was soon employed in political work in the north west, which gave him the opportunity of making important journeys of exploration Between 1831 and 1833 he travelled through Afghanistan to Bokhara and Persia, and on his return to England in 1834 published an account of his journey In 1836 he was sent on a mission to Dost Mohammed at Kabul As a result he advised the Indian Government to support Dost Mohammed against Shah Shufa, but his advice was rejected with disastrous results In 1830 he was appointed as resident political agent at Kabul, where he was murdered by the mob during an insurrection Nov 2, 1841

Burnet Gilbert English prelate and He was born in Edinburgh, Sept 18, 1643, studled at Marischal Collego, Aberdeen, and entered the Presby terian ministry, but afterwards took episoopal orders In 1664 he became Rector of Saltoun, East Lothian, and in 1669, Professor of Divinity

in the University of Glasgow

In 1674 Burnet went to London, and was appointed chaplain of the Rolls Chapel In 1877 he published his continuation of Spottis woodes History, his first important work His strong anti-Roman opinions having alienated him from the court on the accession of James II, he retired to the Continent and settled at the Hague where he obtained the favour of William of Orange At the Revolution he returned to England with William and Mary, and was rewarded for his services with the bishopric of Sallsbury He remained bishop there and an influential figure at court until his death, March 7 1715 His remarkable History of His Own Time, published in 1724, is of great value to historians

Burnett Frances Eliza Hodgson English authoress Born in Manchester, Nov 24, 1849, she passed her early days in the United States In 1877 she made a reputation with That Lass o' Lowries, and this was greatly enhanced when Little Lord Fauntleroy appeared in 1886 She wrote other novels, including A Fair Barbarian, and several plays including His Grace of Ormande and Lismeralda Miss Hodgson married first L M Burnett of New York and secondly Stephen Townessend She died Oct 29, 1924

Burney I Frances Inglish writer called usually Madame d'Arblay or Fanny Burney Born at Kings Lynn, June 13, 1752 she was a daughter of Charles Burney (1726 1814), author of a History of Music In 1760 the Burneys moved to London and their home became a social centre Johnson and Garrick being among its many visitors In 1778 Fanny published anonymously a novol called Ereina This was a distinct success and soon its authorship became generally known It was followed by Cecilia 1782 In 1786 Miss Burney became second keoper of the robes to Queen Charlotte and in 1793 she married an exiled French general, Alexandre d'Arblay After this event she published

Diary and Letters appeared in seven volumes in 1842-46 She died in London, Jan 6, 1840

Burney Sir Charles Dennistoun English was a son of Sir Cecil Burney (1858-1929) who was second in command of the Grand Fleet at

the battle of Jutland and who, having been made a baronet, died, Jan 5, 1929

Charles Burnev entered the navy in 1905 and served through the Great War He is known as the inventor of the paravane and a builder of sixthing boung the beed of the form builder of airships, being the head of the firm that built the R100 at Howden From 1922-29 he was Unionist M.P. for the Uxbridge division

Burnham Baron English journalist born in London, Dec 28, 1833 a son of J. M English journalist Lovy, one of the founders of The Daily Tcle-graph In 1855 he became the principal owner of that paper and under his direction it became a very valuable property. Having taken the name of Lawson, he was made a baronet in 1892 and Baron Burnham in 1903. He died Jan 9, 1916

Burnham's elder son, Harry Lawson Webster Lawson who became the 2nd baron, was born Dec 18, 1862 He was educated at Balliol College, Oxford, and was the head of *The Daily* Telegraph from his father's retirement in 1904 until he sold it in 1927 He was a Unionist Teleraph from his father's retirement in 1904 until he sold it in 1927. He was a Unionist MP, 1885-92, 1893-95, 1905-06 and 1910-16. In 1919 he was made a viscount. He served on a number of commissions, including the one that, in 1928-30 reported on the future status of India, and was chairman of the committee that fixed the Burnham scale of salaries for teachers. Died 1933.

Burnham Beeches Beauty spot in Buckinghamshire It is 425 acres in extent, and is the remaining part of an ancient forest. It was purchased by the corporation of the City of London in 1879 for the use of the people. It is reached by omnibus from Sloug.

Burnham-on-Crouch Urban and seaport of Essex It stands on the north side of the Crouch estuary, 43 m from London on the LNE Rlv lt is known for its oyster beds, but perhaps more as a vachting centre, one of the most popular in England A richting week is held every Suptember Pop (1931) 3395
There are several other Burnhams in Eng-

land Burnham in Somerset is a small watering place on the Bristol Channel It is 146 m from London and is screed by both the GW. and the S Rivs Burnham Thorpe in Norfolk the birthplace of Nelson, has an interesting old church Burnham market, also in Norfolk, was once a market town

Burnham Scale Scale of salaries for teachers in England and Wales The scale was drawn up in 1919 by a committee over which Viscount Burnham in which verse of a very different kind was separately with teachers in elementary school. separately with teachers in elementary schools, secondary schools and technical schools cach of these maximum and minimum salaries were laid down with the amount of the annual increment in each case scales for head teachers, and assistant teachers, first importance men teachers and women teachers

The scales were accepted by most of the

Camilla, 1796, and The Wanderer, 1814 Her reducation authorities and the teachers to agree upon a new scale, and the matter was again referred to a committee presided over by Lord Burnham The result was another set of scales in which, on the whole, the salaries were somewhat lower than those of the 1920 scales

Burnley Borough and market town of Lancashire It stands on the little river Brun, just where it joins the Calder. 27 miles from Manchester and 212 from London, on the LMS Rly Burnley is a centre of the cotton trade and has also machinery works In the neighbourhood are coal mines

The town has a famous Association football This was founded in 1881 and won the Association Cup in 1914, and the championship of the League in 1921 Pop (1931) 98,259

Burnous Arab garment It is a kind of high crowned cape, or cloak and hood, woven in one piece and worn by Arabs and Moors of both sexes

Burns John English politician. Born in London, Oct 20, 1858, he worked in a candle factory at Battersea and then as Soon he became known as a an engineer forceful speaker at socialist and trade union meetings and in 1885, as a social democrat, ho stood for Parliament (W Nottingham) In stood for Parliament (W Nottingham) In 1886 he was sent to prison for his share in a riot of the London unemployed In 1889, the year in which he took a promment part in the strike of the dock labourers, he was elected to the LCC In 1892 he entered Parliament as MP. for Battersea Gradually his opinions became less extreme and in 1905, as president of the Local Government Board, he entered the Liberal Cabinet. In 1914 he was transferred to the Board of Trade, but on the outbreak of the Great War he resigned He kept his seat in Parliament until 1918

Burns Robert. Scottish poet. Born at Alloway, Ayrshire, Jan 25, 1759, he was the son of a man who farmed a little Born at land, but was also something of a student He received a fair education He worked on the farm for some years, then carried on an unsuccessful business at Iryine and in 1784. his father being dead, settled on a farm at Mossgiel, Mauchline In 1786 he went to Edinburgh and in 1788 he took a farm in Dumfilesshire in 1789 he became an exciseman Like his other occupations this work was uncongenial, but his unhappiness was due partly to his own impradences He died at Dumfries, July 21, 1796, being 37 years old only

Burns had many love affairs, notably with Jean Armour, whom he married in 1786, and Mary Campbell He is recognised as the national poet of Scotland and his birthday is celebrated with increasing fervour by Scotsmen

songs are amazingly musical, others are master-pieces of sature, eq. Holy Wilhe's Prayer The best known is The Cotter's Saturday Night The publication of a volume of these at Kil-There were separate marnock in 1786 was a literary event of the Burns is the subject of an immense literature

The scales were accepted by most of the education authorities and remained in force for five years as arranged. At the end of that period (1925) it was found impossible for the

In serious cases, and especially with children, shock (qv) must be guarded against, as this may prove fatal when the injury would not

Burntisland Burnh and scaport of Fifeshire It is on the Firth of Forth, 20 m from Edinburgh, on the LNE Rly There are some industries, chiefly connected with shipping for which there is a good harbour Pop (1931) 5389

Burr Botanical name for the prickly covering of some fruits, such as the horse chestnut. The heads of the burdock and the rough minute fruits of the goose grass

are other examples

In Geology, burr stone is a siliceous rock used for millstones The rough edge left on metal after cutting with a tool is termed a burr, and it is also the name of a small circular Baw

Burr Aaron American statesman He was born at Newark, New Jersey, Feb 6, 1756, served with distinction in the War of Independence and afterwards practised law in New York He was attorney general for New York State from 1789 to 1790 and a senator from 1791 to 1797 In 1801 he stood for from 1791 to 1797 president and in the electoral college tied with Jefferson, but on a vote of the House of Repre sentatives Jefferson was elected and Burr had to be content with the vice presidency Throughout his career he was bitterly opposed by Alexander Hamilton, who, in 1804, succeeded in bringing about his defeat for the governorship of New York. The personal animosity of the two men resulted in a duel in which Hamilton was killed. Burr was indicted for murder but acquitted. Ho later attempted a murder but acquitted Ho later attempted a filibustering expedition to Texas, was tried for treason, but acquitted, and never recovered his place in public life He spent some years in Europe trying to gain support for new fillbustering schemes, but without success. He died Sept 14, 1836

Burry Port Urban district and scaport of Carmarthenshire It stands on Burry Inlet, four miles from Llanelly, on the G W Rly The chief industry is the

export of coal Pop (1931) 5752

Burry Inlet is the estuary of the river
Loughor It is 12 m long and about 4 wide

Bursar Term used at the colleges of Cambridge for an official who looks after the college accounts It is also used in the same sense in the public schools, and in 1932 an association of these officials was founded His office is called the for a grant of money made to a student, which in England is called a scholarship or exhibition

District of Staffordshire part Burslem Of the county borough of the L M S Rly The chief industry is the manufacture of pottery which was begun here in 1644 In 1878 Burslem was made a borough and in 1908 it became part of Stoke-on Trent (q v )

Burton Robert English writer He was became year of S Thomas's, Oxford, and rector of Segrave, Leicestershire, but lived of Suffolk It is on the Lark, 85 m from

covering the part with clean linen or lint most of his life at Christ Church, Oxford He soeked in a weak solution of picric acid (or was a keen student of many branches of bicarbonate of soda if this is not available), learning, and at his death in 1640, many of on top of which a pad of cotton wool is placed, then a piece of clied silk and lastly a bandage. In serious cases, and especially with children, shock (q v) must be guarded against, as this shadow of Melancholy, a work of singular shock (q v) must be guarded against, as this charm He died Jan 25, 1640

Burton Sir Richard Francis Br explorer and orientalist mixed Anglo Irish and Scottish descent, British Of the son of an officer, he was born March 19, 1821 In 1842 he went to India as a subaltern in the Bombay native infantry, and for several years worked on the Sind survey, often dis guising himself as a native and obtaining an guising himself as a native and obtaining an intimate knowledge of Oriental life and manners On his return to England he published several books on India, and in 1853 set out on his famous journey to Mecca and Medina, disguised as a Pathan Moslem His account of his exploit, The Pilgrimage to Al Medinah and Meccah created a great sensation when it appeared in 1855.

In 1851 he undertook an even more remail.

In 1854 he undertook an even more remark able and far more dangerous expedition into Somalliand which he accomplished successfully, though his life was in constant peril Two years later he was sent by the British Govern ment to search for the sources of the Nile and, accompanied by Speke, discovered fanganyika and the Victoria Nyanza. Lake 1861 he entered the permanent service of the Foreign Office and was consul successively at Fernando Po (1861), Santos (1865), Damas cus (1869) and Trieste from 1871 until his death, Oct. 20, 1890 It was at Trieste that he made his celebrated translation of The Arabian Nights in 16 volumes

Burton-upon-Trent County borough of Staffordshire It stands on the Trent, 127 miles from London, and is served by the LMS Railway system, and the Trent and Mersey Canal The chief industry is brewing and here are breweries belonging to the great firms of Bass, Allsopp Worthington and others The industry has been carried on here over 300 years, chiefly because the water is peculiarly suitable. There are other industries, including engineering works. The river is remarkable for a fine bridge which leads into Derbyshire. Pop. (1931) 49,485

Bury County borough of Lancashire It is on the Irwell, 196 miles from London and 9 miles from Manchester, by the LMS Railway Bury is one of the centres of the cotton industry, other manufactures are paper and machinery

Bury Football Club won the Association Cup in 1900 and 1903 Pop (1931), 56,086 Pop (1931), 56,086

Bury John Bagnell British historian Born Oct 16, 1861, at Clogher, the son of a clergyman he was educated at Trinity College, Dublin, where in 1893 he was elected professor of modern history in 1898 he became also professor of Greek in 1902 he was appointed regius professor of modern history at Cambridge and these of modern history at Cambridge, and there he remained until his death, June 1, 1927 Bury's special field of study was the later Roman Empire, and his best works are his History of the Later Roman Empire, 1889, History of the Later Roman Empire, 1889, and his edition of Gibbon's Decline and Fall He also wrote a History of Greece and a History

London, and is served by the LNE Rly The church of S James is the cathedral of the diocese of S Edmondsbury and Ipswich the great abbev that once stood here only the tower and gateway remain Part of the grounds form a park Bury is an agricultural centre and is the capital of West Suffolk Pop (1931) 16,708

Bushey Urban district of Hertford-it adjoins Watford, and is 16 m. from London, on the L.M.S

Rlv Pop (1931) 11,243

Bushey Park Park in Middlesex 14 m from London, near the Thames and adjacent to Hampton Court The park, which covers 1100 acres is crown property. In it is the National Physical Laboratory, and it is famous for its avenue of limes and horse chestnuts

Bushire Seaport of Persia It is on the northern shore of the Persian Gulf, and does a considerable trade with Arabia, India, and Java The principal exports are opium, gum, carpets, hides and skins, horses. tobacco, etc., and the principal imports cotton and woollen goods, tea, coffee, spices and metal. The climate is unhealthy There is a

good harbour Pop about 18,000

Bushmen Remnants of the aboriginal race of South Africa Confined virtually to the Kalahari Desert they are vellow-skinned and of low stature. They are nomads, without social or religious institutions, but they are not unintelligent, and in their rock pictures show considerable artistic skill

Bushranger Australian bandit remoter settlements until late in the 19th century They operated in large gangs, of which the most celebrated was that of the Kelly brothers, who terrorised districts of New South Wales and Victoria as late as 1880

Business Word meaning much the In English law certain statutes make it illegal to carry on certain businesses, such as pawn-broking and moneylending, without licence or

registration

By law it is necessary for all persons who trade in names that are not their own to register such names at Somerset House, These names must be shown on the London

firm's note-paper

Business day is a term used in the Bills of Exchange Act, 1882 Every day is a business day except Sunday, Christmas day, Good Fridays and days set apart as public holidays under the Book Helidays and 1858 under the Bank Holidays Act, 1878, and days appointed by royal proclamation as days of fast or thanksgiving

BUSINESS AS A CAREER The first necessity for success in business is what is known as a "business sense" This implies business sense" This implies acumen, initiative, balance, firmness and selfrellance, and, added to these, experience and knowledge of the world

In the industrial world there are many important and remunerative positions such as that of Company Secretary, and those aiming at any such responsible post in commerce should be equipped with a definite profes-sional qualification such as Fellowship of the Incorporated Secretaries Association or the Chartered Institute of Secretaries

Particulars of the examinations may be obtained from the office of the Association,

Secretaries House, 21 Bedford Square, London, Secretaries House, 21 Bediord Square, hondon, W C 1, in the first case, and from the Institute, 59a London Wall, London, E C in the second The salary of the secretary of a company ranges between £500 and £2000 or more, according to the size of the company and the executive responsibility required

A Cost Accountant's position is comparatively a recent development, and the demand for qualified and experienced men is great Professional status is obtained through the Examinations of the Institute of Cost and Works Accountants, 6 Duke Street, London,

sw

Industrial Management is a profession which Industrial Management is a profession which has been created by the divorce of ownership and management. Many of the larger concerns to-day are owned by a limited liability company with many shareholders instead of by an individual, and the need for a "professional" manager is therefore created. To obtain this post technical knowledge of the details of manager of the particular. of the details of manufacture of the particular product are essential, while a university training is helpful in certain cases Most firms undertake the training of their own candidates for managership, and advance ment lies through reprove ment lies through various assistant positions covering a large range of salaries The highest of the concern and the responsibilities attached, and frequently reach as much as £10,000 a year

In the commercial world Merchants and cokers hold an important position. They Brokers hold an important position They supply the manufacturer with his raw material and then buy his finished product A Merchant firm usually pays a junior £50 per annum on beginning. The maximum salary

it is possible to earn is very high

See also Salesmanship, Commercial, and

ACCOUNTINCY

Buskin Kind of boot. Greek and other peculiar sort of half-boots, laced to the leg, which were known as buskins Sometimes thick soles were added, so that the actor's height might seem to be greater

Bustard Large game bird found in Europe, Asia and Australia It is of the same family as the crane and the plover The chief species is the great bustard which may measure as much as 8 ft. from tip to tip of the wings and weigh over 30 lb This is the largest land bird in Europe Other species are the little bustard and the Australian bustard, sometimes called the turkey. Bustards feed on corn, vegetables and small animals The great bustard was common in England until the early part of the 19th century

Butane Term applied to two organic fin series of hydrocarbons Normal butane is present in petroleum, but can be prepared by the action of sodium amalgam upon othyl iodide Isobutane or trimethylmethane is prepared from butyl iodide by the action of nascent hydrogen.

Butcher Bird Name given to the This is a This is family of strong-beaked birds which have the curious habit of impaling their prey, which consists of small birds insects or animals, upon the thorns of bushes Several species occur in Europe, the largest being the great grey shrike (lanius excubitor), which is about the size of a thrush

Bute Island of Scotland. Part of the coast of Arryllshire and covers 47 sq m. The soil is fairly fertile and the climate exceptionally mild. The scenery is varied by lochs, but the highest point is under 1000 ft. Rothe say is the chief place

Bute Earl of Title borne since 1705 Bute Earl of Title borne since 1705 most famous holder was the 3rd earl Born May 25 1713, he became earl in 1723 Howas secretary of state in 1761 and prime min ister in 1762 but became unpopular and was forced to resign in 1763 He died March 10. 1792

Buteshire County of Scotland It consists of the islands of Bute and Arran and several smaller ones. Great and Little Cumbrae, Inchmarnoch and Pladda Its area is 218 sq m Pop (1931)

Butler Jeseph English philosopher and shire, May 18, 1692, he went to Orici College, Oxford, where he graduated and took orders in 1718 He was appointed preacher at the in 1718 He was appointed preacher at the Rolls Chapel, London prebendary of Salis bury and rector of Stanhope, Durham, bury and rector of Stanhope, Durham, and he become successively clerk of the closet to Queen Caroline (1733) Bishop of Bristol (1738), Dean of S Paul's (1740) and clerk of the closet to George II (1746) In 1748 he declined the Archbishopric of Canterbury, but three years later he accepted See of Durham which he held until his death, June 16, 1759 1752

By virtue of his great work. The Analogy of Religion, Natural and Reseated to the Course and Constitution of Nature. Butler ranks high

both as philospher and divine

Butler Josephine Elizabeth English social reformer Born on April 12, 1828, she was a zealous promoter of the higher education of women and of the Married Women's Property Act of 1882 Her name is chiefly associated with her leadership of the agitation for the repeal of the Contagious Diseases Acts, and her courageous attack on the evils of prostitution She died Deo 30,

Butler Lady English painter A Thompson she was born in Switzerland in 1850, and studied art in Rome In 1874 she made a reputation with a battle picture "The Roll Call." This was the first of several military scenes, including "Florest Etona" and "The Dawn of Waterloo" Engravings of these and others of her pictures became very popular In 1877 Miss Thompson married an Irish

soldier, who afterwards became Sir Butler (1838 1910) She died in 1933

Butler Samuel English author He was born at Strensham, Wor cestershire, in 1612 his father being a farmer there After some years as clerk to a justice of the peace, he entered the service, first of the Countess of Kent and then of Sir Samuel Luke, a colonel in the Parliamentary army At the Restoration he became secretary to the Lord President of Wales, and for a short time steward of Ludlow Castle In 1663 he published the first part of Hudibras, which, chiming with the anti-puritan sentiment of the moment obtained wide popularity Part II (1664), was even more successful A third part was even more successful A third part was published in 1678 Sept. 25, 1080, is given as the date of his death

Part of the Butler Samuel English author grandson of Samuel Butler, headmaster of Shrewsbury School and Bishop of Lichfield, he was born Dec 4, 1835 He went to Shrewsbury and Combides with the licentia. bury and Cambridge with the intention of taking orders, but developed opinions which made that impossible Instead he settled in New Zealand where he was so successful as a sheep farmer that he was able to retire and return to England In 1872 he published his first book Erewhon in which he satirised alike conventional religion and the Darwinian theory He renewed the attack on Darwinian in Life and Habit (1877), Evolution Old and New (1879), Unconscious Memory (1880) and Luck or Cunning (1886) He was also a fine, if creatic Homeric scholar, and in 1897 published The Authoress of the Odeyssey His later works include Erewhon Revisited (1901) and The Way of all Flesh He died June 18, 1902

Butt Dame Clara English vocalist Born in Sussex Feb 1, 1873 she studied at the Royal College of Music, London She first appeared on the concert platform in 1892, and from that time was one of the leading singers in the country In 1920 she was made a Dame of the Order of the British Empire In private life she was the wife of Kennerley Rumford, whom she married in 1900 She died in Jan 1936

Butter Article of food made from the fat of milk by churning Butter contains from 82 to 87 per cent of milk fat, about 13 per cent of water and small proportions of casein, milk sugar and mineral matter. The fat consists of stearine and other compounds of the fatty acids and the presence of butyric and caproic acids give the peculiar taste and smell In the ripening process of butter pure cultures of lactic acid forming bacteria are used. The colour of butter is affected by the food of the cow yielding the milk, but often annatto or other colouring matter is added

In Great Britain the inspectors of food must see that the butter offered for sale is unadulterated and persons selling butter which is not up to the standard can be fined. The importation of butter into Great Britain was not affected by the tariffs introduced in 1931 32

Butterfield William English archi-tect born in London Sopt. 7, 1824 He made bold use of red and English archiother coloured brick, and his buildings are quite distinctive They include, among Loudon churches, All Saints Margaret St. and S Alban s, Holborn, Keble College, part of Merton College and other buildings at Oxford and school buildings at Rugby and Oxenham He died Feb 23, 1900

Butterfly one of two great divisions of levidoplera the other being moths They are distinguished from moths chiefly by the shape of the posterior wings

and the characteristic club shaped antonnao whence they derive their scientific name, rhopalocera or club horns

There are six families nymphalidac cryct nuca, ly aenidae pieridae, papilionidae and hesperidae Of these nymphalidae are most nesperidae OI these nymphalidae are most numerous, comprising over 4000 species including such well known British butter-flies as the red admiral, the peacock the tortoise shell the purple emperor and the fritillaries To pieridae belong the common cabbage butterflies or garden whites The papilionidae, or swallow talls include the most beautiful forms The hesperiadae or skippors, so called from their peculiar jerky flight, differ considerably from other families, both in structure and habit

Buttermere Lake of Cumberland.

In the south of the Lake District, it is about 11 miles long There is a village of this name, 9 m from Keswick.

Buttermilk Dairy product After cream has been churned

Buttermilk cream has been churned into butter there remains a rich, slightly acid, liquor which is called buttermilk. It is used as a medicine because of its nourishing qualities and easy digestibility

Butterwort (pinguicula vulgaris) One plants found in the British Isles It belongs to the order lentibulariaccae, grows on wet ground and is stemless It consists of a number of fleshy leaves which exude a sticky surface that serves to capture small insects, while from the centre rises a tall stalk bearing a blue flower

Buttress In architecture a support various kinds of buttresses are employed in building to give strength to walls Each kind of architecture has its own style and this serves in great measure to identify the period of the building Flying Buttresses are graceful half arches thrown against the upper part of a vaulted structure to withstand the pressure of the roof arches

Butyric Acid (CH, CH, CH, COOH) butter fat and various vegetable fats and oils It is an oily liquid with a disagreeable smell and is readily soluble in water It is usually prepared by the fermentation of sugar or starch by means of putrefying cheese

Buxton Watering place, borough and market town of Derbyshire It stands on high ground, 22 m from Manchester and 164 from London, on the LMS Rly It is chiefly known for its waters, which are very suitable for rheumatism and kindred complaints The town has beautiful gardens, a pump room and baths Pop (1931) 15,353

Buxton Earl English politician Sydnot 25, 1853, and educated at Clifton and Trinity Colleges Cambridge In 1886, having been MP for Peterborough, 1883 85, he was cleeted MP for Poplar, and for 30 years was an active Liberal politician From 1892 95 he was under-secretary for the colonies, from 1906-10, postmaster general, and from 1910 11, president of the Board of Trade In 1914 he was made Governor-general of S Africa and a viscount On his retirement in 1920 he was made an earl His books include a Life of Louis Botha.

Buxton Sir Thomas Fowell English politician Born April 1, 1786, he went to Trinity College, Dublin, and then to the firm of brewers which became Truman, Henbury, Buxton & Co From 1818 to 1837 he was in Parliament as MP for Weymouth there and outside his main interests were in schemes for improving the condition of the people at home and abroad, including the abolition of the slave trade He died Feb 19, 1845

Buzzard Bird of prey, somewhat resembling an eagle, but smaller

Buzzard Bird of prov, somewhat resembling an eagle, but smaller and weaker There are about 20 species and they are found in most parts of the world, excluding Australasia, and Oceanna The

common buzzard is seen in Great Britain and frequently in other parts of Europe It is black or brown in colour, measures about 4 ft, feeds chiefly on mice and small snakes and lives in mountainous and woody districts Other varieties of buzzard are found in Africa, Asía and America In America the turkey buzzard, or turkey vulture, is called a buzzard.

Byfleet Town of Surrey It stands near the Wev, 8 m from Guildford and 21 from London, on the S Rly Its manor house was once a royal residence Pop 4200

Byland Abbey in Yorkshire (N.R.) It was founded in 1177 by Baron Monbray for the Cisterclans and existed until the Reformation In 1920 the ruins became the property of the nation, and restoration work was undertaken Byland is 18 m to the north of York

By-law Rule or law made by a corporation, council or company County, city and district councils have power under various Acts of Parliament, to make bylaws on matters affecting the areas for which they are responsible Railway companies and some other bodies possess the same power If a by-law is contrary to the law of the land it is invalid.

By18 Viscount. English soldier Julian Hedworth George Byng, a younger son of the Earl of Strafford, was born Sept. 11, 1862, and entered the army in 1883 A cavalry officer, he served under Kitchener in the Sudan and S Africa where he commanded the S Africa Light Horse Promotion came quickly, and in 1912 he was sent to Egypt as commander-in chief In Oct 1914, he went at the head of the 3rd cavalry division to Belgium, and early in 1915 was put in command of the cavalry corps Later he commanded the 9th corps in Gallipoli, the Canadian Corps on the western front and finally the Third Army He increased his reputation as a capable soldier by his generalship in the Battle of Cambrai in Nov, 1917, and took an active part in the final movements on the western front In 1915 Byng was knighted, and at the end of the war, being a full general, he was made a peer. From 1921-26 he was Governor General of Canada, being made a viscount on his retirement. In 1928, at a critical time, he was appointed head of the metropolitan police, and retired in Sept., 1931 He died June, 1935

By-product Something produced duction of something else The commercial value of so-called waste products was not recognised until comparatively late in industrial history. It may be said to date from the discovery of and dues by W. H. Perkin in 1856, which was the first intimation of the extraordinary richness of coal tar. Since then the utilisation of the waste of a principal product for the manufacture of by-products has progressed to a remarkable degree.

Though anilino dves were the discovery of an English chemist, it was German industrial chemists who perfected them and discovered that coal tar also yielded sweetening agents like saccharine and valuable therapeutic agents like antipyrin, phenacetin, salvarsan, etc Gas works and blast furnaces, in addition to producing coal tar, give ammonia as a byproduct Copper is extracted from burnt pyrites that are waste in the manufacture of sulphuric acid, glycoline is a by-product of

soap, and candle works and wool scouring yields the wool grease that is used for the manufacture of lanoline and certain lubricants

Byrd Richard Evelyn American expedition to the American expedition on yet another American in 1929 he flew over the south pole in 1933 he set out from Boston on yet another Antarctic expedition

Byrd William English composer Born in London about 1542, he studied music under Thomas Tallis In 1563 he became organist of Lincoln Cathedral, and in 1569 a member of the choir of the Chapel Royal He died July 4 1623 Byrd is chiefly remembered by his madrigals but he also wrote choral music which is used to day

Byron Lord English poet Born in London, Jan 12, 1788, George Gordon Byron was a son of John Byron, a sallor who was a grandson of the 4th Lord Byron He died young (1791), and left a daughter, Augusta, by his first wife and the future poet by his second a Gordon Byron's childhood was unhappy, partly owing to his mother's temper, partly to his lameness, and partly to the conditions under which the two lived After schooling in Aberdeen and Dulwich, he went to Harrow and Trinity College, Cambridge In spite of his infirmity he was something of an athlete, and to the succeeded his uncle in the title becoming the 6th baron and with his mother passed some time at Newstead the ancestral home

some time at Newstead the ancestral home
In 1807, after alteration and consideration,
Byron published Hours of Idleness Then
followed in 1809 the satires, English Bards
and Scotch Reviewers He made an extensive
tour in Europe, and in 1812 published the
first part of Childe Harold's Pilgrimage,
much of it his own adventures This made
him famous, and in less than a year seven
editions appeared In 1813 came The Bride
of Abydos and in 1814 The Corsair, while for
a time the poet was a figure in London society
He continued to write and travel, Childe
Harold was finished Manfred and later
Cain and Sardanapalus appeared His last
work, and perhaps his greatest, was the
unfinished Don Juan The Prisoner of Chillon
and the fine Hebrico Melodies are among his
minor pieces and he also wrote eight plays

and the line Horico Miclodies are among his minor pieces, and he also wrote eight plays

The poets last years were spent abroad, chiefly in Switzerland, Italy and Greece, and he saw much of Shelley In 1823 he set out to help the Greeks in their fight for independence, and on April 19, 1824, he died of fever at Missolonghi He was buried at Hucknall Torland near Newstead

In Jan, 1815, Byron married Anne Milbanke, who bore him a daughter, later the wife of the Earl of Lovelace The pair soon separated, leaving Byron to a succession of mistresses, of whom the most notable was the Italian countess, Teresa Gamba.

Byron left a large body of poetry, all strongly marked with his own strange individuality but it is a little difficult to find in it the justification for regarding him as the greatest poet of his age, as many of his contemporaries certainly did No other English poet, however, has ever been so lauded in foreign lands

Byron Lord English title The family of Byron had a long association with Nottinghamshire where Sir John Byron, on the dissolution of the monasteries, obtained the abbey of Newstead A later Sir John Byron, and several other Byrons, fought for Charles I in the civil war, and was made a baron in 1643 William, the 5th baron, was succeeded by his nephew, the poet and from him the title passed to a cousin, George It is still held by the Byrons, but Newstead has been sold The family seat is Thrumpton Hall, near Derby

Byzantium Ancient city on the Bos porus which formed the nucleus of Constantine's new capital of the Roman Empire On the death of Theodosius the Great in A D 395, the Roman Empire was divided between his sons, Arcadius and Honorius Arcadius took the eastern portion Asia Minor, hgypt, Thrace Moesia, Mace donia and Greece His capital was naturally Byzantium, hence the term Byzantine, by which the East Roman Empire is generally known

The Byzantine Empire lasted over a thousand years and after a long decline the last remnant of it vanished with the capture of Constantinople by the Turks in 1453 The more memorable names in the long list of Byzantine emperors are Justinian (o27 566), the famous legislator, Maurice (582 602), Heraclius (610 641), Leo, the Isaurian (716 741), Basil, the Macedonian (867 886) Isaac Commenus, the founder of a dynasty which ruled from 1057 to 1185, and Michael Pelacologus whose family retained the sceptre from 1261 until the end

The interval between Commoni and the Palacologi dynasties witnessed the remark

The interval between Comneni and the Palaeologi dynasties witnessed the remarkable usurpation of the Byzantine throne by Baldwin, Count of Flanders, an adventurer of the fourth crusade, who was succeeded by his nephew of the same name Baldwin and his nephew and successor of the same name, are known as the Latin emperors of the East, Buldwin II was expelled by Michael Palaeo logus The last emperor of the East, Constantine Palaeologus, after an heroic defence of the capital, perished during the victorious assualt of the Turks on the city in 1453

of the capital, perished during the victorious assault of the Turks on the city in 1453

The Byzantine Empire made rich contributions to art, especially in architecture and letters. Its art which is a blend of oriental with classic, reached its highest development in the reign of Justinian to which the celebrated church of S. Sophia belongs, but between the 10th and the 12th centuries there was another efficience hardly inferior. Byzantine literature is more remarkable for scholarship than originality. It has the merit of being the medium through which classical Greck literature has been preserved to modern times. The capture of Constantinople by the Turks, and the consequent flight of Byzantine scholars was the cause of the Renaissance or revival of learning, which changed the whole course of culture in Europe

AB (Fr cabriolet) Vehicle for public hire Originally a two wheeled gig with a hood, drawn by a horse it carrien two persons. It was introduced into Great Britain from Paris early in the 19th century. The twoin the 19th century wheeled hansom cab was designed

and patented in 1834 by Hansom, a Birmingham architect With the advent of the motor car early in the 20th century, the taxicab came into being, and only a small number of horsedrawn cabs are now in use. All cabs must be licensed, and in London all fares are regulated by a scale authorised by the Home Secretary

Cabal Name given to a body of men who work secretly and mainly for their It comes from the Hebrew word own ends own ends it comes from the Believ Word cabbala or kabbala, and was used in England because the chief ministers of Charles II (Clifford, Arlington, Buckingham Ashley and Lauderdale) made this word with the first letter of their five names

Cabbage Cultivated vegetable of the cruciferous order It is a native of Britain and other parts of Europe In S W England and Wales it grows wild, with leaves up to 2 ft high Cultivated since the 13th century for its anti-scorbutic properties, its varieties comprise borecale, Brussels sprouts, drumhead cabbage and savoy, cauliflower, sprouting broccoli, the turnip-rooted kohl-rabi, and red cabbage, grown for pickling

Cabbala System of medieval Jewish theosophy which influenced contemporary Christian thought Obviously Obviously affected by Gnosticism, it postulated a world of emanations from an inscrutable first cause, and used numbers to extract recondite mean-

ings from the Scriptures

Cabinet Council of ministers responsible for the government of a country The first English cabinet came into existence in the time of Charles II, but cabinets in the modern sense did not appear until about 1720 Usually the members belong to one political party—except when, as in 1915-22, and in 1931, a coalition of parties is formed—and that party must be able to rely on a majority of the House of Commons If this support ceases the Cabinet must resign The members are the heads of the departments of state, and each must be a member of one of the Houses of Parliament The Prime Minister selects them, with the approval of the King, and presides over their meetings, at which all important matters of state are discussed and decided The Cabinet, therefore, corresponds to a board of directors In theory it is a committee of the privy council

Cabinet government is also the rule in other parts of the British Empire, in France and other

countries

Cable Substantial linear appllance used for holding objects or transmitting signals, light or power For mooring ships, cables comprise twisted strands of hemp, coir or jute, wire hawsers, or iron chains of consecutive links, 12½ or 15 fathoms long, fastened together by joining shackles Towing and elevator cables are of hemp or wire Cables are made at Greenwich Wesleicher made at Greenwich, Woolwich and other parts of riverside London.

Electric cables, used in submarine telegraphy since 1851, comprise cores of one or more copper wires embedded in insulating materials serve also for the land transmission of electric light and power

As a measure the cable is 600 ft. long and 10

cables make a nautical mile

Cabot John Italian explorer a Born in Venetian citizen In 1486 he settled in England and was sent out by Henry VII on a voyage of discovery He made two voyages from Bristol across the Atlantic, and on the second landed on Greenland and learned something about the lands, then

unknown, of N America. He died in 1498
Cabot's son, Sebastian, went with his father
on one or both of his voyages, afterwards
serving the King of Spain. In 1547 he returned to England and became the head of the Merchant Venturers who sent out expeditions from Bristol, where he probably died in 1557 Cabot Strait, between Newfoundland and Cape Breton Isle, is named after him Cabot Tower, on Brandon Hill, Bristol, commemorates him and his sons

Ca' Canny or "Go Canny," is a Scotwarily, cautiously, or slow It is now a term used in industrial disputes, when to "canv" is to work slowly in order to call attention to the grievances of the workshop employees It was first used in a Glasgow dool; etyling in 1880 dock strike in 1889

Cachalot Toothed whale (Physician macrocephalus), also called the sperm whale It eats mostly squids and cuttle fish Sometimes as much as 50 ft. long, onefourth comprises the massive head, with a cavity filled with spermaceti The sperm oil from the blubber is the finest whale oil Ambergris, an intestinal secretion, usually appears affoat or cast ashore

Cactus Group of succellent, fleshy-leafless plants Almost all the thousand species are natives of tropical America. The prickly pear, the most important economically, has become widespread in the Canary Islands the Mediterranean basin and Palestine They grow in grotesque shapes and resemble Turk's caps, globes, hedgehogs and columns sometimes 50 ft high Many contain reserves of moisture which are utilised in deserts by man and beast

Cacus Mythical character He was a giant, son of Vulcan and lived on the Aventine Hill at Rome When Hercules carried off cattle from Gervon, in Spain, Cacus stole some of them and drove them to his cave The lowing of the animals betrayed him and he was slain by Hercules

Cadbury Name of an English family of chocolate manufacturers. The business dates from 1794, when it was started in Birmingham by a Somerset man, Richard Tapper Cadbury Under his grandsons, Richard (1835 99) and George (1839-1922), the business grew enormously, and a garden city called Bourneville was built for the works and workers In 1901 George Cadbury became chief proprietor of the Daily News, which was later amalgamated with the Daily Chronicle as the News Chronicle.

Cadd1s Fly Hairy winged insect be-longing to the truchoptera It lays its eggs in a jelly like mass on water weeds or ponds The larva (grub) lives in silk lined tubes made of wood, leaves, shell or other substance, which are open at the ends When the chrysalis stage approaches, the grub closes these ends with silk or stones, and rests Later the pupa emerges and walks in the water, on arrival at the surface it becomes a pericet insect. The larvae are used by anglers

Cade Jack English rebel An Irishman by birth and a soldier and adventurer by choice, Cade was a man of position in Kent in 1450 when the country was suffering from the bad government of Henry VI and his friends Calling himself Mortimer and Captain of Kent, he collected together the rebels and marched into London He was declared a truitor and killed near Heathfield, Sussex, while trying to escape, July 13, 1450

Cader Idris Mountain in Wales It is in Merionethshire and above Lake Tal y Lvn The summit, Pen y gader, is 2914 ft. high

Cadet Person who is training for a position in the navy, arm, or air force Originally it meant a younger son Cadets for the British navy are trained at Dartmouth and Greenwich, for the army at Woolwich and Sandhurst, and for the air force at Cranwell Cadets for the U.S.A army are trained at West Point

Most of the public schools have a cadet corps which trains the older boys on military lines Religious organisations such as the Boys' Brigade and Church Lads' Brigade, are also recognised as cadet corps In 1930 the British Government stopped the grant hitherto made to these corps, but under certain con ditions cadet units may be affiliated to local Territorial units for instruction and training

Cad1 Arabic title for a judge Cadis still officiate in Mohammedan countries A cadi is required to be of exemplary character and intelligence to be disinterested, accessible, learned in the Koran and in local custom and tradition

Cad1z City and scaport of Spain. It stands on a narrow tongue of land on the Bay of Cadiz, 95 m from Seville It has a fine harbour and is still a scaport and naval station There are two cathedrals an observatory, a watch tower museum, art gallery, etc, as well as public gardens and promenades, a botanical

garden and a bull ring

One of the oldest scaports in the world, Cadiz was founded by the Phoenicians and was rich and flourishing under the Romans who called it Gabes It declined until the discovery of America gave it a new lease of life, but later its prosperity waned owing to the loss of Spanish power in America Its wealth and position as spain's chief naval base attracted the atten-tion of English scamen In 1587 Drake burned some warships in its harbour in 1596 it was taken and plundered by an English force, in 1625 it was again attacked, but with less success Pop (1931) 75,675

Metallic element Cadimum white, malleable and due tile it enables fusible alloys of bismuth, tin Cadmium and lead, such as Rose's metal, to fuse at still lower temperatures, such a cudmium allov is Wood's metal Not found native, it constantly accompanies zinc blende, and is also derived and canal It is famous for its connection with from greenockite. A cadmium sulphide is William the Conqueror, who founded an abbey

prepared artificially as the artist's pigment cadmium yellow, and is used also for colouring soap and porcelain The lodide is employed in photography The symbol is Cd, and the atomic weight 1124 Its specific gravity is 8 6 It melts at 322°C, and boils at 778°C,

Cadmus Greek hero A son of Agenor, King of Phoenicia Cadmus went to find his sister Europa who had been carried away by Zeus He consulted the Delphic oracle which told him to follow a cow and build a city where the cow lay down There he killed a monster and sowed its teeth in the ground From the teeth armed men sprang up and, after most of them had been killed, Cadmus was able to build the city of Thebes

Cadogan Earl English title borne by the family of Cadogan William Cadogan (1675 1726), an Irishmen, served under Marlborough and William III. He was an M.P. 1705 16, and helped to crush the Jacobite rising in 1715 In 1716 he was made a baron and in 1718 an earl His brother Charles Cadogan (1801-1778) heaven the 2nd a baron and in 1713 an earl His brother Charles Cadogan (1691-1776), became the 2nd baron, but did not inherit the earldom He married the daughter of Sir Hans Sloane and thus the Cadogans inherited the Chelsea property which includes Sloane Street, Cadogan Square and the neighbourhood The 3rd baron was made an earl in 1800, Georga Henry Cadogan, the 5th earl (1840 1915), was a Conservative politician, being Lord Privy Seal, 1886 92 and Lord Lieutenant of Ireland, 1895 1902

Cadorna Luigi, Count. Italian soldier Born Sept 4, 1850, he entered the army in 1868. He saw service in 1870, when, under his father's leadership, the Italian forces entered the papal states. He subsequently became Chief of the General Staff (1914) In 1915 he was made Commander by Chief, and directed the Italian paparations are not the staff. directed the Italian operations against Austria In 1917, after Caporetto (a v), he was super seded He represented Italy on the Versailles council in 1918, and died Dec 21, 1928

Cadoxton Town of Glamorganshire. It GW Rly, and the junction of a branch line from Barry to Pontypridd It is a coal mining

Cadre Military term meaning the nucleus or skeleton of a regiment or other unit A cadre keeps the regiment in existence so that when need arises it can be raised to the required strength without new organisation

Caduceus Magic wand Twined with makes and surmounted by wings it was given by Apollo to Mercury, whose emblem as the messenger of the gods it became It could confer wealth and happiness and had power over sleeping and waking

Caedmon Anglo Saxon poet. Apparently by Hida Abbess of Whitby One day when looking after sheep or cattle he had a vision in which he was told to sing of the Creation in which he was told to sing of the Creation compilation of verses on Biblical subjects He died about 675 at Whitby The actual poems written by Caedmon are lost. The paraphrase said to be his work, which has been translated into English, was written by another hand

Caen City of France In Normandy, it is english Channel Ships can reach it by river and canal It is famous for its connection with

here, another being founded by his wife, Matilda Some fine churches still stand, including S

Etlenne, v here William was buried

The city has a university founded by Henry VI, when it was an English possession, while the town hall and law courts are noteworthy It is famous for the building stone found in the neighbourhood. Pop (1931) 57,528

Caerlaverock Village of Dumfries 6 m from Dumfries and is famous for its eastle Near the mouth of the Nidd and overlooking the Solway, this was long a seat of the Maxwells Edward I took it in 1300, and it is now a ruin Pop 800

Caerleon Urban district of Monmouthshire It is on the Usk, 2 m from Newport, on the U W Rlv. It was an important Roman city, and many Roman remains have been discovered Many of these are in the museum, which is a branch of the National Museum of Wales It is connected in legend with King Arthur Pop (1931) 2326

Caernarvon Borough and market town of Caernarvonshire, also the county town It stands on the Menai Strait 69 m from Chester and 247 m from London, on the LMS Rly The chief building is the magnificent castle built in the 13th century. The parish church is a fine old building. There are the remains of the town walls and some relics of a Roman settlement. The town has a small harbour. Pop. (1931) \$469

Caernarion Bay is part of the Irish Sea, between the counties of Anglesea and Carnaryon. It is 30 m across.

Caernarvonshire County of Wales the country, it is almost surrounded by the sea, except where it joins Denbighshire The Menais Strait separates it from Anglesen In it are the hignest mountains—the Snowdon Range—and some of the grandest scenery in Wales In the country is the peninsula of Lleyn where the climate is extraordinarily mild. The country covers 572 sq m

The chef town is Caernaryon; others are Bançor, Llandudno, Bethesla, Conway and Pwilheli The L MS and G W Rlys serve the county The rivers include the Conway and the Ogwen Caernaryonshire is famous for its slate quarries In 1930 the official spelling of the name of the county was altered from Carnaryonshire to the present form Pop (1931) 120,810

Caerphilly Market town and erban district of Glamorgan-shire, Wales seven m from Cardill on the GW Riv., formerly the Rhymnev Railway Near are extensive colleries and ironworks. Its chief interest lies in the ruins of the great castle supposed once to have been the finest in Wales. Pop (1931) 35,760

Caesar Famous Roman family It traced its origin to Imus son of Aeneas, and its most famous member was Julius Caesar Later it became a title used by the Roman emperors. From it come the words Laiser and tsar, or czar, both meaning emperor

Caesar Gaius Julius Roman statesman soldier and writer He was born July 12, 102 Bc, of influential parents, and became a soldier He served with the army in the East after which he became prominent in Home Ho filled several public offices and was consul in 50 Bc when with Pompey and Crassus he formed the first triumvirate Made governor of Gaul, he remained 10 years and

won his great military successes, conquering most of Gaul and twice invading Britain

Caesar's successes created enemies, one being Pompey, and, an attempt at pacification having failed, Caesar left Gaul and crossed the Rubicon into Italy This meant civil war. Again elected consul, he followed Pompey into Greece and crushed his army (48 B C) at Pharsalus During this expedition he was in Egypt, where he was the lover of Cleopatra Returning to Rome in triumph, Caesar was made dictator for 10 years and then for life As the result of a conspiracy, he was assassinated in the senate house at Rome on the ides (15th) of March, 44 B C

Like Napoleon, Caesar was not only a great soldier, but a great administrator. He carried out many reforms, including the revision of the calendar, and prepared the way for the great empire of his nephew, Augustus He was three times married, but left no lawful children. Of his writings only the Commentaries remain

Caesarea Two ancient cities of Pa'estine (1) Caesarea Sebaste 31 m N of Joppa, was a scaport built by Herod the Great in honour of Augustus About 13 B C. Peter and Paul went there (Acts x xx1, xxxiii) The modern village is called Kaisariyeh

(2) Caesarea Philippi is 95 m. N of Jerusalem It was built by Herod's son, Philip, in honour of Tiberias and himself, and visited by Christ (Mt xvi) The modern village is called Banias

Caesium Metallic element Its symbol is Cs, and atomic weight 132 8 Silver white, it bursts into flame when heated, melts at 80° F and is interesting as the first metal discovered by spectrum analysis, although it long defled separation from its salts It appears in mineral springs near Redruth, Cornwall, and in Central Europe, and is procurable from such a widespread mineral as lepidolite, associated with rubidium The most electropositive of metals, its power of displacing others in salt solutions is supreme

Caffeine Vegetable alkaloid (C.H., N.O. H.O) It is the active principle of coffee and ter, and is found in cocca and kola nut Coffee contains from 1 to 21 per cent, and tea 31 per cent. It stimulates heart action without subsequent depression

Cagliari Capital of Sardinia Situated on the S coast, it crowns a hill 290 ft high. The chief buildings are the cathedral and two towers There is a rock-cut Roman amphitheatre The city has a harbour, and is the commercial centre of the island Pop (1931) 101,378

Cagliostro Alessandro di Italian impostor Born at Palermo June 8, 1743, his real name was Giuseppe Balsamo, but later he took his other name and with it the title of count Educated in a monastery, he learned a little chemistry and travelled over a good part of Europe Ho posed as a physician and sold great quantities of his elixir of youth The founding of lodges of Fryptian freemasons was another of his mannimpostures. He was imprisoned for a share in the affair of the Diamond Necklace in 1787. Soon after his release he was arrestel at Rome The sentence of death was not carried out, but he died in prison Aug 23, 1795

Cahir Market town of Tipperary, Irish Free State. It stands on the Suir, 11 m from Clonmel, on the G.S. Rly, and has a castle. Pop 1700

Caraphas Joseph Jowish high priest under Tiberius, appointed by Jowish high priest the procurator, Valerius Gratus He took a leading part in the trial and condemnation of Jesus, and advised the Sanhedrin concerning His arrest

Caicos and Turks Islands Geographiin full Carcos and Turks Islands Geographically the SE prolongation of the Bahamas, they lie 100 m N of Haiti and 420 m NE of Jamaica, by which they are administered Of about 30 small cays aggregating 165½ sq m, eight are inhabited Grand Carcos 25 m long, is the largest and Grand Turk, 10 sq m, the seat of government. Sponge curing is the chief industry, salt, fish burtle and steal heavy are industry, salt, fish turtle and sisal hemp are exported Pop (1931) 5 300

Callary Joseph Pierre Marie French

Caıllaux March 30, 1863, he entered the public service and was for some years an inspector of finances In 1898 he was elected to the Chamber of Deputies He was Finance Minister, 1899 1902, 1906 08 and 1911 In 1911 12 he was Frime Minister, and in 1912 14 again Finance Minister Early in 1914 Caillaux was Early Minister attacked in Le Figaro by G Calmette, the result being the murder of the journalist by Madame Callaux Soon after war broke out Soon after war broke out Caillaux was made Paymaster to the army, and in 1918 he was arrested and was kept in prison until 1920 when he was charged before the Senate with treason. He was acquitted on the major charge, but sentenced to three years' imprisonment for dealing with the enemy. In 1925 26 he was again Finance Minister

Cain Eldest son of Adam and Eve He killed his brother Abel, and became a wanderer with a curse on him. He is said to have founded the first city and to have called it after his son Enoch

Caine Sir Thomas Henry Hall British novelist. Born at Runcorn, May 14, 1853, he was of Manx parentage and went to the island for his education. He became an the island for his education He became an architect and then a journalist in Liverpool Moving to London he was secretary to D G Rossetti in 1887 Caine's novel, The Deemster brought him famo This was followed by other books in which Manx life was portrayed The Bondman, 1890, The Scapegoal, 1891 and The Blanxman, 1894 Later came The Christian, 1897 The Elernal City, 1901 The Prodigal Son, 1904, The White Prophet, 1909, and The Alaster of Man 1921 Knighted in 1918, he published his Recollections of Rossetti in 1928, and died Aug 31 1931 His son, Gordon R Hall Caine, was elected MP for E Dorset in 1922 and 1931 Another son, Derwent Hall Caine, was Labour MP for the Everton division of Liverpool in 1929 31

Cairngorm Group of mountains in Scotland, part of the Grampian range They are on the border of the counties of Inverness and Banff Cairngorm itself is 4084 ft high and Cairntoul is 4241 ft. In 1929 it was suggested that the Cairngorms

should be made into a national park.

The mountains produce the stones called calingorms, which are also found in Arran as well as in the United States and Switzer land Their value depends on their colour

Cairns Town and scaport of Queensland It stands on Trinity Bay, about 890 m from Brisbane It has a good harbour with appliances for dealing with the sugar and timber that are shipped thence Thore is also

a cold storage plant. A railway goes to the mining district of Chilagoe Pop (1931) 10,500

Cairns Earl British lawyer Hugh McCalmont Cairns was born in Ireland in Dec 1819, and educated at Trinity College, Dublin He became an English bar rister in 1844 and MP for Belfast in 1852 He was Solicitor General (1858) and Attorney General (1866) in Conservative ministries before being made a peer in 1867 In 1868, and again from 1874 80, Cairns was Lord Chancellor In 1878 he was made an earl, and he died April 21, 1885

Cairn Terrier Small dog of the terrier breed It is a good house dog and also useful in sport. In colour it varies from grey to black or sandy or brindled The hair is wiry and the tail and legs short.

Capital of Egypt It stands on the Cairo right or east bank of the Nile 128 m from Alexandria, and 148 by rail from Port Said It is a tourist and commercial centre, the administrative and military headquarters of the country, and a railway and air station The city proper is divided into two parts the modern quarter, Ismailia and, nearer the river the native quarter Bulak to the north is the river harbour, to the south is Old Cairo Cairo is the largest city in Africa and has

a considerable European population Of the old buildings the citadel built by Saladin and the cathedral of S Mark may be mentioned The chief sights are the mosques, some of them remarkable specimens of Oriental architecture They include El Hakim, Amru, Hasan.

El Maayvad and Al Sunkur

Of modern buildings there are the museum of Egyptian antiquities with a priceless col-lection, the British consulate, the exchange, and lection, the British consulate, the exchange, and the central railway station The palace of Ismail, now a hotel, stands on the Gezirch, or island Some fine buildings have been erected for government purposes The university is in the rebuilt mosque of El Azhar The Nile bridge and the Eskelia gardens are notable. The city has a service of electric trams, a good areas a supply and a resecutive. There are water supply and a racecourse There are some native industries but Cairo is chiefly a commercial centre Pop 1.064 500

Caisson Chamber of sheet iron, timber or concrete, with watertight walls. It is used for laying foundations under water or in water bearing strata. It is sometimes bottomless, with cutting edges penetrating the soil, from which water is pumped out and the ground excavated by workmen under compressed air These men are liable to be affected by caisson disease. This is best circumvented by preparing for the immersion gradually, and leaving gradually

Caister Village of Norfolk It is 3 m from LNE Joint Rly There are ruins of a castle that once belonged to Sir John Falstaff and then to the Pastons

It must be distinguished from Calstor, a village 3 m from Norwich which was once a Roman camp Extensive Roman remains were unearthed here in 1930 31 Another Calstor which also was a Roman station, is in Lincoln shire, 8 m from Brigg Another Calstor,

Caithness County of Scotland In the extreme north-east of the country, it is three parts surrounded by the sea The land is fairly level except on the Sutherlandshire border where there are hills

of over 2000 ft, but owing to the bleak climate the soil is not very fertile. The fisheries are important. Wick is the county town, other places are Lybster and Thurso. The Thurso is the chief river. In the county are John o' Groats and Duncansby Head. It covers 690 sq in and is served by the LMS Rly. Pop. 1931, 25,656

The Earldom of Calthness has been held since 1355 by the family of Sinclair The 14th earl was made a baror of the U K in 1866 The 18th earl took the surname of Buchan

Caius John English physician Born at Norwich, Oct 6, 1510, he was educated at Gonville Hall, Cambridge, which in 1557 he refounded, making it Gonville and Caius College He left his property to the college when he died, July 29, 1573 Caius is pronounced Keys

Cajeput (Melaleuca leucadendron) Evernative of Celebes and other parts of the E Indies, it bears spikes of odouless flowers and aromatic, lance shaped leaves, from which distils a pungent volatile green oil smelling like camphor, a closely allied by drocarbon This is used for rubbing painful joints, the spirit is prescribed for severe colic

Calabar Town of Nigeria Situated on the Calabar River, 5 m above its estuary in the Gulf of Biafra, it is the capital of the Calabar province Its harbour has repairing shops, and exports palm kernels, oil, rubber and ivory New Calabar is a modern port 100 m to the westward

Calabash (Crescentia cujete) Evergreen tree of the order Bignoniaceae. It is found in W Africa, the W Indies, and tropical America The globular gourdlike fruit has a hard rind, or shell, which is made into water bottles, cups, bowls, tobaccopipes, etc

Calabria Southernmost province of Italy Separated from Sicily by the Strait of Messina, it occupies 5819 sq m The coastal strips produce olives, wheat, rice, cotton, tobacco and fruits Marble, graphite and metallic ores are quarried. Settled by early Greek colonists, Calabria became Roman in the 3rd century BC

Calais Seaport of France It stands on the town and 185 from Paris, and is the chief port for traffic between England and France In addition to the shipping, the town is a fishing centre and famous for its lace manufacture The old town is on an island The chief buildings are the old hotel de ville, the church of Notro Dame and the new hotel de ville in S Picre de Calais, a suburb Calais belonged to England 1317-1558 Pop (1931) 70,213

Calamander (Diospyros hirsuta)
tree, native to Cevlon The colour is a beautiful
brown, shaded with black and soft fawn It is
used in fine cabinet making

Calamine Name denoting, in Britain the important mineral called zinc spar This zinc carbonate comes from the Mendips and Pennines, the Vieille Montagne mines in Belgium, from Spain and Missouri In America the name denotes hemimorphite, a mineral of similar appearance, which is actually a hydrated zinc silicate

Calceolaria Genus of herbs and shrubs of the snapdragon order

They are native on the Pacific coast of S America Several species have been developed in Britain Some present by hybridisation showy blooms with enothnous pouched lips Bedding sorts are propagated by cuttings

Calchas Greek priest He professed to have powers of divination given by Apollo Accompanying the Greeks to the Trojan war, he foretold the war's length, and declared that only the seenfice of Iphigenia in Aulis and the restoration of Chivesis to her father could enable the Greek fleet to sail and the plague to cease in the army He died of grief on finding Mopsus his superior in divination

Calcination Expulsion from a substance of its volatile constituents by burning Thus limestone or chalk is reduced to lime by calcination, the combined carbonic acid being expelled Calcining furnaces are used for reasting zinc blende, copper pyrites, tin ore and some Swedish iron ores The term nowadays applies also to the burning of waste matters to incombustible asn

Calcite Native carbonate of lime It is a white or colourless vitreous mineral which can be scratched with a knife, and crystallises in many diverse forms, notably the double retracting prisms of Iceland spar used in polariscopes

Calcium Metallic element Its symbol is Yellowish-white, lustrous and ductile, it is easily cut Although not found native, it is more abundant in the earth's crust than any metal except aluminium, entering into the composition of all limestones, marbles, corals and molluscous shells Its sulphate forms gypsum, its phosphate is the main earthy constitutent of animal bones and phosphatic manures Combined with carbon it yields the carbide which generates acetylene, with nitrogen it forms artificial fertilisers

Calculus Inorganic concretion round a central core formed in any part of the body Such formations, when made by the urine, cause stone in the kidneys or bladder, when in the gall-bladder they are gall stones Under gouty conditions they are found at the joints

Calcutta City and seaport of India, capital of Bengal and once capital of the country. It stands on the left bank of the Hoogli, 90 m from the sea, and covers 12 sq m. On the right bank is Howrah, an industrial area. There are a residential quarter for Europeans and a native city Garden Beach is a suburb to the south

The centre of the city is the Maidan, a large open space, where are the chief public buildings including Government House, the town hall, S Paul's Cathedral and the law courts On one side is the fort, rebuilt in 1773, with its six gates Other buildings include the Roman Catholic cathedral, the imperial and economic museums, the Victoria memorial hall and the mint There are many temples and mosques, including the magnificent Jain temple called Badri Das The city has a university and botanical gardens

Calcutta is a manufacturing centre with jute, rice and cotton mills, as well as native workers in brass and pottery. It is a commercial centre with banks and markets, and through it a great amount of India's 'rade passes. It is served by several lines of railway and has

spacious docks. the finest of these is the King i George dock, opened in 1929 The city was founded as an E India Co settlement in 1690. and was first called Fort Wills including Howrah 1,485,582 (1931) William

The Calcutta Sweepstake is so called because it is arranged by the Turf Club of Calcutta
The Calcutta Cup is a trophy given to the
victor in the annual Rugby football match
between England and Scotland

Calder River of England It rises near Burpley and flows into York sulre to join the Aire near Castleford Its ength is 45 m, and with the Aire it forms the important Aire and Calder navigation system

Calder Sir Robert. British sailor Born at Elgin, July 2, 1745 he entered the navy in 1759 He won his reputation at the battle of St Vincent (1797) being then knighted In 1804 he blockaded the Spanish port of Fernol and watched for the return of the Franco Spanish fleet, which he met and damaged off Cape Finistère He was court watched for the return of the properties of the spanish fleet, which he met and damaged off Cape Finistère He was court watched for yet following up his spacess and martialled for not following up his success, and retired, dying Aug 31, 1818

Calderon Pedro Spanish poet, in full in Madrid Jan 17 1600, he was educated at Salamanca After ten years' soldiering in the Salamanca After ten veurs soldering in the Netherlands, he was made superintendent of amusements to King Philip IV In 1650 he joined the Franciscan order and became a priest, but he remained at court until his death, March 25, 1681 Beginning in 1636, Calderon wrote about 120 plays and 70 religious pieces (cantos sacramentales)

Philip Hermogenes British Calderon at Politiers artist. Born May 3, 1833 his parents were Spanish but he passed most of his life in England and became a British subject. In 1864 he was became a British subject In 1864 he was elected A R A , and in 1867 R A He was keeper of the Academy from 1887 until his death, April 30, 1898 Amone his most im portant works are 'The Gaoler's Daughter', 'Broken Vows' Her Most High, Noble and 'The Renunciation' now in the Tato Cultury Levelsen

Gallery, London

Caldey sline It is 3 m from Tonby and is about is a m in extent. On it is a modern abbey, now a Cistercian house It was founded by Benedictines, who left the island in 1928 Then the Cistercians took their place The island has a lighthouse

Caleb Biblical character A son of Jephunneh, he was sent by Moses as Joshua's companion to spy out the land of Canaan Hebron was given to him (Num till tiv, Deut i, Josh 11)

Caledon Town of Cape Province, S berg, 87 m from Capetown by railway It has mineral springs and is a trading centre Pop 3750

Caledonia Roman name for north Britain First used for the district north of the Forth and Clyde it is now

used for Scotland as a whole

The Caledonian Canal is the greatest water
way in Scotland It extends from the Moray
Firth on the east to Loch Linnhe on the west.
It is 60 m long Lochs Ness, Oich, Lochy,
and Dochfour were used for its course. The canal can be used by steamers up to 600 tons It was made between 1803 and 1822

Caledonian Market London Situated in Caledonian Road, Islington, it is primarily a cattle market and is owned by the corporation of the City of London The buildings and vards cover about 50 acros The market was opened in 1855 The L.M.S and L.N.F. Rivs serve it and there are abattoirs and accommodation for a vast number of cattle Monday and Thursday are market days, on Tuesday and Friday a market for household and miscellaneous articles is held

Calendar Systematic division of the year into months and days. Assuming a 365t day year, Julius Caesar introduced the Julian calendar in 45 BC, distributing 366 days as at present, and inserting an additional day every fourth year. The solar year is actually short of this by 11th pulputes. In 1582 therefore the Old Strice minutes, in 1582, therefore, the Old Style was ten days out Gregory XIII then suppressed the surplus days and ordained that no closing year of a century should be bis sextile unless divisible by 400. Thus 1900 was not a leap year This Gregorian or New Style was adopted by Great Britain in 1752

was adopted by Great Britain in 1752
Other calendars are the one introduced during the French Revolution and one introduced in 1929 into Russia. The former divided the year into 12 months of 30 days each with five days for holidays Each month was divided into three weeks of ten days each In Russia the week consists of five days and the month of the greater also giving five days. the month of six weeks, also giving five days

as holidays

Calender Machine comprising cylin operating like the domestic mangle. It is used for expressing moisture and imparting a smooth finish to paper or textile fabrics, sometimes utilising heat inside the cylinders Some cotton goods demand a superficial glaze the moire effect of watered silk, or a silken sheen Sheet rubber also is calendered

Calends, or Kalends In the calendar the first day of the month It co-incided with the new moon and was announced by the Pontifex Maximus In the Greek calendar there were no calends, so the term "Greek calends" was used in the sense of never

Calgary City of Alberta, Canada. It stands at the union of the Rivers Bow and Elbow, and is an important station on both the CPR and CNR. Rlys being 840 m. from Winnipeg in one direction, and 760 from Vancouver in the other It is and to for the agricultural produce of a vast district and for the mining area of the neighbouring Rocky mts The industries include railway shops Pop (1931) 85 761

Diameter of a firearm barrel. Calibre Calibre English speaking practice expresses small arms callbres in decimal parts of an inch, thus the British military rifle barrel callbre since 1888 has been 303 in In metric using countries the callbre is ex pressed in millimetres

Plain white cotton cloth It is so named after Calicut In 1640 Calico called was listed with linen and described as calico lawn In 1773 it was made with linen warp and there was a dispute between tax collectors and payers as to whether calico was linen or cotton

alicut Scaport on the Malabar coast, N of Beypur, it was greatly enlarged by the 7th century Arabian immigration of the Moplas It was the first spot in India visited by Europeans, being discovered by Pedio de Covilhao in 1487, and Vasco da Gama in 1498 Destroyed by Tippu in 1789, it was recaptured and ceded to Britain in 1792 There are coir pressing, coffee cleaning and timber outling industries Pop 82,000

California Western state of the United States It has a coast line of about 1000 m on the Pacific Ocean, and covers 158,300 sq m. It is famous for its Western state of the United covers 155,500 sq. III. It is failed for the climate, scenery and products. Here are the highest mountains in the country ilsing in Mt. Whitney to 14,500 ft, the Yosemite valley and other beautiful regions. Fruit is grown on an enormous scale, wheat, barley and maize are also raised Gold, silver and other minerals are mined and the production of petroleum is vast. The fisheries are another source of wealth Sacramento is the capital, but Los Angeles, San Francisco and Oakland are much larger

California was part of Mexico until 1846, when it was taken by the USA. It became a state in 1850, and sends 2 scnators and 20 representatives to Congress Pop (1930)

5,677,251

Lover California is a province of Mexico It covers about 5800 sq m and La Paz is the capital It is separated from the mainland of Mexico by the Gulf of California

Californian Poppy (Eschscholland californian) Perennial herb of the poppy order from the Californian coast Cultivated in Great the Californian coast Cultivated in Great Britain as an annual, this delicate plant has finely out leaves and bright yellow, saffron-eyed four-petalled blooms

Caligula Gaius Caesar Roman emperor Born at Antium, his parents being Germanicus and the elder Agrippina, he spent his boyhood in his father's camp, wearing the army boots (caligae), which gave him his nickname Adopted by Tiberius as co-heir with his grandson, he succeeded to the throne in  $\Delta D$  37. After an illness he developed a megalomania which led to an orgy of cruelty and debauchery. He was killed by a tribune in AD 41

Calipers Metal instrument for measuring diameters Usually resembling compasses with legs bent inward for external or ontward for internal measurement, it may have serew and spring adjustments, quadrants with pointers for self-registration, and micro

with pointers for self-registration, and micro meter or vernier fittings

Caliph Title applied first to Mahomet's successor Abn Bekr, as head of the Islamic state and defender of the faith, AD 6.2 After him came four Medina caliphs, 13 Ominiads at Damascus, 661-750, and 37 Abbasids at Bagdad, 750-1258 Meanwhile, Ominiad rulers in Spain, 755 1031, and Fatimide rulers in Egypt 909-1171, called themselves caliphs The title passed to Turkey in 1362 if not before, and was retained by its sultans until 1922 In 1924 it was abolished by the national assembly at Angora (Ankara) the national assembly at Angora (Ankara)

Calisthenics Physical exercises de signed and practised to give grace and strength to the body. The term is usually employed to describe systems of physical culture for girls and women.

Calixtines Name of a religious sect in Bohemia. They were followers of John Hus who demanded that

followers of John Hus who demanded that the laity should receive the cup as well as the

bread of the Holy Communion The Calixtines died out in the 17th century

Calixtus Name of three popes Calixtus I. was a slave who was condemned to work in the mines of Sardinia, later he was released and was given charge of a he was released and was given charge of a Christian cemetery in Rome In 218 he became pope and in 223 was martyred He was canonised and his festival is kept on Oct 14 Calixtus II, pope from 1119 to 1124, gained a victory over the Emperor Henry V, and by the concordat of Worms ended the investiture

controversy

Calixtus III., a member of the Borgia family, was pope from 1455 to 1458 Another Calixtus III was an anti-pope elected in 1168 to oppose Alexander III

Callander Burgh and market town of Teith, it is 16 m from Stirling, on the river Rly Near the Trossachs it is in the midst of Perthshire beautiful scenery Pop (1931) 1572

Seaport of Peru It is 6 m from Lima and has good facilities for shipping The buildings include churches and the custom house The old city was destroyed by an earthquake in 1746 A new one was built on a site near Through the poit, nitrate, guano, silver and other products pass Pop (1931) 70,111

District in Lewis, Outer Habrides Scotland Here, Callernish District in Lewis, Hebrides, Scotland about 13 m W. of Stornovay, is a neolithic stone circle A central 17-ft pillar is sur-rounded by twelve unhewn monoliths in a circle 42 ft across A stone avenue extends N, and single rows L, S and W, the whole delineating a cross 381 ft by 123 ft

Callimachus Greek poet and critic poened a school at Alexandria Ptolemy Philadelphus entrusted the Alexandrian library to him, his catalogue, in 120 volumes, was prefatory to all Greek literary criticism. Six hymns, 64 epigrams and some fragments are extant. He died 240 B C.

Calliope Muse of epic poetry Calliope was the mother of Orpheus by Apollo In art she is represented with wax tablets and a stilus

Caine Borough and market town of Wiltshire It is 6 m from Chippenham and 871 from London, on the GW Rly The little River Marlan flows through it The chief buildings are S Mary's church, the town hall and the grammer school Bacon is cured here Pop (1931) 3463

Calomel Subchloride of mercury (Hg. Cl.) It is the whitish-grey mineral horn quicksilver and forms four sided It is found native in Spain, Bavaria and Czechoslovakia, and is usually propared artificially as a white, odourless powder insoluble in water The most widely used of mercurial preparations, it should be carefully distinguished the control of the control di-tinguished from the perchloride or corrosive sublimate Calomel is prescribed as a purgative in 2 5 gr doses, or for absorption into the skin by vaporisation under a blanket covering

Calorescence Luminous phenomenon involving the conversion of heat rays into light rays. The non-luminous rays from the electric arc comprising nine tenths of the whole, are brought to a focus by means of a lens or mirror The light rays are absorbed by an iodine solution, and the concentrated heat rays display themselves to

the eye by making charcoal incandescent and if harsh was logical and which has exercised bursting black paper into flame an enormous influence in Europe and America.

Calorie Metric unit of heat The large raise the temperature of a kilogram of water through 1°C The small calorie measures on a gram, 1000 small calories equal one large calorie A large calorie equals four (3 968) British thermal units

Calorimeter Apparatus for determin heat liberated or absorbed by physical or chemical processes Since Black's 18th century ice calorimeter many complex instruments have appeared, including Favre and Silber mann's mercury Dewars hydrogen and Berthelot's heat of-combustion bomb Respiration calorimeters for measuring the heat evolved by living beings and throttling calorimeters for ascertaining steam moisture have also been invented

Calpurnia Wife of Julius Caesar purnius Piso she married Caesar whose first wife was Cinna s daughter Cornella, in 59 B c

Calshot District of Hampshire It is on the coast just where Southamp ton Water joins the Solent Here are the ruins of a castle built by Henry VIII Since 1912 it has been a seaplane station

Calton Hill Hill of Edinburgh It is the city from the east. On it are some memorials including one of the Great War an observatory and a prison

Calumet Pipe of peace The North American Indians had tobacco pipes about two feet long, which they handed to strangers A refusal to puff it was regarded as an act of war

Calvary

Place where Christ was crucified
it is traditionally identified with
a spot beneath the Calvary chapel in the 5th
century church of the Holy Sepulchre Repro
sentations of the Passion erected in Roman
Catholic countries on wayside prominences or
in churchyards are called calvaries

Calverley A son of Rev H Blavds he was barn Dec 22 1831, and took the name of Calverley He went to Harrow and then to Oxford and Cambridge At Cambridge he proved himself a fine scholar, a fact evidenced by his translation of Theocritus Calverley is chiefly known for his unrivalled paradles Full of exquisite humour and wit are his Perses and Translations, 1862, and Fly Leaves, 1872 He died at Folkestone, Feb 17, 1884

Calvin John French theologian Born at Noyon July 10 1509, he was educated for the priesthood in Paris and then for the law at Orleans There about 1532 he became a Protestant and lived for a time in Paris and Basel In 1536 he settled in Geneva, where he became very active as a moral reformer, and in 1538 was banished He went to Strasbourg but in 1541 was recalled to Congregation.

to Geneva where he died May 27, 1564
For thirteen years Calvin was the autocrat
of Geneva. He aimed at making it a place
where righteousness was paramount and those
who transgressed, either in creed or conduct,
were punished, one Servetus, a unitarian
being burned On the other hand Calvin im
proved the city in many ways
Trade was
fostered and education encouraged

Calvin gave the Protestants a creed which,

if harsh was logical and which has exercised an enormous influence in Europe and America. His great work is the *Institute of the Christian* Religion written in Latin in 1536, and trans lated into English

Calvinism by John Calvin in the 16th century its central idea is the doctrine of predestination which comes from the belief that everything that happens is due to the will of God it accepts the idea of eternal salvation for some and eternal dampation for others

Calvinism was very strong among the Protestants until the 19th century and is set forth in the confessions of the various reformed churches and in part in the 39 articles of the Church of England The Hugne nots accepted it and it obtained a firm footing in Scotland and the Netherlands The Puritans, both in England and America, were Calvinists

Calydon Ancient Greek city in Aetolia the River Euceus 7 m from the Calydonian Gulf it was the marshland region in which Byron met his death from fever Here occurred Mcleager's fabled hunt for the Calydonian boar which had been sent by Artemis to ravage the fields Ruined ramparts about 2 m in circuit and a temple to Artemis remain

Calypso In Greek mythology a nymph She was a daughter of Atlas and inhabited the island of Ogygla When Odysseus was shipwrecked on her shores she promised him eternal youth if he would remain After seven years of dalliance he longed for home and Zeus bade her release him On his departure she died of grief

Calyx Botanically, the external set of floral leaves, or sepals These may be free, as in the buttercup the calyx being then polysepalous If more or less united into a tube, as in the primrose, the calyx is gamo sepalous the tube having its margin entire, toothed cleft or lobed The calyx leaves, usually green are sometimes coloured or petaloid as in the anemone, which has no petals

Cam
River of Cambridgeshire It flows through the country for 40 m until it falls into the Ouse just below Ely and it is navigable as far as Cambridge the chief town on its banks Its old name is the Granta.

Cam Device for converting the whole or part of a machine's regular rotation into irregular, intermittent or reciprocating, motion Eccentric cams necessarily have the centre of rotation outside the centre of the figure Such wheels, lobe shaped or otherwise impart motion to others by genred or rolling contact Sometimes cams contrive slow thrusts and quick returns as in some machine tools Heart cams may impart regular up and down motion, as in cotton spindles Cams are essential for the complex operations of sewing machines and printing presses

Camalodunum Roman town in Eng Colchester now stands and was one of the largest Roman settlements in the country Before the Romans took it in 48 it was the chief town of the Trinobantes Boadleen captured it in AD 62 Remains of many Roman bulldings have been unearthed.

Camberley 7 illage of Surrey It is from London on the S Rly The chief building is the military staff college built in 1868

Camberwell Borough of London It the river and includes Dulwich and Peckham It has several stations on the Southern Rly Camberwell Green is a great road junction Pop (1931) 251,373

Cambodia French protectorate in Indo-Cambodia China With 200 m of coast line, it is bounded N W by Siam, and elsewhere by other French colonies and protectorates It is centrally a flat plain traversed by the Mekong, an inland lake, Tonle Sap, 770 sq m in extent, supports a large fishing population The native king resides at the capital, Pnom-Penh Of the population threepopulation The Interior and Capital, Pnom-Penh Of the population three-fifths are Khmers, the remainder Annamese, Chinese, Chams and Malays Rice, cotton, Chinese, Chams and Malays Rice, cotto cattle timber and gums are produced I area is 67,550 sq m Pop (1931) 2,80,000

Cambon Pièrre Paul French statesman Born, Jan 20, 1843, he became was in succession minister in Tunis, 1882-86, ambassador at Madrid, 1886-90, and ambassador at Constantinople, 1890-98 In 1898 he became French ambassador in London and here he remained for 22 years, He retired in

1920 and died May 29, 1924
Cambon's brother, Jules Martin Cambon,
born April 5, 1845, had also a long career in the public service From 1901-07 he was governor general of Algeria, from 1897-1902 ambassador at Washington, from 1902-07 ambassador at Madrid From 1907 to 1914 he was French Ambassador in Port of 1914 he was French Ambassador in Berlin He died

in 1935

Camborne Market town and urban is 3 m from Redruth and 2674 from London urban on the GW Rly It is the centre of the Cornish mining industry and has a school of mines Pop (1931) 14 157

Cambrai City of France It stands on the Schelde 37 m from Lille, is an important railway junction and is served by a canal The chief buildings are the hotel de ville on the Place d'Armes, the modern cathedral, the citadel and the belfry One of the old gates still stands The buildings was much despend during the Creek Willey were much damaged during the Great War Textiles are made and the place gives its name to cambric

Cambrai has a notable history, especially before 1678 when it became part of France Its hishop was one of the most powerful in the Netherlands Here in 1508 the pope and many European princes made a league to humiliate

Venice

pnice Pop 28,542 During the Great During the Great War two battles were called after Cambrai On Nov 20, 1917, the British army under Sir Julian Byng, helped by a strong force of tanks, broke through the German lines near Cambrai and took many prisoners and guns The advance lasted until the 27th, when the battle ended

The second battle of Cambrai, fought between Sept 27 and Oct 5, 1918, was an assault on the Hindenburg line and part of the great offensive that ended the war

Cambria Latin name for Wales The mountain system which runs from the Black Mountains in Brecknockshire to Snowdon and the adjoining area is called the Cambrian the Cambrian A system of rocks found in Wales and in other parts of Great Britain and of Europe is known as the Cambrian System The Cambrian Rlv, which served the greater part of Wales, is now part of the GW line

Cambridge Borough and market town of Cambridgeshire, also the county town and a university centre. It stands on the Cam 56 m from London, on the LNE Rly Apart from the university it is an agricultural centre. The buildings, it is an agricultural centre. The buildings, in addition to the colleges and those belonging to the university as a whole, include several churches, notably Great S Mary's, the university church S Benet's, the round church of the Holy Sepulchre and the shire hall The chief schools are the Levs and the Perse grammar school Pop (1931) 66.803

of Man Cambridge City of Massachusetts, Charles River, adjacent to Boston Cambridge is chiefly known as the seat of Harvard University which has its buildings here, including an observatory and a botanic garden. Here are the Massachusetts Institute of Technology and several colleges and schools The city has some industries and is a printing and publishing centre Pop (1930) 113,643

Cambridge University. One of the great English universities It consists of 17 colleges and two halls The colleges are Christ's, Clare, Corpus Christi, Downing. Emmanuel Gonville and Caius, Jesus, King's, Magdalene, Pembroke, Queens', S. Catherine's, S. John's, S. Peter s or Peterhouse, Sidney Sussex, Trinity and Trinity Hall Peterhouse founded in 1284 is the oldest. The halls are Fitzwilliam and Selwyn Girton and Newnham colleges for women, though not part of the university, work in association with it There are also theological colleges not connected officially with the university The colleges are self-governing

Other buildings belong to the university as a whole, these including the library, one of the finest in the world, the senate house and the Fitzwilliam museum enlarged in 1930-31 The university has also many laboratories and schools for science teaching, an observatory

and a botanic garden

The university has some 5000 undergraduates and a large staff of professors and lecturers Its head is the chancellor, its acting head the vice-chancellor. Its income apart from that of the colleges is over £200,000 a vear It gives degrees in all subjects of ordinary study, especially classics and mathematics Many eminent men have been educated at Cambridge, they include Burghley, Cromwell, Pitt, Bacon, Newton, Darwin, Milton, Words-worth and Tennyson The university is a famous sporting centre and many of the greatest English athletes have passed through it The Cambridge University Press, sometimes called the Pitt Press is associated with the university It has printing works in Cambridge and an office in Fetter Lane, London, E.C. The university sends two members to Parliament

Cambridge Duke of English title borne by members of the royal family In 1706 George, afterwards roval family In 1706 George, afterwards George II was made an English peer as Dul e of Cambridge In 1801 Adolphus Frederick (1774-1850), a son of George III, was made duke From 1815 to 1837 he was vicerey of Hanover His son George William Frederick, the 2nd duke, born in Hanover, March 26, 1819, entered the British arm and served in the Crimean War From 1856 until 1895 he was commander-in-chief, and he died March 19, 1904 The duke married morganatically and consequently his title became extinct three sons took the name of FitzGeorge.

Marquess of British title Cambridge In 1917, when the name of the royal family was changed, the Duke of Cambridge Born Aug 13, 1868, he was the eldest son of the Duke and Duchess of Teck and brother of Queen Mary He married a daughter of the 1st Duke of Westminster, and died Oct. 24, 1927 His son George (b 1895) became the 2nd marquess Cambridge

Inland county of Cambridgeshire England In the east of the country, it covers 864 sq m., and is largely in the fen area. In the south and south east, however, are slight elevations called the Gogmagog Hills. The chief river is the Ouse, others are the Nen, the Cam and the Lark. Cambridge is the county town, others are Wisbech, Ely, March and New market The county is a famous agricultural area For some purposes Cambridgeshire is two counties, each with its county council, Cam-bridge proper and the Isle of Ely Pop (1931) 217 709

The Cambridgeshire is a race run at Newmarket in October

Village of Scot Cambuskenneth land It standing Its abbey, on the Forth just outside Stirling Its abbey, of which only ruins remain, was founded by David I in 1147, and here James III and his wife were buried

Cambuslang Town of Lanarkshire It the Clyde, 6 m from Glasgow, on the L MS Rly The chief industry is steel making A great religious revival here in 1742 was known as the Camb slang wark. Pop 26,130

Camden City and river port of New opposite Philadelphia and a busy industrial centre with manufactures of various kinds, also shipbuilding yards Pop (1930) 118,700 Another Camden is a town in S Car

Here during the war of independence, on Aug 16 1780 the Americans attacked the British under Lord Cornwallis The engagement ended in a British victory

Camden Marquess Englishtitle Charles Pratt was born in 1714 He was Pratt was born in 1714 He was made attorney general in 1759 and chief justice of the common pleas in 1762 From 1766 70 he was lord chancellor and later president of the council He was made Baron Camden in 1765, and an earl in 1786 and died April 18 1794 His son John was made a marquess in 1812 and the title is still held by his descendant. The family seat is Bayham Abbey and the estates are in Kent and Sussoy The earl has property in Camden Town and his eldest son is called the Earl of Brecknock

Camden William English antiquary The son of a painter, he was born in London May 2, 1561, and educated at London schools and at O dord In 1575 he was appointed a master at Westminster School, and from 1593 to 1597 he was headmaster Camden rom 1595 to 1597 he was nearmaster Camberlis lamous for his Britanna, a survay of the B-itish Isles written in Latin Its value even in our own time is extremely great He collected the epitaphs in Westminster Abbey and wrote two or three historical works He also at Childhurt 100 1593 died at Chislehurst, Nov 9, 1623

Company District of London

Camden Town Itisin the boroughs of St Paneras and Islington to the N W of the city and is served by the tube railways and

by omnibuses It has many factories and warehouses

Genus of hump backed ruminant camel mammals The feet are splayed for desert travel Water cells in the stomach lining store a three-days' supply The one-humped camel, C. dronedarius, no longer Camel known wild, comprises the swift racing breed called dromedaries as well as baggage camels Originally Arabian, they now live in N Africa the Canaries, W Asia and N W India, and the Canaries, W Asia and NW India, and have been introduced into Australia The two humped Bactrian camel, C bactriana, inhebits the central Asian steppes feeding on saline herbage The hair of the camel is used for making brushes and clothes.

Market town of Cornwall on the little River Camel. Camelford 12 m from Bodmin and 241 from London, on the S Rly Near the town are large slate quarries Pop 1400

Camellia Genus of evergreen trees native in tropical and eastern Asia One sub genus, with pendulous flowers and persistent sepals, is represented by the tea plant. The other, with erect flowers and deciduous sepals, contains about eight species, of which C japonica, brought from Japan to England in 1739 a tree 20 ft high, has laurelike leaves and odourless red flowers, now presenting many pink and white varieties. A smaller species C riticulata, from Hong Kong, has larger bright rose, semi-double blooms has larger bright rose, semi-double blooms

Camelot Name given to King Arthur's capital Its locality is uncertain, but it has been identified with Caerleon

Camel's Thorn Genus of small leguing from Egypt to central Asia (Alhagi) Its rigid, spiny stems and ligneous seed pods are often covered with a light brown sweetish exudation of which camels are very fond

Engraving in relief on hard material and the object so Cameo engraved Such carved gems are found in the earliest civilisations, supreme examples represent gom-cutting at its best Surfaces with variegated colouring, as agate and onys, were preferred, and were simulated in glass as in that incomparable cameo engraving the Portland wase The Italian Renaissance introduced cameos carved out of molluscous shells, and imitated the effect in Cameos have been used Josiah Wedgayood coramic jasperware for brooches and signet rings

Apparatus for throwing Camera image of an object through a lens upon a soreen, for purposes of drawing, instruction or photographic record For the first named purposes it was called the camera obsoura, having its modern outcome in the periscope Utilised for photography by Thomas Wedgwood before 1802, the photographic camera is essentially a rectangular box holding long and sensitived riess plates or films. lons and sensitised glass plates or films Cameras take pictures by instantaneous or time exposure, and variants enable pictures to be taken storeoscopically, in natural colours, or recorded consecutively on cinematograph films. In 1933 an invention made possible the recording of moving pictures in relief

Cameron Richard Scottish Covenanter and founder of the Reformed Presbyterians, or Cameronians A school master at Falkland, he became a preacher and a leader among those who disliked episco pacy He joined the Sanquhar Declaration (June 22, 1680) discoving allegiance to Charles II, and was outlawed He was killed in a skirmish at Airds Moss, Ayrshire, July 20, 1680

Cameron sir David Young Scottish Cameron artist Born in Glaspow in 1865, he studied art in Edinburgh in 1911 he was made A R A., in 1920 R.A., and in 1924 he was knighted He shows great richness of tone in his treatment of architecture, while his later productions are marked by a more personal style in his dry points of mountain and moorland scenery He has published Paris Etchings and Etchings in Belgium Etchings and Etchings in Belgium

Cameron Sir Ewen. Highland chief-Cameron, he became head of his clan and was known as Lochiel A romantic figure and a great fighter, he served Charles II, who made him a knight He is said to have killed the last wolf in Scotland He died in Feb, 1719.

Cameron Verney Lovett English exborn at Weymouth, July 1, 1844, and became
a sailor In 1872 the Royal Geographical
Society sent him to Africa as leader of an
expedition to help Livingstone Next year
he heard of Livingstone's death, but went
on to Lake Tanganyika, and was the first
explorer to cross Africa from east to west
In 1882 he accompanied Sir Richard Burton
to the west coast of Africa He was killed English ex-He was to the west coast of Africa He while hunting, March 27, 1894 He was Lilled He wrote Across Africa and some stories for boys

Cameronians Followers of Richard Cameron (q r) They refused to take the oath of allegiance to William III after the religious settlement of 1689-90 In 1743 they formed a church which spread to N Ireland and the United States In 1876 most of them united with the Free Church of Scotland and soon ceased to have a separate existence. separate existence

The Cameronians, or Scottish Rifles, is a regiment of the British Army It was raised among the Covenanters to fight for William III against James II Its record includes service under Warlborough in Foundament service under Marlborough, in Egypt and Spain, in the Crimea and the Indian Mutiny, in S Africa and in the Great War

Cameroons District of West Africa Atlantic, it lies between Nigeria and French Equatorial Africa and is partly French and partly British French Cameroons covers 166 489 sq m Yaunde is the capital and Duala the chief port It is under a commissioner Pop 1,880,000 British Cameroons adjoins Nigeria and covers 34 236 so m 74 adjoins Nigeria and covers 34,236 sq m. It is divided into two parts, both being governed from Nigeria Buea is the capital and Victoria the chief port. Pop 774,585

Camilla In Roman legend, a virgin warrior, queen of the Volscians Virgil's Aencid describes her as the daughter of King Metabus of Privernum, and as having been brought up as Diana's fleet-footed companion She went to the aid of Turnus against Acneas, one of whose knights Aruns, slew her treacherously in battle

Camillus Marcus Furius Roman was five times dictator, and had four triumphs
He was censor in 403 BC, and as dictator
completed the siege of Veil in 396 He went He went into voluntary exile, but returned to prevent Signor Mussolini, and Brennus and his Gauls from selzing Rome in Littoria was founded.

He helped to pass the Licinian laws in 390 367

Camisards Name given to French Protestants in the 17th century They were persecuted after the edict of Nantes, 1685, especially in Languedoc In 1702 some of them under Jean Cavalier rose in revolt They were called Camisards because they were a camise, or shirt, over their armour so that their friends could recognise them in the dark. For two years a savage civil war was waged, but in the end the few remaining Camisards were forced to submit

Camoens Luis Vaz de Portuguese poet.
Banished in 1546 he fought
against the Moors and went to the East Indies
in 1553 Then he was in prison at Goa, as he was later at Mozambique, and did not return to Lisbon until 1570 He died in 1580 While in the East Camoens wrote his great

poem, Os Lusiados (The Lusitanians), 1572 This tells the story of the deeds of the Portu guese in stately and noble verse, and is their national epic Camoens also wrote much other verse and some comedies. A chair of Portuguese language and literature has been established in his memory at King's College, London

Camomile Genus of strongly scented composite herbs They grow in Europe. W Asia and N Africa The in Europe, W Asia and N Africa The solitary heads of vellow tubular florets are usually surrounded by a single white ray The common camomile Anthemas nobiles, tends to produce double heads, with the yellow centre white and ligulate. Its bitter principle and aromatic oil are utilised as a stomachic and tonic, or in fomentations, in large doses it is a purgative

Camorra Secret society It arose probably in the prisons of Naples about 1820 and attained enormous strength. Candidates for membership were subjected to severe tests and a council of twelve directed their movements with secrecy and skill Large sums of money were obtained by blackmail between 1820-1860, when the society was at the height of its power It had members in all classes, and, especially after 1860, had great political influence The trial of 37 Camorrists at Viterbo in 1911 was a great blow to the organisation. The word came from the Spanish chamarra, a cloak

Camouflage Device for deceiving or misleading During the Great War the word denoted new methods of military deception necessitated by the activity of enemy aircraft and submarines On land aerial observation was confused by extending mats or fishing nets painted to simulate vegetation over gun positions or roads sea, a dazzle department, under artistic supervision established by the British Admiralty, directed the painting in confusing patterns of merchant vessels and naval craft.

Campagna Flat, marshy plain surrounding Rome Extending from the Sabine, Alban and Lepini hills to the coast between Civitavecchia and Terracina, it embraces the ancient Latin territory, and before Rome became supreme possessed many important citics. The soil yields many important cities. The soil yields pasturage for horses, cattle, sheep and goats. pasturage for norses, cartie, sheep and goals. Its unhealthiness, noted in classical times, increased with the development of malarial conditions. These are gradually yielding to public sanitary campaigns, greatly expedited by bignor Mussolini, and in 1932 the new commune.

Campanile Italian name for a beliry tower detached from the main body of a church, such as that at Wilton near Salishury or the one in the Plazze of S Mark at Venice

Campanology Science or art of belithe Latin word campana, and is in practice confined to church bells. It usually takes the form of change ringing which is ringing a peal of bells in different orders so as to obtain variety of sound. Thus, on a peal of eight bells 40,320 changes can be rung, but on a peal of four only 24. The bells can, however, be rung in rounds not changes. The bells are numbered and sometimes named, as are the peals, the chief of which are bob and grand sire. The finest bells are in the English cathe drais, notably York. Change-ringing was founded, so it is believed, by Fabian Stedman who was born at Cambridge in 1631. He wrote on the subject two books, Tintinnologia and Campanologia. In 1921 his work was commemorated at Cambridge. The carliest societies of bell ringers date from the 16th century, and to day there are several associations and a central council of bell ringers. They hold festivals from time to time, one such being held at Croydon in 1932. See Beile.

Campanula (Bellitower) Genus of the which includes annuals blennials and peren nials The ordinary border campanulas are hardy perennials varying in height from 18 inches to 3 or 4 ft, and bearing spikes of blue or white bells

Campbell Scottish clan One of the heads given the surname of More (the great) from his numerous exploits and his successors in the chieftainship called themselves Mac Callum More, the sons of Callum the great. Among the Gaelle clans of Scotland the Campbells occupied a distinguished place their chief became Duke of Argyll Their original home was in Argyllshire and the milands of the west coast of Scotland Other titles borne by the Campbells are those of Earl of Breadalbane and Earl Cawdor

Campbell Beatrice Stella. English actress, known as Mrs Patrick Campbell She was born in Kensington, Feb 9, 1865 She was educated in England and Paris and married in 1884 Patrick Campbell, who was killed in S Africa in 1900 In 1914 she married Major G F M Cornwallis West After appearing in amateur theatricals, she toured with several dramatic companies including the Ben Greet Company From 1891 to 1893 she played at the Adelphi Theatre, London, and in May 1893 scored a notable success as Paula in The Second Mrs Tanqueray at the St James 8 Theatre Other successes were Juliet (1895), Magda (1896), Ophella (1897), Lady Macbeth and Lady Tenzle (1898), and George Sand at the Duke of York's Theatre in 1920 She published My Life and Some Letters in 1922

Campbell Lord British lawyer John Campbell was born at Cupar, Sept 15 1779, and studied at St Androws for the ministry, but became a barrister in London In 1830 he entered the House of Commons as Liberal JI P for Stafford, and in 1833 was solleitor general In 1834, 1835 39 and 1840 41 he was attorney general, and in 1841 he was made lord chancellor for Ireland and a peer In 1846 he was appointed chan

collor of the duchy and in 1850 lord chief justice From 1859 to his death, June 22, 1861, he was lord chancellor Campbell is chiefly remembered for the measure of 1843 dealing with libel, called Lord Campbell's Act, and for his Lives of the Lord Chancellor, and Lives of the Chief Justices

Campbell Reginald John English preacher Born in London in 1867, he was educated at Christ Church, Oxford In 1895 he became the minister of a Congregational Church at Brighton, where his

Campbell Reginald John English preacher Born in London In 1867, he was educated at Christ Church, Oxford In 1895 he became the minister of a Congregational Church at Brighton, where his preaching attracted much attention In 1903 he was chosen minister of the City Temple, London In 1915 he joined the Church of England and was ordained He was vicar of Christ Church, Westminster, 1917-21 and of Holv Trinity, Brighton, 1924-29 Resigning, he devoted himself to mission work in the diocese of Chichestor and in 1930 was made a canon residentiary of the cathedral

Campbell Sir Malcolm British motor ist Born in March, 1884, he entered Lloyds in 1903 and became an under writer there in 1906 In 1909 he became a

Campbell Sir Malcolm British motor ist Born in March, 1884, he entered Lloyds in 1903 and became an under writer there in 1906 In 1909 he became a racing motorist After the war won many trophies at Brooklands and elsewhere In 1924 he made a world's record by driving his car 1464 m in the hour In 1927 the first of his Blue Bird cars appeared and in 1928 he created a record, 212 m per hour for the five m On Feb 5, 1931, at Daytona, he beat Segrave's record with a speed of 2457 m. per hour, and on his return to England he was knighted In 1935 he made a new record with a speed of 30112 m per hour In 1931 he published My Greatest Adventure, an account of his expedition in 1926 in search of treasure believed to be hidden in Cocos Island

Campbell Thomas Scottish poet. He educated in Glasgow In 1799 he published The Pleasures of Hope Later came Gerirude of Wyoming and the martial songs by which he is best known such as Ye Mariners of England and The Battle of the Baltic Lord (lin's Daughter Lochiel and Hohenlinden are others of his poems He died at Boulogne June 15, 1844

Campbell-Bannerman British politician Born in Glasgow, Sept. 7, 1836, he was a son of James Campbell a business man there In 1872 he took the additional name of Bannerman, that of his mother He was edu cated at Glasgow and Trinity College, Cam bridge and adopted a political career In 1868 he was elected Liberal M.P for the Stirling Burghs and in 1871 74 and 1880 82 he was Financial Secretary to the War Office From 1882 84 he was Secretary to the Admiralty and in 1884 85 Chief Secretary for Iroland From 1892 95 he was Secretary for Iroland From 1892 95 he was Secretary for Jarty, which he led through some very difficult years In Nov, 1905 he became Prime Minister He died childless April 22, 1908 Sir Henry was a moderate Liberal, best remembered because his ministry gave self government to S. Africa

Campbeltown Burgh and scaport of Argyllshire It is 85 m from Glasgow, 37 from Tarbert, and has a good harbour The chief industries are fishing and distilleries Steamers ply between here and Glasgow Pop (1931) 6309

Campeggio Lorenzo Italian cardinal Born at Bologna in 1472 he studied there and at Padua In 1512 he was made a bishop and in 1517 a cardinal He visited England in 1519 and was made Bishop of Salisbury, but was soon in Italy again In 1523 he was sent to try the case for a divorce between Henry VIII and Catherine of Aragon Acting on instructions he refused to pronounce sentence, and adjourned the case Soon afterwards he lost the bishopric of Salisbury, but he had already received that of Bologna. He died in Rome, July 25, 1539

Camperdown English name for the putch village called Camperduin It is on the coast of the Netherlands, 27 m from Amsterdam, near the scene of the battle fought on Oct 11, 1797, between the British and Dutch fleets The Dutch fleet came out of the Texel, where it had been blockaded, and the English ships, under Adam Duncan, crossed from Yarmouth to meet it After a hard fight the Dutch vessels were either sunk or seriously damaged

Camperdown Town of Victoria It bourne, with which it is connected by railway,

and is in a pastoral district. Pop 3900

Camphor Species of tree (cunamomum camphora) It grows in Formosa, Japan, and E China From its timber is distilled the hydrocarbon known as camphor (C<sub>1</sub>H<sub>1</sub>O) This whitish, translucent, volatile substance, with a penetrating odour, is an essential constituent of celluloid, and is used in medicine as a pervoyal stimulant, and antimedicine as a nervous stimulant and anti-spasmodic Borneo or Sumatra camphor, with two additional hydrogen molecules, is found in solid, crystalline masses in the wood of a gigantic forest tree

Campion Popular name for several order They are common in Britain and in N Europe and Asia Red campion is lychnis diurna, the night-flowering white campion is vespertina Meadow campion, or ragged in (L floscuculi), has dissected petals Another garden favourite, rose campion (L coronaria), is cultivated in double forms Moss campion (silene acaulis) forms green cushions of close-set, hair-like leaves, bladder campion (S cucuvalus), with inflated calyx, is allied to sea campion (S maritima) Spanish campion (S circles) has greenish vallow, flavors (S otites) has greenish-yellow flowers

Campion Edmund English Jesuit. Born in London, Jan 25, 1540, he was educated at Christ's Hospital and Oxford, degree at Douay, went to Rome and joined the Jesuits He was sent to England in 1581 with Robert Persons to strengthen the wavering Catholics at a time when Roman priests were forbidden to enter After about a year he was captured in Berkshire, tried for treason and sentenced to death On Dec 1, 1581, he was hanged at Tyburn In 1886 he was beatified On Dec 1, 1581, he was

Campion Thomas English poet Born in London, Feb 13, 1567, he was educated at Cambridge He studied law, but soon turned to medicine and practised in London He is best known as a writer of lyrics, some of which he set to music He died in London, March 1, 1620

Campsie District of Stirlingshire Here are the Campsie Fells, a range of hills which rise to 1500 ft. Campsic Glen is a beauty spot.

Camwood Red-wood obtained from a W African leguminous tree

(baphia) Allied to barwood, it reaches 30 ft. in height and bears lustrous leaves and white flowers The timber, roughly pulverised, yields the mock Turkev red of cotton dyers, and an indigo base for wool dyeing

Village of Palestine It was the home of Nathaniel and the scene of ےana the marriage feast at which Christ wrought his "beginning of miracles" (John ii 4) Its site is traditionally attributed to Kefr Kenna, a Galilean village between Nazareth and Capernaum

Name of one of Noah's grand-Lanaan to the land later called Palestine Its inhabitants the Canaanites, were crushed by the invading Israelites

Dominion of the British Empire Canada It occupies the northern part of the Continent of N America and stretches from the Atlantic to the Pacific From the United States it is separated by an artificial boundary drawn (east to west) along the 49th parallel of latitude through the Great Lakes and then in an irregular fashion to the sea. In the north the Dominion extends into the Arctic Labrador, on the east coast, belongs to Newfoundland The land area is 3,510,000 sq m and the population (1931) 10,374,196

Much of Canada is a great plain, but in the west are vast mountain ranges The Rocky Mts are partly in Canada and in among them are many peaks over 10,000 ft. high The highest points in the Dominion are Mt. Logan (19,850 ft) and Mt St. Elias a little lower The main river is the St Lawrence This is navigable by large vessels in the summer months as far as Montreal Other great rivers are the Mackenzie, Peace, Saskatchewan, Nelson Churchill and Yukon Four of the Great Lakes are partly Canadian, others are Great Bear, Great Slave, Winnipeg, Lake of the Woods and Athabasca

Canada is a federation of nine provinces and two territories Four of the provinces, Quebeo and Ontario, the original Canada, Nova Scotia and New Brunswick, formed the federation of 1867 Prince Edward Island and British Columbia were soon admitted Manitoba, Columbia were soon admitted Manitoba, Alberta and Saskatchewan were formed out of the vast territories to the north-west nine provinces have their own ministries and legislatures for internal administration, but for other matters there is a ministry

for other matters the Dominion capital parliament at Ottawa, the Dominion capital Wheat and other cereals are grown in great chundance in the prairie provinces Other abundance in the prairie provinces Other branches of agriculture that flourish are cattle raising, dairy farming and fruit growing The fisheries are important. There are vast reserves of coal, and a good deal of gold, silver nickel, cobalt and copper is produced nickel, coolit and copper is produced incenormous forests provide pulp for paper making which, like lumbering, is another source of wealth Manufacturing industries, protected by tariffs, have been established Of these Montreal is the largest, others are Toronto, Winnipeg, Vancouver, Hamilton, Ottawa and Quebec

The country is well supplied with the con-these are linked into two great systems, one, the Canadian National, is owned by the State, the other is the Canadian Pacific There are a The country is well supplied with railways the other is the Canadian Pacific There are a militia, a small navy and an air force, the militia having been the nucleus of the armies that Canada sent to the Great War

The country has its own banking system Its coinage is based on the American system, being

HISTORY—The first settlers in Canada were the I'rench who founded both Montreal and Quebec on land visited by Cartier and Champlain New France, as they called it, in Inded the older part of the province of Quebec and Nova Scotia, known as Quebec War between England and France resulted in the surrender of Nova Scotia, and 50 years the surrender of Nova Scotia, and 50 years liter, in 1763, of Quebec to Great Britain Unlike Quebec, Ontario or Upper Canada was colonised by the British many of its early inhabitants being loyalists from the United States who made their homes there after 1783

Quebec and Ontario, or Lower and Upper Canada, were made separate provinces, each with its own legislature in 1791, but in 1841 they were united after there had been risings in both districts In 1867 the Dominion of Canada was formed this being a federalion of four provinces, the two named and New Brunswick and Nova Scotia. Manitoba, Brunswicl and Nova Scotta Manitoba, Prince Edward Island and British Columbia jo'ned it a little later, and it was completed when Alberta and Sashatchewan were carved out of the vast district that had once belonged

to the Hudson's Bay Co

to the Hudson's Bav Co
The first premier of Canada was Sir I A
MacDoneld who was responsible for a national
policy of protection His party (the Conser
vatives) remained in power, except during the
years 1874 78 until 1896, when the Liberals
under Sir W Laurier had a long spell of office
This was terminated in 1911 as the people
disliked the proposed reciprocity treaty with
the United States Soon afterwards came the
Great War, which Canada entered at once
The Conservative minority under Sir Robert
Borden became in 1917 a coalition, and a fierce Borden became in 1917 a coalition, and a fierce fight was waged over conscription which was specially disliked by the French in Quebec Canada sent some 400 000 men to the sent of war and over 50,000 names were on her roll of honour The coalition broke up in 1920 and the Liberals under W L Mackenzie King except for a short time in 1925-26 formed the government until 1930 In that year a general e'ection resulted in a Conservative victory. The premier, R B Bennett, called the Empire Conference which met at Ottawa in July, 1932 The general election of 1935 gave an over whelming mejority to the Liberals, and Mac-henric King again became premier

## Canadian Mounted Police

Roya! Police maintained by the Dominion of Canada, for service in the Arctic the N W and Yuron territories, and also in the Indian reservations and the national parks. The force is controlled from Ottawa and until 1919 was called the N W Mounted Polico. It is organised in thirteen divisions and its strongth in 1930 was 2500 officers and men

Canal Artificial waterway used for trans on the same level throughout, but in most of them locks are used for raising and lowering borts Canals were made by the Chinese and the Persians in the days before Christ In Great Britain they were constructed for commercial purposes in the 18th century. In the 19th the competition of the railways adversely affected their prosperity but the introduction of motor traction revived their use

in dollars and cents Canada is a member of largest, and the Suez the longest Projected the League of Nations ship canada include the Georgian Bay in HISTORY—The first settlers in Canada Canada and one between Forth and Clyde

In England the chief canal is the Grand Union, an amalgamation of several waterways that serve the area between London and Birmingham The Birmingham area is also connected by canal with the Manchester area, and with the Aire and Calder navigation system in Yorkshire The Caledonian and Crinan are the chief of several cannis in Scot land In all there are 4673 m of canals and

land In all there are 4673 m of canals and canalised rivers in Great Britain and Ireland. In 1909 a Royal Commission favoured the development of the canal system. The rates charged for carriage by canal are controlled by the Rallway and Canal Commission. In Great Britain many families make their homes on canal barges. A floating school for these children has been opened at W. Drayton, Middlesex. There is a Canal Boatmen's Institute at Paddington. Institute at Paddington.

Canaletto Antonio Italian painter Born in Venice, Oct 18, 1697 his real name was Canale He lived chiefly in Venice, although he studied in Rome. in later life he twice visited England His pletures are chiefly seenes of Venetian life. Examples are in the Wallace Collection and the National Gallery, London He died in Venice. Aug 20, 1768

Canary Popular song bird It belongs to the Canary and Azores Islands, where it is still found wild There it is greenish in colour with brown streaks, not yellow as in captivity In the 16th century it was domesticated and since then has been bred in captivity. The birds lay four or five blue eggs and ruise three or four broods in a season

Of the many varieties the best singer is the Roller, which is bred in the Harz Mts, Ger many The birds feed on canary seed or millet, many

with some chickweed or groundsel

Canary Grass Annual grass A listands and Madeira, it is cultivated in the S. of England In Morocco, Italy and elsewhere it is grown under the name of alpist for bird seed and as a breadstuff It grows to a height of about 3 ft with compact, oval panicles

Canary Islands Archipelage of the N Atlantic Situated 60 m W of the African coast, there are seven islands and six uninhabited islots, covering 2807 sq m. The chief are Teneriffo with Santa Cruz as its chief town, and Grand Canary with its chief town Las Palmas The fertile soil produced Canary wine, it is now used for the growing of fruit, especially bananas, tobacco and vegetables The equable climate attracts many visitors On Teneriffe is the peak of that name, 12,200 ft.

high Pop (1931) 564 873

Canary Wood Mahogany like procured from evergreen tree laurels especially Persea indica Sometimes sold as Madeira mahogany, it polishes dark and derives its name from having come first from the Canary Islands The trees grow in Madeira and the Azores

Canberra Capital of the Commonwealth federal territory, 196 m from Sydney with which it is connected by railway. The site was The world's ship canals include the Sucz Panama, Welland Sault Ste Marie, Kiel and since then the city has been planned and Corinth and Manchester The Panama is the many buildings creeted These include the Parliament House, opened in 1927 Canborra has an Anglican cathedral, and on a hill near is an observatory The principal streets radiate from the capital circle A university has been founded here

The federal territory is also called Canberra This covers 912 sq m around the city and a further 28 sq m at Jervis Bay on the coast. The Murrumbidgee flows through it and a tributary through the city itself.

Cancer The name of a small constellation between Gemin and Leo The northern of the two tropics is called the Tropic of Cancer It is a line of latitude 231 degrees north of the Equator

Cancer Malignant tumour, technically called carelnoma Observable in most if not all vertobrates, it comprises a frame work of connective tissue enclosing cells of epithelial type, which may invade other organs and occasion secondary tumours Early extirpation may effect a permanent cure Cancer is non-infectious, but is apparently influenced by long-continued irritation. Its cause, still uncertain, is increasingly attributed to a filter passing virus acting in conjunction with another specific factor. It is essentially a disease another specime motor it is essentially a disease of middle and advanced life, in England and Wales deaths from it increased from 30,000 in 1913 to 63 263 in 1934 Radium treatment is being studied with a view to checking the disease It is so called because of its resemblance to a crab with its tentacles (Lat cancer)

Various societies exist to combat cancer There is a Cancer Research Fund at 8 Queen Square, Bloomsbury, London, W.C., and a British Empire Cancer Campaign at 19 Berkeley Street, London, S.W. The Cancer Hospital is in Fulham Road, London, S.W. 3, and there is a National Society for the Relief of Cancer at 15 Pareleys Bond London, S.W.

15 Ranclagh Road, London, SW 1

Candia City of Crete It is on the north coast and has a small harbour The chief buildings are the cathedral, a modern edifice, and the arsenal erected by the Venetians Pop 33,400

Candle Solid fat or wax rod, with fibrous wick, burned for artificial light The earliest domestic forms were tallow dips, with cotton, flax or rush wicks, beeswax being reserved for church use Later, by the use of chemically impregnated plaited wicks, snuffing was avoided The extraction of glycerine from stearine and palmitin released fatty acids which. mixed with some paraffin, constitute stearing candles Paraffin candles are derived from solid hydrocarbons in certain mineral oils, and sperm candles from the spermaceti of sperm whales

Candlemas Ecclesiastical festival This feast, in honour of the purification of the Virgin Mary, is held on Feb 2, and commemorates the offering of the Infant Jesus in the Temple In the Middle Ages it was general in the Christian Church, and candles were blessed and carried in procession to signify the entry of Jesus Christ as the light of the world. Candlemas is a quarter day in Scotland

Candlenut Truit of a Moluccan and Hawaiian tree (Alcurites iriloba) Widely cultivated, it grows to a height of 30 or 40 ft. Its fruits contain several seeds which yield two-thirds of their weight in quick-drying oil. In Havail the dried berries are used as torches. The oil is used by artists and dyers, and for making soap and candles

Candle Tree Control American tree of the bignonia order (Parmentiera cerifera) It forms natural forests in the Chagres Valley of Panama The trifoliate leaves have incurring spines The large greenish flowers have sheath-like calves from which grow fleshy, spindle-shaped fruits, nearly 4 ft long They are used for cattle food

Candolle Augustin Pyrame de Swiss botanist Born in Geneva Feb 1778 he died there Sept 9, 1841 De Candolle's writings include part of a large work on the vegetable Lingdom He is also known as the author, or developer, of a system of classifying plants. His son, Alphonse de Candolle, helped in this work and also made a name as a botanist

Candytuft (Iberis) Hardy plant of which there are annual and percential varieties. The annual candytuft is about 12 in high with clusters of flowers in many shades of rose, purple, orimson and mauve. The perennial variety (Heris semperurens) is an evergreen shrubby plant of low growth, with masses of white blossom

Cane Stem of certain grasses and palms
They have well-marked rings where
the leaves arise They are used for basket
work, chairs, matting, ropes, etc Malacca
cane and rattans are used for walking sticks
sugar-cane is the source of cane sugar and the
barbook finds many special uses where if bamboo finds many special uses where it grows

Canea Capital and scaport of Crete It stands on the north side of the island and has a harbour suitable for small vessels A modern quarter has a licen on a hill above the old town Canea has some manufactures and around it are the walls built by the Venetians after they took the city in the 13th century. In 1646 it was taken by the Turks, and in 1841 it was made the capital in place of Candia Pop 26,000

Cang, or Cangue Instrument of torture Used by the Chinese it consists of a large wooden collar fitting closely round the neck which prevents the wearer from resting

Canker Plant disease due to the attacks of a fungus, usually neetria ditissima The growing tissues are destroved and malformation of the cortical tissues ensues, a gaping wound being formed Beech, ash and apple trees are frequently attacked

Medically, canker is the name for an ulcerative gangrenous affection of the cheek and mouth, principally affecting vonug children It may attack a child debilitated by previous illness or living amid insanitary surroundings Canker is also a chrome disease of the ear,

affecting dogs and cats

Cannae Ancient town of Applia, Italy It is memorable for the crushing defeat of the Romans by the Carthaginians in 216 вс

Cannel Coal Variety of coal It has yolatile matter, 80 to 84 per cent of carbon, and leaves but little ash. It shows no trace of its vegetable origin and is hard, dull in lustre and brownish or black in colour It burns readily with a bright candle like flame, and is used in gas making

Watering place of France It is annes Cannes situated on the south coast, 120 m from Marsellles A casino is among

the attractions, and tennis tournaments regattas and other meetings are held regularly tournaments, There is a fine promenade along the front In the old town are the church of Notre Dame and the ruins of a castle, and on a hill near is an observatory Pop 47,259

Earl English statesman Canning Charles John Canning, the 3rd son of George Canning, was born in London, Dec 14, 1812 Educated at Eton and Christ Church, Oxford, he entered the House of Commons in 1836, and in 1837 was made a Canning viscount Postmaster General, 1853 55, in 1855 he became Governor General, 1853 55, in 1855 he became Governor General of India, and he was there during the Mutiny and also when the government was taken over from the E India Co by the Crown In 1859 he was made or co by the Crown In 1859 he was made an earl He retired just before his death, June 17, 1862 The title is extinct

British statesman George Canning Born in London, April 11 1770, he was educated at Eton and entered Parliament as M P for Newport in 1794 He held positions under Pitt before 1801, and made a name by his writings in the Anti Jacobna and as a speaker in 1804 66 he served, again under Pitt, as Secretary of the Navy

In 1807 he became Foreign Minister, and held the roof until 1809 resigning owing to be

In 1807 ne occasine Foreign Intinster, and held that post until 1809, resigning owing to his quarrel with Castlereagh, which led to a duel between them From 1816 21 he was President of the Board of Control and in 1822 he succeeded Castlerough as Forcign Secretary He remained in that office until April, 1827, when he suc ceeded Liverpool as Premier but in a few weeks he died Aug 8, 1827 He was buried in Westminster Abbey

great orator, a man of vision and determination Canning Town District of London In the borough of West Ham, it lies along the north of the Thames on the L N E Rly It is a busy industrial area and includes the Victoria and District of London Royal Albert Docks

Canning was a great administrator and a

Cannock Urban district and market town of Staffordshire It is 128 m from London, on the LMS Rly It is chiefly the centre for the coal mines in the district called Cannock Chase but has some Pop (1931) 34,588 manufactures

Piece of artillery, now usually Cannon called gun Cannon were used at Crécy (1346) or perhaps earlier

Name of a family of English jockeys Tom Cannon, born at Cannon

Eton in 1846 won many of the leading races between 1866 and 1884 He then became a trainer at Stockbridge where he died, July 13 1917 Three of his sons, Tom Cannon, Jun Mornington Cannon and Kempton Cannon were prominent and successful jockeys between about 1890 and 1920

Cannon Ball Tree of tropical America It is of the natural order Alpriaceae, and has large flowers, rosy or whitish in hue, and alternate leaves which grow out from the branches and the trunk Its fruit is large and globular hence its name

Originally a rule or law ordered by ecclesiastical authority From this the word came to describe certain persons in holy orders. The rules were collected and became the Canon Law which was very important in Europe in the Middle Ages and the influence of which may be traced in the laws of to day It was administered in the

church courts, had its own practitioners and was a favourite subject at medieval univer sities

The Apostolic Canons are a collection of ecclesiastical laws put together in the 8th century The Bible Canon is the list of books which have been declared canonical, ie included in the Old and New Testaments

The word canon, at one time used for all The word canon, at one time used for an elergy, came to be used in the Church of England for cathedral clergy only, and this is its use to-day. They are divided into residentiary canons who with the dean form the chapter or governing body of a cathedral, minor canons, also regular workers in a cathedral, but not members of the chapter, and henorary canons a much larger number.

and honorary canons a much larger number In the Roman Catholic Church there are canons regular, men who live under a rule as they did in the Middle Ages The chief of these are the Augustinians, or Black Canons, and the Praemonstratensians, or White Canons Canonesses are women living in communities

anonbury District of London In the metropoliton han In the Canondury metropolitan borough of Islington, it lies to the north of the city, on the LMS and Metropolitan Rlys Here is Canonbury Tower, the successor of the old manor house of the estate belonging to the Priory of S Bartholomew, Smithfield It is now a club Canonisation Act of making a person a saint It is practised

in the Roman Catholic Church, where, since 1634, only the Pope has had authority to canonise The process occupies many years and takes the form of a trial or elaborate inquiry A recent case of canonisation was that of Joan of Arc in 1920

Canopus Seaport of ancient Egypt Situoti the Nile, 12 m E of Alexandria, it had a considerable trade, but its inhabitants were notorious for their luxury and profligacy Here was a great temple of the Egyptian god Serapis After the introduction of Christianity the city fell into decay Its ruins are near the modern Abukir

Canopus was also the name of a British battleship, the first of a class built between 1899 and 1902, and designed to pass through the Suez Canal They were 420 ft long, displaced 12 950 tons and carried four 12 in

and twelve 6 in guns

Village of Italy It is 12 m from Anossa Village of Luty 1 Lister and Lances a famous castle Henry IV appeared before Pope Gregory and asked for pardon The ruins of the c The ruins of the castle are national property

Canova Antonio Italian sculptor Born his life in Rome engaged in practising his art, but made several journeys abroad including one to England He died Oct 13, 1822

one to England He died Oct 13, 1822
Some of his pieces bear comparison with
those of Michael Angelo "Theseus Vanquishing
the Minotaur" "Perseus with the Head of
Medusa," "Hercules and Lichas," Dancing
Nymphs," and 'The Awakened Nymph' are
notable He also made a bust of Napoleon and
executed some splendid memorials in Rome

Cantaloup Variety of musk melon It is small and round with a rough hard rind and reddish orange flesh More choice than the ordinary water melon, it

is very popular in the United States

Cantata Word meaning originally "sung"

(Lat canto, sing) Anciently a

story declaimed in verse by a single person, accompanied by a single instrument, it developed by the introduction of an air repeated at certain stages of the narrative into the concert aria Handel, Bach and Mendelssohn called their extended sacred compositions cantatas

The modern cantata is a choral work, too short to be classed as oratorio or opera, and performed as a concert piece without actions

Canteen Word meaning originally a water mean the place at which liquor was sold in barracks, on warships and in other places where soldiers and sailors live These canteens soon began to sell food and drink generally, also tobacco and other requirements Dry canteens, where the interface of the second selection is a selection of the second selection. where no intoxicating liquor are sold, were also established

Canterbury City of Kent and ecclesias-tical capital of England It stands on both sides of the River Stour, 544 m from London, with three stations on the S. Rly. Its chief building is the cathedral, one of the largest and most magnificent in the land It was built chiefly in the 12th and 11th centuries

The city has other interesting churches, among them the Holy Cross, S Martin's, S Dunstan's and S Poter's Secular buildings include the fine west gate with a museum, the guildhall, and the exchange There are ruins of the castle keep, the third largest in England In 1931 it was bought by the city Its main industry is a trude in cattle, corn and other forms of agricultural produce Its butter market is famous

market is famous
Canterbury was a Roman city and Roman remains still exist It was made a bishoppic by S Augustine in 597 Soon afterwards he became the head of the English Church, and in 1353 was styled Primate and Metropolitan of All England The archbishop has charge of the Diocese of Canterbury and is the unofficial head of the Anglican Church throughout the world Pop (1931) 24,450
A district of South Island, New Zealand, is called Canterbury Here are Canterbury Plains, covering about 4000 sq m which rear an enormous number of sheep The district covers 14,000 sq m Christchurch is the capital

14,000 sq m Christchurch is the capital

Canterbury Bell (Campanula Genus of the order Campanulaceae It is a blennial plant 2 to 3 ft in height, bearing beautiful bell like flowers in shades of purple, blue, rose and white Easily grown from seed sown out of doors in May and June, the seedlings should be planted out in the autumn

Cantharides Blistering agent used in medicine It consists of the dried bodies of a beetle of the genus Cantharis vesicatoria, commonly called the Spanish blister fly They contain the active irritant principle cantharidin, criminally used

as an aphrodisiac

antilever for a beam or girder which projects from a wall or other structure, and is supported only at one end It is the essential feature in certain types of bridge where two or more cantilevers are used, and in modern concrete architecture where solid overhanging and projecting slabs are used

Canton Name of a territorial division in France and Switzerland In France each arrondissement is divided into cantons, each of which has its own magistrate

In Switzerland there are 22 cantons, each with rights of self-government

Canton City and seaport of China, called Kwang Chow Fu It stands on the Chu-Kiang River, 80 m from its mouth, and is one of the great seaports of S China It consists of a walled town, the original city, modern suburbs including Honan, on an island, and a European quarter The chief buildings are the many temples some of them many and a European quarter. The enter buildings are the many temples, some of them mag nificent. The port does a large trade Vessels land their cargoes at Whampoa, 10 m down the river, where there is a state dockward. Canton is the capital of the province of Kuang-The population in 1931 was about Tung 861,024Many of the people live in boats on the river

Canute Name of several Danish kings, often spelt Cnut or Knut. Canute I, called the Great, became King of Denmark in 1014 and claimed the throne of England, which had been won by his father, Sweyn After a struggle with Edmund Iron-side he became king and ruled the two countries until his death at Shaftesbury, Nov 12, 1035 He married Emma, the widow of the English King Ethelred Canute IV, who was King of Denmark from about 1080 until 1086, tried to spread Christianity and was canonised His day is Jan 10

Canvas Stout fabric made of jute or tents, the salis of boats, packing and other purposes in which great strength is necessary Finer varieties are used by artists and as a backing for embroidery In N America a certain wild duck is called the Canvas Back Duck

Canvassing Solicitation of business or times applied to the method of selling goods by sending agents to visit private houses, but more usually to the system of asking persons to voto at election times for a particular person

anvey Island off the coast of Essex.
It is 30 m from London and is reached from Benfleet by means of a causeway at low tide It covers about 7 sq m In 1931 the erection of a bridge from the mainland was Canvey is an urban district In the finished 17th century it was recovered from the sea by Dutch engineers Pop 6000

Ravine or deep gorge between Canyon steep rocks Ravines are usually made by rivers cutting their way through the rocks The most famous in the world are in the western part of the United States In Arizona is the Grand Canyon of the Colorado River with walls 6000 ft high

Capablanca José Raoul Cuban chess master He was born in Havana, Nov 19, 1888 In 1909, he defeated the United States champion, F J Marshall Five years later he was beaten by E Lasker, the world champion, but in 1921 he retrieved his defeat and for six years was champion of the world, until beaten by the Russian, Alexander Alekhine, in 1927

Capacity In electricity, the quantity of cleetricity which will charge a cody or condenser to a stated potential. The body or condenser to a stated potential The unit of capacity is termed a farad, defined as that capacity which a coulomb of electricity will charge to the potential of one volt, but for practical purposes a micro farad equal to one-millionth of a farad is used generally.

The capacity of an accumulator is indicated

by the number of amoère hours given by a members to the House of Assembly and for fully charged cell and this is dependent upon local affairs has an Administrator and a the discharge rate

Capacity Power of receiving or containing the cubic content or volume The capacity of an airship is the size of its envelope. The capacity of a ship is the amount of its accommodation for passen gers and goods. Capacity is usually given in cubic feet or yards. In law, capacity is the power to act as a full oitizen. A minor is not of full capacity nor is a lunatic

Cape Breton Island of Canada Lying to the S of Nova Scotia from which it is separated by the Gut of Canso, it covers 3975 sq m and is part of the province of Nova Scotia. It is divided into two parts by the Bras d'Or Lake and St Peters Canal The largest town is Sydney, around which are valuable coalfields. Agricul

ture, fishing and lumbering are carried on In 1632 the island became French and on it the French built the strong fortress of Louis bourg In 1763 it was ceded to Great Britain and in 1820 was united with Nova Scotia (q v )

Cape Coast Port of W Africa In the about 80 m. from Accra Founded in 1610 by Portuguese settlers, it was captured in 1659 by the Dutch In 1664 it became British It was superseded as the capital by Acora in 1876 It has no harbour, but passengers and cargo are landed by means of surf boats Oil, ivory and gold are exported The town was formerly known as Cape Coast Castle Pop 17,685

Cape Cod Part of Massachusetts, USA It is a peninsula over 60 m long between Cape Cod Bay and Nantucket Sound On it are several harbours and pleasure resorts A canal shortens the sea passage between Long Island Sound and Boston On the bay is Plymouth, where the Pilgrim Fathers landed

Cape Colony See CAPE PROVINCE

Cape Gooseberry Shrub growing other warm countries It is called by botanists Physali peruvianas and was first found in S America whence it was taken to Africa It bears whitish flowers and purple berries which are acid to the taste

Cape Horn See HORN CAPE

Cape of Good Hope Cape of S Africa, often called simply the Cape It is in the S W of the continent, of which it is the southernmost point It was discovered in 1486. It gives its name to the district and to one of the provinces of the Union of S Africa

Cape Province Province of the Union Province of the Cape of Good Hope The most Province of the Cape of Good Hope The most southerly part of the continent, it has a coast line of 1300 m and includes Bechuanaland and Namaqualand In 1814 it became a British colony, in 1850 it was given responsible government and in 1910 it joined the Union The province covers 260,185 sq m In addition it has four native territories East Griqualand, Tembuland, Transkeir and Pondo land, making another 16,351 sq m The pop is over 2800,000, of whom 748,455 are Europeans. Capetown is the capital the only peans. Capetown is the capital the only other places of any size are Port Elizabeth East London and Kimberley It sends 58 Provincial Council

Caper (Capparis spinosa) Deciduous shrub found in the Mediterranean lands The flower buds are gathered and pre

lands The flower buds are gathered and preserved with salt and vinegar for use in sauces and salad dressings The berries of the African caper are sometimes used for the same purpose Capercallzie Tetrao urogallus Wood grouse or cock of the wood This game bird of N Europe was once indigenous in the British Isles The male is brownish black with a glossy, greenish black breast and black tall feathers It is equal in streator a small turkey and welpfs from eight state to a small turkey and weighs from eight to twelve pounds The hen bird is smaller, with markings of red and black and an orange red tinge on the breast She nests on the ground and the eggs number 6 to 12 Once extinct in Great Britain it has been re introduced to the Scottish Highlands

Capernaum Ancient city of Palestine It was situated W of the Sea of Galilee Sometimes distinguished by the name of 'His own city,' it was the scene of many events in the life of Christ There was a Roman garrison here and it was also a town where taxes were levied

Capet A royal family of France The first was Hugh Capet, who began to reign in 987 The Valois kings and the Bourbon kings were both descended from Hugh, as were the Dukes of Burgundy and Anjou and other noble families Louis XVI was called at his trial Louis Capet

Capetown City and seaport of S Africa, the capital of Cape Province It stands near the Cape of Good Hope, between Table Mountain and the sea There is a good harbour suitable for the largest liners and equipped for a large export and import trade The buildings include those of the Union legis lature, city hall, new Anglican cathedral and the old town house The castle dates from the 17th century The university is at Groote Schuur in Rondebosch, one of the suburbs In 1913 the city was enlarged and it now covers 60 sq m. 60 sq m.

Capetown is the terminus of the main railway lines that go into the heart of Africa Founded by the Dutch in 1652, it is the oldest European settlement in Africa Pop 213,000, of whom 149,236 (1931) are Europeans

Cape Verde Cape of Africa also a group of Islands in the Atlantic Ocean The Cape is the most westerly point of Africa and the islands are 350 m from it The largest island is Sao Thiago others are San Antao, Santa Luzia, Sao Vincente Fogo and Boa Vista They cover 1511 sq m and have 153 700 inhabitants Prala, on Sao Thiago, is the capital The Islands are moun tainous, the highest point being nearly 10 000 ft high They were discovered and named by the Portuguese about 1450 and have since belonged to Portugal belonged to Portugal

Capillarity Cohesive force which acts producing a tension upon a film of water in a tube of small bore, in fissures, or between two applied plates Capillarity exerts an upward pull causing a distinct rise of the liquid in the tube Examples of this phono menon are seen in the rise of oil in a wick or candle and in the rise of water in a sponge

Capital In economics accumulated wealth, especially that used for

or abstinence from spending, and is necessary

to material progress

Capital is sometimes divided into fixed, such as a factory, and floating, such as a balance at the bank, or into productive, such as a loom, and unproductive, such as a picture It is distinguished from labour, the other main although the machine and the manual transport to product the productive. element in production, and its reward takes the form of profits, whereas labour receives wages

The modern system of industry is called the capitalist system, because large supplies of capital are necessary to its existence. The objection of Socialists is not to capital as such,

but to the concentration of large blocks of capital in a few hands

CAPITAL DUTY is the term used for the duty payable when a corporation or public company raises money The rate is one per cent. on share capital and ; per cent on money raised as loan

CAPITAL LEVY IN A tax on the capital of In Great Britain, after the living persons In Great Britain, after the Great War, a special tax on capital accumulated during the var was suggested and a committee reported that it was feasible, but the Government declined to carry it out. In 1921 a levy on capital was enforced in Italy

Capital In architecture the uppermost shaft and the superstructure. In the simplest forms, as in some primitive Egyptian columns, the capital consisted of a thin square block on the top of the shaft, but more ornate and elaborate capitals are seen in Greek and Roman columns

Capital Punishment Infliction of death as a punishment for crime In most lands death was long the recognised penalty for murder and much less serious crimes In Great Britain it could be inflicted for stealing In the 19th century laws were passed by which the death penalty was reserved for murder, treason and piracy. In other European countries there has been also a tendency to limit it to serious offences and some, the Netherlands for instance, have abolished it.

Capitol Name meaning head, and derived from the Capitoline Hill at Rome Thereon stood Rome's chief temple, dedicated to Jupiter, and regarded as the most important part of the city. The site is occupied by the Campidoglio, a building designed by Michael Angelo and including the Capitoline and other

In the USA the word capitol is used for the buildings where the legislatures nicet, and in the chief cities of the various states as at

Washington

Cap Martin Pleasure Cap Martin Pleasure resort of France It is on the reached from Mentone The name is that of a cape, which is nearly 250 ft high It is a popular winter resort

Caporeito Village of Italy It is on the Isonzo and gives its name to a battle tought here in Oct and Nov, 1917, during the Great War On Oct 23, the Austrians, reinforced by some Germans, attacked the Italians along a wide front, and drove them back on the Tagliamento and then on the Playe Gorizia and a large part of northern Italy were occupied by the Austrians and the Italians lost about 200,000 men

industrial purposes It is the result of saving | and was an independent kingdom before the opening of the Christian era During the reign of Tiberius (A D 17) it became a Roman province Its chief city then was Mazaca, called by the Rom in Cæsarea

Capri Island of Italy Situated in the Bay of Naples, 21 m from that city and 5½ sq m in area, it is noted for its mild climate and beautiful scenery. There are some famous grottos or caverns, especially the Blue Grotto. The industries are fishing and vine growing. The Roman emperors, Augustus and Tiberius, resided here, and there are remains of their villas. Pop. 4000.

Capricorn Tropic of Southern limit of the Torrid Zone, latitude about 231 S It is named from the zodiacal constellation thought to resemble goat's horns

Term used to describe a lealer Captain In the fighting sorvices a captain holds a definite rank In the navy a captain ranks with a rear-admiral and commands one of the large ships He wears on his sleeve four stripes of gold braid with a loop

In the army a captain ranks below a major and above a lieutenant In the infantry he commands a company or is the second in In the artillery and cavalry he commands a battery or a squadron His is shown by three stars on the shoulder His rank Inthe air force a group captain ranks with a captain in the navy and a colonel in the army.

Every merchant ship has a captain who is by law the master of that ship and has special responsibilities and duties towards the pas-He has power to take sengers and the crew any measures necessary to maintain discipline

Capua Ancient city of Campania, Italy. Situated 17 m north of Naples, it became the wealthiest city in S Italy After the Battle of Cannae it revolted from Rome and joined Hannibal, but was retaken and severely punished Sacked by Genseric, King of the Yandals, in 455, it was destroyed by the Saracens in 840 The modern village contains remains of a Roman amphitheatre

apuchin Mendicant order of Fran-ciscan monks Founded by Matteo di Bassi in Italy in 1528 they take their name from the capuce or capuchen, a pointed hood or cowl They sought to restore the old severity of the institutes of S Francis, which had been relaxed by Pope Innocent IV
They must live by begging, and must not use
gold or silver to decorate their altars, their
chalices being made of pewter. The order has

A type of monkey is called the Capuchin monkey Several species are found in the hot monkey Several species are found in the hot parts of America and they will live in captivity in Britain The males are usually bearded and both sexes vary much in colour

Carabinier Originally a soldier armed with a carbine or short musket Carabiniers were cavalry and first musket appeared in the British Army in the 17th century The 6th Dragoon Guards, founded in 1692 were called the Carabiniers or Carabineers After the World War this regiment was amalgamated with the 3rd, which now bears the title of Carabiners

Caracal (Fells caracal) Species of lynx-found in many parts of Africa and S Asia It is a small, fierce, carnivorous animal, about 2 ft long and averaging 10 in Cappadocia In ancient geography, a district of Asia Minor. It had different boundaries at different times lower parts, two white spots near each eye, and tapering black ears

Caracalla Roman emperor Born at Lyons in 188, his name was he called himself Marcus Born at Bassianus, but he called himself Marcus Aurolius Antoninus His nickname comes from the Gallic cloak, or caracalla, which he wore. In 211 Caracalla and his brother, Gaeta, were proclaimed joint emperors, but in 212 Caracalla murdered Gaeta and a great number of his friends and adherents, and in 217 he was him self murdered at Edessa. In 212 he declared all freeborn inhabitants of the empire to be Roman citizens

Caracas Capital of Venezuela It is 7 m. La Guaira on the Carlbean Sea Between the two is a railway line The buildings include the capitol and law courts, also a cathedral and many churches, a university, an opera house and a pantheon Independence Park is the largest of the public parks and gardens It is the commercial centre of the republic. Pop

Caractacus King of the Silures, After defy ing the Romans for about nine years, he was defeated in a battle near the Wrekin about A D He took refuge with Cartamundua, Queen of the Brigantes, but she handed him over to the Romans He was taken to Rome and Tacitus tells how nobly he bore himself in cap tivity The Emperor Claudius pardoned him and he disappeared from history

Caramel Brown colouring matter often known as burnt sugar It is produced from glucose or sugar by heating A small quantity can be made by heating sugar and stirring continuously until the requisite colour is obtained, when it can be diluted with hot water For commercial purposes glucose is used in the manufacture with a certain quantity of ammonium chloride and ammonium carbonate—It is subjected to a slow boiling process and diluted with water to liquid form. It is largely used in colouring confectionery, food and spirits The name is also given to a popular form of sweetmeat.

Carat Name given to the standard of weight for precious stones and to the standard of fineness of gold The carat weight is equal to 317 grains Troy, or four The carat weight is equal to 317 grains 170y, or four diamond or carat grains. As a standard of purity and fineness of gold, the pure metal is said to be 24 carat, but standard gold for coinage, wedding rings, and so on contains a small percentage of base metal and is termed 22 carat Other grades of purity are 18, 15,

12 and 9 carat

Caravaggio Michelangelo Amerighi Da Caravaggio, in Lombardy, in 1689, he worked in Venice and Rome, and at Naples, where he founded a school of painters who were greatly influenced by the natural as opposed to the ideal, way in which he treated his subjects ideal, way Having killed a man in a quarrel, he was forced to leave Rome and was only pardoned just before his death in 1609 His "Christ and the Disciples at Emmaus" is in the National Gallery, London. "The Entombment" and "S Sebastian" are in Rome

Caravan Group of persons travelling together on a long journey The word is Persian and caravans originated in the east. For thousands of years lourneys across the deserts of Asia and Africa were made by caravan, as to some extent they are to day Many of the travellers were pilgrims, others were traders, and camels were a prominent! feature of the caravan. The caravans took certain known routes and on these were places at which they could rest, called caravanserais They were unfurnished, but were able to give shelter to a large number of men and beasts

In England a caravan is a vehicle in which people live while moving from place to place The gypsies live in caravans, and caravan holi days are popular These caravans are mainly horse drawn, but motor caravans are increasing

Caravel Kind of ship A Spanish word, it was used in the days of sailing ships for one with broad bows and a high narrow poop It had three or four masts and lateen sails on the after masts The word was also employed for a small boat used by French fishermen

Caraway (Carum carut) Biennial her-baceous plant of the order Umbellyerae It is native in north and central Umbelliferae Combetifierae 10 is native in notion and contact Europe and Asia, and is found wild in waste places in England The minute fruits are the caraway seeds used in cooking and confectionery, and in the manufacture of the liqueur called kimmel Distilled caraway oil is used medicinally as a stomachic and a carminative

Carbide Compound formed by the union of carbon with certain metallic elements. It is made either directly or indirectly by fusing metallic oxides with an excess of carbon at a high temperature. The best known of these compounds, calcium carbide, used for making acetylene, is prepared by heating a mixture of lime and coke in an electric furnese. Iron carbide formed by the electric furnace Iron carbide, formed by the fusion of iron with carbon, is present in steel and contributes to the hardness of the metal

Carbohydrates Term used for a group of organic substances containing carbon with hydrogen and oxygen in the same proportions as in water These compounds form valuable heat and energy forming foodstuffs and are of vegetable origin, the most important being the sugars and starch There are three classes of carbohydrates the monosaccharoses, such as dextrose, the disaccharoses, such as cane sugar, lactose and maltose and the poly saccharoses, as starch and cellulose

Carbolic Acid Organic compound also known as phenol compound It is obtained from coal tar by distillation The distillate is freed from naphthalene and other hydrocarbons and the impure acid thus obtained is further distilled and purified to form a mass of colourless crystals which readily absorb water from the air, producing a pinkish solution Carbolic soid is a strong antiseptic and disinfectant, and is used in the manufacture of picric and salicylic synthetic resins and plastic substances

Carbon Element having the atomic weight 12, and denoted by the symbol O It is abundant in nature as a carbonate, in air as carbon dioxide, and forms the basis of animal and vegetable life It occurs in crystalline form as the diamond, also as graphite, and in amorphous form as charcoal, which, however, is impure Carbon is in soluble in all solvents and infusible except at very high temperatures Our chief sources of power light and heat are from forms or com pounds of carbon, such as coal, petroleum and alcohol Charcoal and other amorphous forms have great absorbent power, and are powerful reducing agents in metallurgical operations Carbon dioxide, or carbonic acid gas (CO,),

is found in the atmosphere and is produced by respiration Where allowed to accumulate, as in coal pits, where it is called choke damp, or in caves or disused cellars, it will cause death, as human beings cannot inhale more than 15 or 20 per cent. of it and live A smaller amount will cause discomfort, hence the necessity for fresh air to dispel it, especially from orowded rooms In solid form carbon dioxide resembles snow in appearance and is used as a caustic in surgical work and for refrigeration in industry, eq, in the ice-cream industry

Carbon monoxide, or carbonic oxide (CO), is also poisonous. It is created by burning charcoal, and if this is done in a closed room death will take place. It is also given off by

geysers and the engines of motor cars

Carbon bisulphide (CS<sub>2</sub>) is a liquid It is used by chemists for recovering sulphide from ore and employed to kill noxious insects and germs and as a poison for vermin

Carbonate Salt resulting from the action of carbonic acid upon various bases Many carbonates occur in nature, the chief being carbonate of calcium represented by chalk, limestone and marble, and the carbonate of magnesium and calcium in the form of dolomite Carbonates of sodium occur as natural deposits or in brines, and form one of the sources of soda Potassium carbonate, or potash, is another compound of importance, and various carbonates of metals are used as ores

Carboniferous System

Name given to the series of strata lying above the Devonian and below the Permian systems of rocks. It consists of three divisions at the base, the carboniferous limestone, a series of limestones and shales of deepwater origin, next the millstone grit consisting of grits, sandstones and shales, and then the overlying coal measures composed of sandstone, fireclays, ironstones and coal seams. These upper and middle beds are of shallow water origin.

Carbonising Term applied to the process by which organic matter is reduced to a state of carbon. In the manufacture of briquettes a carbonising process has been adopted for obtaining a smokeless fuel from finely powdered coal. High temperature carbonisation is carried out in the production of coke and important by-products By low temperature carbonising, coalite and other free-burning and smokeless fuels are obtained as a substitute for ordinary coal, in addition to valuable by-products

Carborundum Abrasive of extreme hardness It is composed of silicon carbide and is prepared by heating at a high temperature in an electric furnace a mixture of sand, coke and sawdust, with salt as a flux. It is infusible, unaffected by acids, and in hardness comes between the diamond and corundum. The toughness and angularity of its grains render carborundum a valuable abrasive for many purposes, either in the form of powders in varving grades, discs, or hones. In addition it is used as a refraetory lining for furnaces.

Carbuncle Local inflammation of the tissues of, and beneath the skin More severe than boils (qv), carbuncles come on the back of the neck and the lower part of the body The swelling is hard and usually very painful, while with elderly people it is

often fatal A similar complaint in animals is called anthrax Surgleal treatment and hot antiseptic poultices are required A wick of sterile gauze inserted into the cavity after incision will ensure free drainage Carbuncles often occur in cases of diabetes

The stone called the carbuncle is a garnet cut in a round or oval form. At one time it meant the ruby or some other red stone

Carburetter Apparatus used in motor converting petrol or other hydrocarbons into a gaseous or finely divided state to form with the air an explosive mixture. There are many kinds in use, but practically all are of the spray type with a float feed. A fine jet of petrol is sprayed into the mixing chamber, the supply being governed by a needle valve attached to a float in the feed chamber. Air is admitted to the mixing chamber, and the mixture of air and petrol vapour passes to the engine cylinder by way of a pipe furnished with a throttle valve

Carcassonne City of France It stands on the Aude, 57 m from Toulouse and is a port on the Canal du Midi The old town is on a hill or the right bank of the river, the new town is on the left The city has two cathedrals, a citadel and a museum S Vincent is an interesting church There is a trade in wine and other produce and some manufactures Carcassonne is famous for its fortifications, which give a perfect idea of a fortified town of the Middle Ages Along the ramparts are 54 towers and two gates Pop 30,000

Carchemish Ancient capital of the Hittites Its site is now identified with the ruins of Jerablus (a corruption of Hierapolis) on the Euphrates in Syria Carchemish, the fortress of Camos, occupied an important strategic and commercial position Treasures found in the ruins are in the British Museum

Cardiff City and seaport of Wales, and county town of Glamorganshire It stands on the Bristol Channel at the mouth of the rivers Taff, Ely and Rhymnev, 145 m from London, on the GW Rly The chief industry is shipping, especially the shipping of coal, for which there are extensive docks There are also flour milling, steel, copper, zinc, lead, paper and chemical works

paper and chemical works
In Cathavs Park are the National Museum
of Wales, the city hall and the law courts
Near are the University College of S Wales
and the headquarters of the University of
Wales Llandaff with its cathedral is within
the city boundaries There is also a Roman
Catholic cathedral and an archbishop

Cardiff is a broadcasting station. It has a famous Association football club that won the Association Cup in 1927 and its Rugby football club is noted. Races are held here. Pop. (1931) 223.648

Cardigan Borough and market town of Cardiganshire, also the county town It stands on the Teiß, 116 m from Cardin, on the G W Rly Pop (1931) 3309

Cardigan Earl of English title borne Marquess of Ailesbury In 1661 it was given to a rovalist, Sir Thomas Brudenell, and it remained an independent title until 1868 James Thomas, the 7th earl (1797-1868), led the Light Brigade at Balaclava. His widow, who survived until 1915, published some rather

Cardigan Bay Large bay formed by the coast of Wales It is 55 m from N to S and receives the Rivers Teifl, Aeron, Ystwyth, Dovey and Mawuddch Aberystwyth is the chief place

Cardiganshire County of Wales. In the centre of the country, it has a coastline of 50 m on Cardigan Bay and covers 692 sq m Cardigan is the Bay and covers 692 sq m Cardigan is the county town, but Aberystwyth is the largest, others are Lampeter, Newquay and Aberayron The rivers are the Dovey, Teifi, Ystwyth and Rheidol It is almost wholly an agricultural In the north are mountains and some magnificent scenery, notable spots Plynlymmon and the Devil's Bridge spots being Pop (1931) 55,164

Cardinal Highest dignitary, save only the Pope, of the Roman Catholic Church Cardinals are chosen by the Pope and together they form the college that rope and together they form the college that elects a new Pope They number about 60, 70 being the full complement of the college, and are taken from nearly all nationalities, but Italians are usually in the majority A red hat and a scarlet biretta are the signs of his rank.

The Cardinal numbers are 1, 2, 3, etc, as opposed to the ordinal numbers, first, second,

The Cardinal virtues are generally con sidered to be justice, prudence temperance and fortitude They were declared such by the Greek and other early philosophers and later were distinguished from the Christian virtues of faith, hope and charity

Cardinal American song bird of the finch family The male has a bright red plumage, black feet and pointed crest The female is less bright in colour The cardinal is a popular cage bird

Carding Process by which cotton fibres broken parts and arranged in a more or less parallel manner, preparatory to the spinning of cotton yarn. This was done formerly by using teazel heads but these were supersoded by the use of flat cards set with brush like teeth Various forms of carding machines are used one type having a series of rollers. used, one type having a series of rollers covered with fine metal teeth

Cardington Village of Bedfordshire on the L.M.S. Rlv. At the aircraft works to the R. 101 Section 100 Pt. on the L M.S Rlv At the aircraft works here the R 101 was built Pop 400

Cardiograph Instrument used in medical practice for recording the character and movements of the heart It usually consists of a cup shaped appliance containing a spring, which when pressed over the heart conveys the movements of the organ to a diaphragm from which a lever passes to a revolving drum upon which a tracing is made

Cardross Industrial district of Dum bartonshire, on the Clyde, 4 m. from Dumbarton, on the LNE Rly There was once a castle here in which Robort Bruce died in 1329 The title of Lord Cardross is borne by the cldest son of the Earl of

Cardwell Town and scaport of Queens |

startling Recollections in 1909 In 1868 the of the state, it stands on Rockingham Bay, title passed to the Marquess of Ailesbury and has since been borne by his eldest son

Brisbane. It has a good harbour and fishing for the passent for t is the main industry Pop 3500

> Cardwell Viscount. English politician Edward Cardwell was born at Liverpool, July 24, 1813, and had a distinguished career at Oxford In 1842 he was elected an MP as a follower of Sir R. Peel. As Secretary for War 1868 74 he introduced the principle of the linked battalions and short service and abolished the purchase of commissions In 1874 he was made a viscount and he died Feb 13, 1886
>
> Carew about 1598, he went to Oxford

> and then studied law in London He travelled and was much at the court of Charles I died in 1645, leaving many short poems marked by beauty and tenderness

Carey William English missionary Born in Northamptonshire, Aug 17, 1761, he was apprenticed to a shoemaker, but later became a minister, helped to found the Baptist Missionary Society and in 1793 went to India. He obtained a wide knowledge of Indian languages, translated much of the Bible and compiled a number of grammars and dictionaries For nearly 30 years Carey was Professor of Oriental languages at Fort William College, Calcutta. He died in India, June 9, 1834

Village of Northumberland Carham Village of Northumberiand It is on the Tweed, 19 m from Berwick, on the L N E Rly Here in 1018 the Scots, under Malcolm II, defeated the English.

Caribbean Sea Part of the Atlantic most enclosed by the coasts of S America, The Strait of Yucatan connects it with the Gulf of Mexico and the Panama Canal leads from it into the Pacific Ocean Its extreme length is 1500 m. The name is derived from the Caribbee Islands which include Guadeloupe, St. Lucia and Dominica

Caribou Variety of reindeer It is found in Canada and Greenland and is sometimes known as the American reindeer Of the two species, the woodland is found in Canada proper and the barron ground in the Arctic regions Unlike the reindeer, the caribou has not been domesticated

Caricature Drawing or description of a person which is deliberately exaggerated or distorted so as to produce a ridiculous effect

Pictorial caricatures were very common in the 18th century and many were very coarse James Gilray and Thomas Rowlandson were noted caricaturists of that time In the 19th and 20th centuries caricatures became more refined and great eleverness was shown in drawing them Max Beerbohm is the prince of English caricaturists The caricatures of H K Brown (Phiz) and Leslie Ward (Spy) are famous Many clever caricatures have appeared in Punch, notably from the pencils of John Leech, Harry Furniss, Du Maurier and others Caran d'Ache is perhaps the most famous of the French caricaturists and Louis Raemakers of the Belgian school Germany has produced some clever workers

Caries Inflammatory disease of bone It corresponds to ulceration of the softer tissues and results in the death of the part affected Its commonest form is dental caries, in which case the decay of the tooth is

Carillon Set of bells upon which tunes can be played This is done by the agency of a keyboard mechanism set in motion by hand or electric power A carillon differs from chimes as the bells are fixed instead of swinging and are struck on the outside by hammers

There are some famous carillons in the Netherlands, notably at Bruges In England there is one at Loughborough, a war memorial One made for Wellington, New Zealand, was for a time in Hyde Park, London, in 1930

Carisbrooke Town of the Isle of Wight It is a mile from Newport, on the S Rly It is famous for its castle, long the residence of the Governor In 1647-48 Charles I and his children were in prison here

Alexander, a son of Princess Beatrice, took the title of Marquess of Carisbrooke when made a peer in 1917 He married Lady Irene Denison, a daughter of the Earl of Londes-borough Pop 4767

Carline Thistle (Carlina vulgaris)
Biennial plant of the order Compositac In Great Britain it is common on dry fields and sandy uplands The flowers are purple with spiny bracts, and a centre of yellow bristles.

Carlingford Market town and watering place of Louth, Irish Free State. It stands on the south side of Carling-State It stands on the south side of Caring-ford Lough, 10 m. from Dundalk, on the GN Rly The industries are fishing and catering for visitors Carlingford Lough, an opening of the Irish Sea, is 10 m long and 2 m wide, between Down and Louth The title of Lord Carlingford was borne of the carried Parkinger Fortegory (1892)

The title of Lord Carlingtora was norme by Chichester Samuel Parkinson-Fortescue (1823-98), from 1874 to 1898 He was MP for Louth, 1847-74, and filled the offices of Chief Secretary for Ircland, 1865-66 and 1868-70, President of the Board of Trade, 1871-74, Lord Privy Scal, 1881-85, and Lord President, 1883-85 He died Jan 30, 1898, when his title became

extinct. Carlisle City, borough and county town of Cumberland. It is 299 m from London and stands at the union of the little Rivers Eden, Caldew and Petteril It is on the LNE and LMS Rlys In addition to railway works the industries include the making of biscuits and woollens The chief buildings are the cathedral, which, although small, has some beautiful features, and the castle with its keep, one of the finest in England. During the World War, the experiment was tried of putting the licensed houses under the control of the state This control still continues Pop (1931) 57 107

Carlisle Earl of English title the family of Howard English title borne by In 1632 James Hav a courtier, was made Earl of Carlisle by Charles I The title became extinct

in 1660

In 1661 Charles Howard was made Earl of Carlisle and the title is still held by his des-Carisie and the title is still held by his descendants Frederick, the 5th earl (1748-1825), was Lord-Lieutenant of Ireland (1780-82) George, the 7th earl (1802 64), was Chief Secretary for Ireland, 1835-41, and Lord Lieutenant, 1855-58 and 1859-64 The carl's seats are Naworth Castle, Carlisle, and Castle Howard, Vorkshire, and his eldest son is called Viscount Morneth called Viscount Morpeth

caused by acids arising from decomposed food-stuffs destroying the enamel and dentine, followed by bacterial action upon the pulp followed by bacterial action upon which tunes

Cartilon Set of bells upon which tunes

Cartilon Set of bells upon which tunes By the Salic law his brother Carlos following and was crowned The Carlists started a civil war which lasted until 1839, but Isabella retained the crown In 1869, and again in 1868-70 and 1872-76 they were in arms, but met with no success Since then the party has been quiet, although the claim of the descendants of Don Carlos is still in being

Carlos Name of several Spanish princes Don Carlos (1545-68) was a son of Philip II, King of Spain He was eccentric and perhaps insone, and his death on July 1568, has been attributed to foul play Schi Schiller and others have written dramas on him.

A later Don Carlos (1783-1855) was a brother of Ferdinand VII, King of Spain, and from him the Carlists took their name He claimed the Spanish throne and the claim was carried on by his son, Don Juan, then by his grandson, another Don Carlos, who died July 18, 1909, then by the latter's son, Don Jaimé

Carlos I. King of Portugal. Born Sept. 28, 1863, he succeeded his father, Louis, as king in 1889. In 1907 he suspended the constitution and on Feb 1908, he was murdered in Lisbon His elder son, Louis, was killed with him, his younger son, Manoel (q v) was deposed in 1910

Carlow County of the Irish Free State In the SE of Ireland, it is mainly flat, but there are hills in the south Its area is 346 sq m, making it the second smallest county of Ireland The Barrow and the Slaney are the principal rivers, the railway system is the GS, and Carlow is the county Pop (1926) 34,176

Carlow Market town and urban district of the Irish Free State, also the county town of Co Carlow It is 56 m from Dublin by the GS Rly, and stands on the Barrow Here are a Roman Catholic cathedral Barrow Here are a Roman Catholic and St. Patrick's College Pop 7163

Carlton Urban district of Nottingham-shire It is 3 m from Notting-ham, on the L M S Rly It has railway works and other industries Pop (1931) 22,336

Carlton House Formerly a London Built by Built by Lord Carleton, it faced St James's Park and, about 1730, was bought by Frederick, Prince of Wales, the father of George III Later it was the residence of another Prince of Wales, afterwards George IV It was pulled down in 1827 The name is perpetuated by the Carlton Club, Carlton Gardens and Carlton House on the site of the house and grounds. Terrace on the site of the house and grounds

The Carlton Club, the chief club of the Unionist party, is at 94 Pall Mail It was founded in 1832 There is also a Junior Carlton Club at 30 Pall Mail

Carluke Town of Lanarkshire It is LMS Rly Around are coal and ironstone LMS Rly mines, and the town has engineering and other industries Pop 10,200

Scottish historian. clefechan, Dumfries-Thomas Carlyle Born at Ecclefechan, Dumfriesshire, the son of a mason, Dec 4, 1795, he was educated at Annan and at Edinburgh University He became a schoolmaster, but found time to study German and in 1823 began to Carlyle

write articles in The London Magazine and biographies for an encyclopaedia, he published also translations of some of Goethe's writings In 1834 he settled in London There he passed the rest of his days He had already published Sartor Resartus and The French Revolution,

but he had yet to make his name In 1837 Carlyle began a series of lectures in London on German literature, followed by other subjects, and these drew attention to his powers in easier circumstances, he wrote Heroes and Hero Worship, 1841, Past and Present, 1843 Latter Day Pamphlets, 1850, and The Life of John Sterling, 1851 in 1845 he issued Oliver Cromwell's Letters and Speeches, he issued Other Crombett's Letters and Speeches, and between 1858 and 1865 appeared the massive volumes of his History of Frederick the Great. He died Feb 4, 1881

In 1826 Carlyle married Jane Baillie Welsh (1801 66)

The relations between the two

have been the subject of much discussion, but the truth seems to be that, both being geniuses, neither was easy to live with

neither was easy to live with Carlyle was a great and powerful thinker and rightly exercised an enormous influence Too prejudiced to be the perfect historian, he yet had an extraordinary care for detail, combined with a magnificent power of expression, that made some of his descriptions, especially in The French Revolution, immortal Carlyle's residence, 24 Cheyne Row, Chelsea, Lordon is now a wife and company to the nubble

London, is now a museum open to the public

Carman William Bliss Canadian poet Brunswick, April 15, 1861, he settled in the United States and was for some time editor of The New York Independent His works include Songs from Vacabendent His works include The New York Independent His Works include Songs from Vagabondage, Songs of the Sca Children, By the Aurelian Well, The Rough Riders, A Painted Holiday, Earth Deities, Ballads and Lyrics, Daughters of Dawn, April Airs, and Sappho, a translation of the frag ments He died June 8, 1929

Carmarthen Borough and county town of Carmarthenshire county It stands on the Towy, 8 m from the sea, and is served by the G W Rly The buildings include St David's church and the grammar school The town has some manufactures and is an agricultural centre, fairs being held Pop (1931) 10 310

Carmarthen Bay is an opening of the Bristol Channel It extends from St Gowans Head to Worms Head

Carmarthenshire Wales In the In the south of the county between Pembrokeshire south of the county between remirrorships and Glamorganshire, it has a coastline on Carmarthen Bay and covers 919 sq m Carmarthen is the county town, others are Lianelly, Llandovery, Kidwelly, Llandilo and Burry Port. The county is mainly agricultural, but around Llanelly in the SE are coal mines. The Towy is the chief river coal mines Pop (1931) 179,063

Carmel Mountain ridge in Palestine Terminating in a steep promon tory in the Mediterranean, its highest point is 1800 ft. and it extends for about 14 m It is famous as the scene of Elijah's encounter with the prophets of Baal (1 Kings xviii.) Its native name is Jebel Mar Elyas, or the Mount of Elliah

Carmelites Order of mendicant friars They wear a small brown woollen habit (scapulary) over their shoulders, and are also called White Friars from the white cloak which formed part of their dress

order was founded by one, Berthold, a Calabrian, who, in the middle of the 12th century, migrated to Mount Carmel, where he built a cottage and a chapel Carmelites practise cottage and a chapel Carmelites practise total abstinence, strict fasting, silence and poverty

The Carmelites had a priory in London and the name is preserved in Carmelite Street, Blackfriars The order has many houses throughout the world for both men and women

Carminative Name given to a drug which, by stimulation of the stomach and intestines, assists the ex pulsion of gases Aromatic substances, cam phor and volatile oils, and valerian are carminatives

Carmine Crimson pigment Obtained from the cochineal insect, it is used to tint fine fabrics, feathers, icing sugar,

Carnac Town in the department of Morbihan, France Near is the largest group of megalithic monuments known It consists of menhirs or prehistoric upright stones, dolmens and tumuli The stones are set in the ground at their smaller ends, some of them being as high as 16 ft. In the most considerable tumulus excavations have revealed the presence of a subterranean dolmen, with hones are and newleases. with bones, axes and necklaces

Carnarvon Town of Cape Province, S Africa. It is 505 m from Capetown, on the railway line to Calvinia. It is the centre of a sheep raising and corn growing district Pop 2150

Carnarvon since 1793 by the family of Herbert. Previously it had been held by the families of Dormer (1628 1709), and Bridges (1714 89) In 1793 Henry Herbert, a grandson of the 8th Earl of Pembroke, was made Earl of Carnarvon. His descendant, Henry Howard, the 4th earl, was Colonial Secretary, 1866 67 and 1874-78 In 1885 86 he was Lord Lieutenant of Ireland His son George, the 5th earl (1866 1923), was connected with Howard Carter in opening the tomb of Tutankhamen The earl's eldest son is called Viscount Porchester and his seat is Highelere Castle, Newbury seat is Highelere Castle, Newbury

Carnatic Former name of a country on the east coast of India It is now included in the Government of Madras, having been conquered at the end of the 18th century It has, perhaps, the hottest climate in India There are many indications of the wealth and high stage of civilisation reached by the former inhabitants

Carnation (Dianthus caryophyllus)
Perennial herbaceous plant

of which there are many varieties

Plants can be obtained from seed sown in April and May, and seedlings planted out to bloom the following year Shoots of established plants can be layered in July or cuttings struck in autumn after flowering is over Perpetual or tree carnations for winter blooming in a green house can be propagated by cuttings in Feb or in the autumn They should be struck in silver sand and potted up when rooted

Carnedd Dafydd Mountain of Caer This height and Carnedd Llewellyn, quite near it, are nearly as high as Snowdon, Dafydd being 3426 ft. and Llewellyn 3484 ft. high

Carnegie Andrew Scottish philanthro pist Born at Dunfermline, The Nov 25, 1835, he was taken by his father to the and at once the boy began to earn his living In a short time he became a telegraph clerk with the Pennsylvanian Rly Co, then a sectional superintendent He was engaged in railway work during the Civil War Presently he opened iron works at Pittsburg, and was seen at the head of a fleurishing concern. soon at the head of a flourishing concern man of great determination and energy, in a few years he was the head of an enormous combine In 1901 he retired, and the Carnegio companies became the nucleus of the US Steel Corporation He made his residence at Shibo Castle in Scotland, where he lived until his death, Aug 11, 1919 Carnegle wrote several books, including Triumphant Democracy, 1886, and The Gospel of Wealth, 1900

He gave away during his lifetime nearly the

whole of a fortune estimated at £100,000,000 Peace and libraries were two of his favourite causes Many libraries in Britain and the U.S.A. were founded with his money He founded the Carnegie endowment for international peace, and built the Palace of Peace at the Hague, established hero funds in several countries and endowed his birthplace, Dunfermline, with substantial sums for civic improvements He established a fund for aiding university students in Scotland, and founded pension funds and Carnegie Institutes at Washington and Pittsburg In both Great Britain and the United States he established trusts which devote the interest on their capital to various The headquarters of philanthropic schemes the Carnegie United Kingdom Trust are at Dunfermline, and one of its benefactions is a large sum to provide playing fields

Carnelian Coloured variety of quartz Typically bright orange red, it varies from vellow to brown. Used as a semi-precious stone largely for signet rings It is found in India, Brazil and Siberia Used as a

Order of mammals compris-Carnivora or description of mammas compris-teeth adapted for a flesh diet Most are terrestrial in habit, but a few families are adapted to a marine life The terrestrial carnivora form three natural groups the dog family, the bear, raccon and marten family, and the cats, civets and hyenas. The marine carnivors, or pinnipeds, comprise the seals, sea lious and walruses

Carnot Lazare Nicolas Marguerite French soldier Born May 13, 1753, he entered the engineering branch of the army In 1791 he was elected to the National Assembly, and was responsible for reorganising the army From 1795-97 he was one of the five directors, Minister of War in 1799 In 1801 he retired, but appeared again in public life in 1814 when, as governor, he defended Antwerp for Napoleon He was Minister of the Interior in 1815, but on the return of the Bourbons he went again into exile He died at Madgeburg, Aug 2, 1823

Carnot Marle François Sadi French statesman Born at Limoges, Aug 11, 1837, he became a military engineer and served in the war of 1870 71 In 1876 he was elected to the Chamber of Deputies and in 1885-86 was Minister of Finance In 1887 he was elected President, and held that position until he was killed at Lyons by an Italian anarchist, June 24, 1894

USA in 1848 They settled in Pennsylvania | being built in terraces commanding magnificent sea views The sands are extensive and there are fine golf links The Bell Rock and Lighthouse lie off the coast Pop (1931) 4806 house lie off the coast

Carnwath Mining village of Lanark-in a coal mining area Pop 6547 The title of Earl of Carnwath has been borne

by the family of Dalzell since 1639. The 1st earl was in attendance on Charles I at Naseby

Carob (Ceratonia siliqua) Name for the in Mediterranean countries, its long fieshy pods, sweet in flavour with hard bean-like seeds, are used as cattle food. They are supposed to be the locusts on which S. John the Baptist fed in the wilderness

Carolina North One of the southern states of the USA The capital is Raleigh and the chief city mington Its boundaries are Virginia (N), the Atjantic Ocean (E and SE), South Carolina and Georgia (S), and Tennessee (W) It covers 52,426 sq m, and its populative of the second of the mington tion contains a high proportion of negroes The chief agricultural products are Indian corn, cotton, tobacco and rice It was one of the 13 original states and seceded from the Union in 1861, but was readmitted in 1868 Pop (1930) 3 170,276

Carolina South One of the southern capital is Columbia and the chief city Charleston Its boundaries are N Carolina (N and N E), the Atlantic Ocean (S E), and Georgia (W and S-W) It produces rice and cotton The chief rivers are the Santee and the Savenneh Most of the high literate are prepries Most of the inhabitants are negroes annah One of the 13 original states, it was the first to secode and so bring about the Civil War Its area is 30,989 sq m Pop (1930) 1,738,765

Caroline Name of two English queens daughter of the Margrave of Brandenburg-Ansbach, was married in 1705 to George, Electoral Prince of Hanover, later George II of Great Britain An able and educated woman, she exercised great influence, and her steady support of Sir R Walpole was very useful to him She died Nov 20, 1737, 22 years before her husband Greating who married her course.

Caroline, who married her cousin, George IV, when he was Prince of Wales in 1795, was a daughter of the Duke of Brunswick They had one child, Charlotte, and after her birth they separated In 1820 Caroline rebirth they separated in 1020 caronic turned from Italy to England to assert her rights as queen A bill was introduced into Parliament to dissolve her marriage, but was withdrawn. The queen tried to enter the control to the control but Westminster Abbev for the coronation, bu was kept out by force She died Aug 7, 1821 hnt

Caroline Islands Archipelago in the Pacific Ocean There are about 549 small islands, chiefly coral, the most important being Yap and Ponapi. The principal export is copra The name is generally used to include the Pellew name is generally used to include the Pellew Islands In 1899 they were sold by Spain to Germany and were occupied by an Australian force on Sept 12, 1914 Since 1919 they have been administered by Japan under mandate from the League of Nations They cover 390 sq m Pop 56,000

Carolingians Name given to those of Angus, Scotland It is 10 m from Dundee on the LNE Rly The town stands near the shore, the higher part the ancestor of Charlemanne The large of the Franks town stands near the shore, the higher part the ancestor of Charlemanne The large of the family of Charles Martel,

ceeded the Merovingians in the 8th century, and ruled the West Franks (France) until 987, and the East Franks (Germany), till 911

Carp It is sometimes eaten It can live to a great age and feeds on vegetable matter Some specimens have been known to weigh 40 lb In the 15th century it was brought to Europe from Asia, and in the 17th introduced into the USA

The British fish is the common carp, but the leather carp and the smooth carp have been

produced by breeders

Carpaccio Vittore Italian painter Born in Venice about 1465, he ranks as one of the great Venetian painters In the Academy of that city are "The Presentation in the Temple," a series illustrating the life of S Ursula His "Virgin and Child" is in the National Gallery, London He died in 1520

Carpathians Mountain range of Europe It stretches in a great semicircle from Rumania to Czecho slovakia, nearly touching the Danube at both ends parts of the range being in Hungary and Poland The length is about 900 m, and the extreme breadth 200 It includes the Transylvanian Alps in the south and the Transylvanian Alps in the south and the Tatra Mits in the centre The Little Carpathians connect with the Alps and a further group is the Beskid Mits The highest point is Gerisdorfer in the Tatra (8740 ft) There are many passes, several carrying railway lines The mountains have great mineral wealth and some magnificent scenery

In 1914 16 there was much fighting in the passes First the Russians came through them to invade Hungary, and later the Austrians and Germans advanced into Poland

Carpeaux Jean Baptiste French soulptor Born, May 11, 1827, he studied in Valenciennes and Parls, won the Prix de Rome with "Hector and Astyanax" and a further honour with "Ugo line and His Children." He died Oct 12, 1876

Carpentaria Gulf of Opening off the N coast of Australia It lies between Capes York and Arnheim and is about 350 m across The Mitchell, Flinder and other rivers flow into it, and there are meny islands It was named after Pleter Carpentier, who was governor of the Dutch E Indies when Tasman discovered the gulf

Carpenter Alfred Francis Blakeney British sailor Born, Sept 17 1881, he entered the navy in 1896 and saw active service in Cuba and China He won a medal for saving life at sea, and recognition for inventions in navigation He led the Vin dictive in the attack on Zeebrugge and was awarded the V of From 1921 23 he commanded the Carisford and from 1921 26 was captain of the dockyard at Chatham

Carpentier Georges French boxer
1694 In 1913 he defeated the English heavyweight champlon Billy Wells, at Lens and then
at the National Sporting Club London in one
round He served in the air service in the
Great War and in 1919 won the heavyweight
champlonship of Europe by beating Joe
Beckett also in one round He met Jack
Dempscy at Jersey City in 1921, and was easily
beaten

Carpet Floor covering made of woven

mixed fabrics The use of carpets began in castern countries France was the first European country to manufacture them, and the craft was brought to England early in the 18th century These early carpets were made by hand, but in the 19th century power loom for weaving them was invented To day, all except the most expensive carpets are woven on machines The best are made in Turkey. Persia, India

are woven on machines. The best are made in Turkey, Persia, India. Most of the carpets seen in the houses of the western world to day are the inventions of French workers, and may be divided into two classes, one with a pile and the other without. Pile carpets are known as Wilton, Brussels and Axminster, according to the tyle and there are varieties of each. Carpets without a pile are called Kidderminster carpets and are usually reversible. All these are made in Kidderminster the chief English centre Yorkshive and Scotland. They are no longer made at Wilton where French workers were settled by the Earl of Pembroke about 1740 or at Axminster.

Carpet-Bagger Political slang term applied to a candidate for election in a locality in which he is a stranger especially if he is sent by a central party organisation. The term was first used in America, of speculative bankers, who started business with nothing more than they could carry in a carnet bas

could carry in a carpet bas

Carra Lake of Co Mayo, Irish Free
State It is 7 m long and amidst
some of the finest scenery in Connemara

Carrageen (Chondrus crispus) Purp lish cartilaginous seaweed, known also as Irlsh moss It is found on the coasts of Europe and N America Commercially it is washed, bleached and dried, and prepared with milk or water as a jelly for invalid use, it is also utilised in the manufacture of size It derives its name from Carrageen, on the 8 coast of Ireland, where it is abundant

Carrantuohill Highest mountain of range of Macgilliouddy's Recks, it is in Co Kerry about 10 m from Killarney, and is 3414 ft. in height.

Carrara Town of Italy It stands near the W const, 3 m from Avenza, its port It is famous for its marble, perhaps the finest in the world and much used by sculptors This is mainly white, but black and yellow are also found in the quarries here

Carriage Horse drawn travelling vehicle coaches, carriages coming into use in the 18th century There are many kinds of carriage, landau brougham, victoria wagonette, phao ton and others, some having four wheels and others two For these the carriage horse was bred. Owing to the advent of the motor car, carriages have nearly disappeared The owner must pay a licence of £2 2s a vear for a four-wheeled vehicle if drawn by two horses and £1 is if drawn by one horse For a two wheeled vehicle the licence costs 15s a year

Carrick Division of Ayrshire In the south of the county, the river Doon divides it from the north The title Earl of Carrick was borne by Robert Bruce It is now one of the titles of the Prince of Wales There is also an Irish earldom of Carrick, held since 1748 by the family of Butler Carrickfergus Market town soa port and urban dis

trict of Antrim, N Ireland It stands on gives its name to the battles fought between Belfast Lough, 9 m from Belfast, on the the Austrians and the Italians in the Great N Counties of Ireland, L M S Rly There War It lies to the N and E of the Adriatic are two harbours, and linen is made Pop Sea and before 1919 was part of Austria 4610

Carrick-on-Suir Market town and urban district of Tipperary, Irish Free State It stands on the Suir, 14 m from Clonmel on the GS Rlv Across the river is Carrickbeg Pop 5500

Carrier In medicine, a term applied to organism which carries the germs of a disease One species of mosquito is the carrier of malaria, another species is responsible for yellow fever the tsetse fly carries the germ of sleeping sickness and the rat flee the bubonic plague Persons who, without suffering from it, carry the germs of an infectious disease, which can be caught from them, are a'so called carriers

Carroll Lewis Pen name of Charles Lutwidge Dodgson, English writer Cheshire, Jan 27, 1832, he was educated at Rugby and Christ Church, Oxford, where he was mathematical lecturer from 1854 to 1881 He was ordained deacon in the Church and mathematician Born at Daresbury, of England in 1885, but did not take priest's orders. Of a reserved and retiring disposition, the delighted in the society of children, and alice in Wonderland was written for Alice Liddell and her two sisters, the little daughters of H G Liddell, dean of Christ Church It was published in 1865, and alice Through the Looking Glass in 1871 Both were illustrated the Looking Glass in 1871 Both were illustrated the Looking Glass in 1871 Both were illustrated to the Looking Glass in 1871 Both were illustrated trated by Sir J Tenniel, and have been translated into many languages and dramatised Other books for children are Sylvic and Bruno, other hooks for children are spittle and Bruno Concluded and The Hunting of the Snark He also published various mathematical works, and Principles of Parliamentary Representation He died unmarried, Ian 11, 1898, at Guildford In 1932 the centenary of his birth was celebrated

Carron Village and river of Stirling-shire The village is near Falkirk and is noted for its ironworks, opened in 1760 Carron gave its name to a naval gun, the carronade, invented by Robert Melville and made here Lighter than the ordinary gun then in use the carronade could fire a heavier ball, but its range was short

Carron Oil is a mixture of linseed oil and lime water, and is used for burns. It is named

from Carron, where it was first used

Carrot Root crop Extensively culti-root, it is used both for human food and for feeding cattle The plant was brought to Britain from Holland in the 16th century and its cultivation quickly spread The roasted and ground root is used as a substitute for coffee in some countries, and carrots are also used for distilling a strong spirit Wireworm and carrot fly are enemies of the plant,

Carshalton Urban district of Surrey on the S Rly There are an old church some on the S Rlv old fine houses and a public park. There are some industries, but it is chiefly a residential district for Londoners. The Wandle flows through it

kans, and subterranean rivers are a feature Gower a The best-known carso is in Yugoslavia and Stafford.

gives its name to the battles fought between

War It lies to the N and E of the Adriatic Sea and before 1919 was part of Austria The fighting in the Carso began in Sept.. 1916 when the Italians attacked the Austrians. At the end of the year the advantage was with the Italians In May, 1917, they attacked again and took ground and prisoners, but before the end of the year lost part of their gains

Carson Baron Irish politician Born Carson went to school at Portarlington and then to Trinity College, Dublin He became a barrister, first in Dublin and then in London, and soon made a reputation as an advocate. In 1892 he was elected MP for his university. which he represented until 1918, when he was elected for a division of Belfast In 1892 he was Solicitor-General for Ireland, from 1900-05

The leader of the Ulster Unionists in their resistance to Home Rule, Carson was closely identified with the events of 1914 In 1915 he joined the Coalition ministry as Attorney-General and in 1917-18 he was First Lord of the Admiralty and then a member of the War Cabinet In 1921 he was made a life peer and a Lord of Appeal, a post he resigned in 1929. A biography appeared in 1932 He died Oct. 22 1935

Carstairs Village and railway junction in Lanarkshire, on the Clyde, where the main L M S line forks, one branch going to Edinburgh and the other to Glasgow. Pop 1830

Cartagena City and seaport of Spain situated on the Mediterranean, 325 m from Madrid, it has a cathedral and the ruins of a citadel There is a fine harbour and from it is exported the produce of the neighbouring mines Cartagena is also a station of the Spanish navy It was founded by the Carthaginians, hence its name 97,000

Another Cartagena is a city and seaport of Colombia, on the Caribbean Sea It, too, has a fine harbour and from it much of the produce

of the republic is exported. It has a cathedral and a university. Pop. 96,981

Cartel Meaning little card, this word was used for a challenge. It then came to be used for an agreement made during the card of th a war between the combatants about such matters as the treatment of the wounded and of prisoners of war A cartel ship was a ship that sailed under such an agreement.

To day a curtel, or kartel, is a list of prices agreed to by the firms in a big industrial combine. It also refers to the combine or

trust itself

Carteret Baron English politician Born April 22, 1690, John Carteret was educated at Westminster and Christ Church, Oxford, and took his seat in the House of Lords among the Whigs in 1711 In 1719 he went as ambassador to Sweden, and on his return was made a secretary of state. He was return was made a secretary of state He was Lord Lieutenant of Ireland, 1724-30 In 1742, on Walpole's fall, he became again a secretary of state, but resigned in 1744 In 1751 he was appointed Lord President of the Council Ho died Jan 22, 1763

In 1744, on his mother's death, he became

Carso Limestone district. The formations are found in France and the Balkans, and subterrancan rivers are a feature Gower a younger son of the 1st March 1988 and 1988 and 1988 are a feature Gower a younger son of the 1st March 1988 and 1988 are a feature Gower a younger son of the 1st March 1988 and 1988 are a feature Gower a younger son of the 1st March 1988 and 1988 are a feature growth and

Carthage Ancient city of Africa, the capital of a powerful state It stood on the coast, near where Tunis now stands, and according to legend was founded by Phoenicians from Tyre, led by their queen, Dido The Phoenician settlement soon became a prosperous city, with two excellent harbours and some fine buildings and a population of nearly 1,000,000 About 300 B c Carthage was the centre of a great empire, including the Mediterranean coast of Africa, and the coast lands of Spain, Corica and Sardinia. Its commerce extended all over the known world.

Carthage was Rome's great rival The three Punic wars between them began over the possession of Sicily The first lasted from to 201 BC and the third from 149 BC to 146 BC Carthage was defeated in the first NATION BO CATURED WAS defeated in the first war, and also in the second, but only after the genius of Hannibal had tried Rome's resources to the uttermost. In the third war, after a siege lasting three years, the city was taken by Scipio and razed to the ground in 146 B C.

In the reign of Augustus, the refounded Carthage became the third largest city in the Roman Empire In 430 it was taken by the Vandals, but, though retaken by Belisarius, its glory was over, and about 700 it was destroyed by the Saracens

Carthusians Religious order It was founded by S Bruno in 1086 at Chartreux in Dauphine, France, hence Its name The members may not eat together nor speak to one another except on certain

The habit is white days.

The order was introduced in England by Henry II and still has houses in the country, one at Parkminster in Sussex They are called charterhouses, and the most notable was that in London, the buildings of which still stand Members of the school which had the charter in the London Charterhouse are was that in London, the bunding of which still stand Members of the school which had its origin in the London Charterhouse are called Carthusians At the Grand Chartreuse near Grenoble, the monks made the liqueur called chartreuse, now made at Tarragona in Spain.

Cartier was born at St Malo, Dec 31, 1494. and became a sailor. With two others he set out to explore the territory of N America, discovered the Magdalen Islands, and, on a second voyage, completed his exploration of the river and Gulf of St Lawrence, and sailed up to Montreal A third voyage, to colonise Canada met with little success Cartier died at St. Malo, Sept. 1, 1557

Cartilage Elastic tissue forming part of the skeletal structure of an animal Cartilage colls are rounded and scat tered through the matrix and the whole structure is covered by a fibrous membrane Cartilage forms elastic pads between the various bones

Cartoon Design or drawing of full size, made preparatory to the finiahed pleture Cartoons are usually drawn on strong paper and give the artist a chance to see how his ideas look. Sometimes the designs are transferred to tapestries, which are also called cartoons. Examples are the wonderful cartoons by Raphael, now in the Victoria and Albert Museum, South Kensington.

A picture, usually topical and political, in a daily or weekly paper is called a cartoon Those in Punch are the most finished of their

Low and Strube, are also celebrated Cartoons of this kind are humorous or satirical

Cartouche Old word for cartridge, used to describe a wooden recep tacle in which musket balls were carried some fireworks it is the case which holds the inflammable material

In heraldry a cartouche is a shield sometimes used by ecclesiastics of noble birth to show their bearings. In architecture it is an oval or

oblong tablet or moulding, usually containing an emblem or an inscription

Cartridge Case containing a charge of powder and shot or bullet for use in firearms. The case may be entirely of metal or of cardboard with a metal cap, and the charge may consist of gunpowder or some smokeless powder such as cordite. In a shot cartridge the pellets are of lead, but in rifle cartridges the bullet is either of lead or has a cupro nickel casing over a core of lead. The cartridge is exploded by means of a percussion can containing a fulminate compound.

Cartwright Edmund English inventor Born, April 24, 1743, in a Nottinghamshire village, he wont to Oxford and became a clergyman He was given a living at Goadby Marwood in Leicestershire in 1779 and while there invented a loom, since developed into the modern power loom. He also invented a machine for combing wool Leaving his living, Cartwright started a factory at Don caster and then one in Manchester, but neither prospered In 1809 Parliament voted £10 000 for him and he bought a farm near Sevenoaks He died Oct. 30, 1823 Cartwright's elder brother, John Cartwright (1740 1824), was a soldier and a political reformer, whose ideas were much in advance of his time

Caruso Enrico Italian singer Born in Naples, Feb 25, 1873, he studied singing and first made his name known in 1896 In 1898 he took the part of Ridolfo in La Bohème and for the next 23 years was the world's leading tenor He died Aug 2, 1921

Carver John. English puritan and leader of the Pilgrim Fathers In 1608 he withdrew to the Netherlands because of his support of Brownism and became Deacon of the English Congregational Church at Leyden In 1620 he sailed in the Mayflower, and was the first governor of Plymouth Colony In the following year he made a treaty with the Indians He died of sunstroke in 1621

Carving Process of cutting and shaping objects in wood and every Wood carving is of ancient date and at various periods has exercised great influence on sculpture The art reached a high level in Europe from the 12th to 16th centuries, especially in decorating interiors of churches In England, fine examples are seen in the work of Grinling Gibbons (1648 1720) and in the decoration of St Paul's Cathedral, London.

Caryatides Name given in architec ture to the figures of females used as columns to hold up entablatures. It is supposed that the name commemorates the overtime of the inhabitants of Caryae by the Greeks who carried off the women as captives Notable caryatides were on the Erechtheum at Athens

Casabianca Louis de French naval officer Born at Bastla, Corsica, he entered the French Navy, and helped to convoy French troops to the British kind, but those in the London daily papers by helped to convoy French troops to the British Sir F C Gould, and later by Tom Webster, American colonies then in revolt. He was

appointed to the ship *Orient*, and at the Battle of the Nile off Aboukir, when defeated, safeguarded the crew and perished with the ship, with his ten-vear-old son, Giacomo Jocante, Aug 1, 1798 Their heroism is commemorated in Mrs Hemans' poem

Casablanca Scaport of Morocco On the Atlantic coast, 60 m S of Rabat, it is the outlet for the produce of Central Morocco, including grain, hides, wool and mineral phosphates Air services connect it with Toulouse daily, with Oran bi weekly and with Dakar weekly There is a British consul Pop (1931) 161,113

Casals Pablo Spanish musician Born in 1878, he studied music in the Conservatoire at Barcelona and soon made his name as a performer on the violoncello He played in London and other European capitals, and in 1912 won the medal of the Royal Philharmonic Society

Casanova Giovanni Jacopo Italian ad-1725, he was educated in London When quite voung he embarked on a career of intrigue and hazard This led, after various European wanderings, to imprisonment at Venice, whence he escaped and was appointed to manage state lotteries in Paris More European wanderings, embracing England, Poland and Spain, followed He returned to Venice as a state spy, and then retired to Bohemia He died, June 4, 1798 Casanosa's Memoirs, in twelve volumes, are a genial account of Europe as he saw it

Casaubon Isaac French scholar Born in Genova, Feb 18, 1559, he studied in that city and in 1581 he was made professor of Greek at Geneva From 1586 to 1600 he was professor at Montpellier In 1600 he went to Paris, where Henry IV gave him a position and a pension and in 1604 made him a royal librarian In 1610 he visited England, and here, received with great honour by James I, he passed the rest of his days He died July 1, 1614, and was buried in Westminster Abbey He edited several of the classical authors

Casca A stolld, unimaginative man, he was tribune of the Plebs in 44 B c, the year in which Julius Caesar was assassinated, and struck the first blow He afterwards sided with the triumvirate in Macedonia, and shared the fate of his fellow conspirator, Cassius, being killed at Philippi, 42 B c

Cascade In electricity, a method of charging Leyden jars by connecting the outer coating of one to the inner coating of the next and so through the series

In gas liquefaction it is a method of causing a compressed and cooled refrigerant, such as carbonic acid, to flow continuously round the gas to be liquefied

Cascara Bark of the Californian buck-thorn Rhamnus purshiana
From it are prepared solid and liquid extracts of cascara sagrada (sacred bark), one of the most useful tonic aperients. The bitter taste is lessened by aromatic aids, or by admixture with glycerine.

Casein Main constituent of cheese An albumin, it is precipitated from skimmed or separated milk by the enzyme in rennet, a mineral acid, or by self curdling with lactic acid It yields a white, tasteless, amorphous, finely divided lime salt. Formalin converts it into a hard, insoluble, non in-

appointed to the ship Orient, and at the Battle | flammable substance, used as a coating of the Nile off Aboukir, when defeated, safe-cotton fabrics, paper and photographic films

Casemate Protected vault or chamber It may be a bombproof shelter for troops, hospital cases and stores or when facing lower ground, such as ditches, be loopholed for firing heavy ordnance In armoured warships it is the bulkhead protecting the main guns, and is defended by embrasures or loopholes for firing and withdrawing them

Casement Roger David Insh conspirator Born in Dublin, Sept 1, 1864, he entered the consular service and served in equatorial Africa and Brazil He was knighted in 1911 Becoming hostile to England, he was in Berlin in Nov, 1914, urging Irish war prisoners to form a brigade for service against the Allies In April, 1916, he landed at Tralee from a German ship and was arrested Tried for treason, he was found guilty and hanged Aug 3, 1916

Cashel Market town and urban district of Tipperary, Irish Free State It is 96 miles from Dublin, on the GS Rlys, and is the sec of a Roman Catholic archbishop and a Protestant bishop It is famous for its rock, 300 feet high, on which are the ruins of a cathedral and a round tower, dating from the time when it was an important place in the kingdom of Munster Pop 2950

Cashew Nut Hard shelled fruit of a tropical gum tree, anacarduum occidentale. Its kernel is roasted for food, or used in confectionery. It grows in the West Indies

Cashmere Fine, soft woollen fabric It differs from merino in being twilled on one side only It assumes the name of a material originally woven in the Kashmir valley, from the undercoat of wool growing amid the long hair of the Tibetan goat Flocks of this domesticated breed are kept both there and in Bokhara Shawls made from their wool once fetched high prices

Cash on Delivery System by which goods are supplied by sellers through an agent to customers at a distance, payment being made on delivery The Post Office, frequently operating in conjunction with the railway companies, is the agent usually employed The Swiss Post Office started the system in 1849, and in 1885 regulations for the service were laid down by the Postal Congress at Lisbon

companies, is the agent usually employed The Swiss Post Office started the system in 1849, and in 1885 regulations for the service were laid down by the Postal Congress at Lisbon After the Great War, a COD system was introduced into Great Britain The Post Office will collect any sum up to 440 when delivering a parcel A small fee is charged In 1929 the number of parcels dealt with under thus system was 2,290,000 On July 1, 1930, the system was extended to include perishable goods There is a COD service between Great Britain and other parts of the Empire and with certain foreign countries

Cash Register Machine invented by for retail traders A common modern type has keys representing particular sums, which when depressed, record the amount of the purchase, register the total amount passed through the machine, and by raising an indicator show the customer how much he has to pay The drawers containing the cash cannot be opened without a record being made in the machine

Casino Public building in a pleasure resort It comes from the

Italian casa, a house, and was given to buildings hard and heavy Worked in Cornwall for ages, at French and Belgian watering places where it occurs in many other countries gambling was carried on Other attractions, such as dancing, were soon added, and the casino became the centre of social life Noted casinos are at Monte Carlo, Nice, Ostend, Dioppe and Boulogne The Gorman equivalent is Kursaal

Casket Letters Collection of docu-ments attributed to Mary Queen of Scots, which, if genuine, prove her complicity in the murder of her husband, Darnley The Earl of Morton professed to have found them in June, 1567, three months after their alleged date, in a silver casket There were eight letters and some sonnets in French They disappeared after the execution of the Earl of Gowrie in 1584 On examination Mary denied that the letters were genuine

Caspián Sea Inland sea on the boun and Asia. The S coast is Persian, the remainder Russian The world s largest inland sea, it is 760 m long, and from 100 to 270 m broad, and covers 169,000 sq m It is 86 ft below sea level, shallow in the N, where it freezes in winter, but deepening southward to 3000 ft It receives its waters chiefly from a vast area drained by the Volga. Its fauna intermingles drained by the Volga. Its fauna intermingles marine and freshwater types, such as sturgeon salmon, herring and common seal Astrakhan and Baku are the chief ports

Casquets Group of rocks in the English Channel, 8 m W of Alderney Their constant menace to navigation is attested by the foundering here of the White Ship in 1120, the Victory in 1744, and the Stella in 1899 A lighthouse was erected on the largest rock in 1877

Cassandra In Greek mythology, daugh-ter of Priam, King of Troy, and Hecuba She received the prophetic gift from Apollo who, enraged by her rejection of him, ordained her predictions to be dis credited After Troy fell she was killed by Clytaemnestra, Agamemnon's wife

Cassava Name of several species of tropical euphorbiaceous plants Bitter cassava yields from its fleshy root a starchy food, Brazilian arrowroot, which when dried on hot plates becomes taploca

Cassel Gustav Swedish economist. Born at Stockholm Oct 20, 1866, he was there educated In 1904 he was made Professor of Economics at Stockholm In pamphlets and reports he showed a remark able grasp of the currency problems created by the Great War and more than one European government asked his advice As an expert he attended the International Conference at Geneva in 1922

Cassia Genus of leguminous plants of outside Europe Cassia fistula pods provide a mild inxative Senna leaves come from the acute leaved Alexandrian and the narrowleaved Indian cassia shrub

Cinnamomum cassia, a species of aromatic laurel of tropical Asia, furnishes cassia lignea, a spice preferred to cinnamon in S Europe

Cassiopeia Constellation in the north a group of stars known as Casslopeia's Chair

Cassius Longinus Gaius Roman general and politician Gaining distinction in the Parthian War, 53 51 BC, he hold a fleet command in the Mediterranean in support of Pompey, on whose death in 48 BC he sided with Julius Caesar He led the conspiracy against Caesar and was present at his assassination, 44 BC proceeding to Syrile he joined forces with Proceeding to Syria, he joined forces with Brutus Defeated by Antony at Philippi, he compelled his servant to slay him, 42 B C.

Cassivelaunus British prince As vellauni, a British tribe living along the Thames valley, he opposed the march of Julius Caesar during his second British campaign. He was defeated at a ford over the paign He was defeated at a ford Thames and gave hostages to Caesar

Cassowary Ostrich like bird, Casuinhabit N Australia, Now Guinea and neighbouring islands They are three tood with
rudimentary wings, horny crest and black
plumage The dark green eggs are incubated
by the male bird Cassowarles are forest
dwellers and their running speed rivals that of the horse

Caste Exclusive social group The system prevails in India where the Hindu population is divided into a number of groups or castes No member of one of these groups may marry outside it, while its rules may also regulate his occupation and even his diet caste is, therefore, a grouping of families bearing a common name, usually associated with a particular occupation, and living socially quite apart from other castes

Castelnau Marie Joseph Edouard de Curières de French soldier Born Dec 24 1851, he entered the army in 1870, saw service in the Franco Prussian War and rose in rank until he became a general and a member of the Supreme Council of War In Aug. 1914, he was given command of the army that defended Nancy and in 1915 he became Chief of the Staff to Joffre In 1917 he commanded the forces at Verdun and in 1918 an army in Lorraine In 1919 he was elected a deput. deputy

Castiglione Baldassare Italian writer Born near Mantua, in 1478, he became attached to the court of the Duke of Urbino, who sent him to England on a mission to Henry VII in 1506 He afterwards carried out deliver page 1511 carried out delicate negotiations in Rome and Madrid, where he became Bishop of Avila He died in 1529 at Toledo His famous book, The Courtler, 1514, is a portrait of the ideal centleman

Castile District of Spain It began as a county and was long ruled by counts About 1030 one of these called himself a king and ruled over Leon as well as Castile. By wars against the Moors the kingdoms were By wars against the Moors the kingdoms were gradually enlarged and strengthened and the name Castile was used for the two In 1469 Isabella, already helress of Castile, married Ferdinand, the heir to Aragon Isabella succeeded in 1474 and Ferdinand in 1479 thus uniting the two kingdoms which developed into the kingdom of Spain. Madrid and Burgos are the chef towns. are the chief towns

Cassiterite Mineral Tin oxide, SnO, is the commonest ore of in. It occurs massive or crystalline and is

also the cooled and hardened result. In early times sand moulds fortified with clay were used for bronze and afterwards for iron Nowadays for bronze and afterwards for iron iron moulds are successfully employed Metals are cast into ingots, and this raw material is afterwards used either for hammering (forging) or casting (founding) The foundry products embrace all descriptions of metal work.

Castle Fortress erected for defence The Romans had castles on their camps and there are the remains of them along

the Roman Wall in Northumberland. In feudal times strong buildings called castles spring up in W Europe They were usually built on an eminence Notable examples were those erected by barons on the hills above the Rhine whence they could watch the trading vessels and take toll of them Towns sprang up where people built their huts around a castle for protection Castle Gaillard, built by Richard I in France, was regarded as the strongest of mediaeval fortresses

In Britain many castles were built by the Normans, consisting typically of an outer and an inner fort. The outer fort was protected by walls round which was a most, or ditch, and within the walls were the buildings for the inmates, both man and beast The inner fort, called the keep, was much stronger and served as a refuge So many of this type were built in the reigns of William I and Stephen that when Henry II came to the throne he ordered their destruction in hundreds Many rums remain Some, like Alnwick and Arundel, have been rebuilt on the old plan Others, such as Bodiam in Sussex and Tattershall in Lincoln-shire have been restored The ruins of Berkelev, Durham and Rochester give a good idea of what the mediaeval castle was like

Castle Ashby Residence of the Marquess of Northampton About 6 m from Northampton, on the LMS Rly, it was built in the 16th century, but the present house was designed by Inigo Jones

Castlebar County town, urban district and market town of Co Mavo, Irish Free State It is 150 m from Dublin on the Gt S Rlys It is a market for agricultural produce The river Castlebar flows through the town. Pop 4260

Castlecary Village of Somerset It is the GW Rly It stands amid picturesque Another Cartielle

Another Castlecary is a village of Stirling-shire This is 6 m from Falkirk and is famous for its fort built by the Romans as a defence on the line of Antonine's Wall

Castle Donington Town of Leleestershire.

It is 11 m from Nottingham, on the LMS Rly There are remains of a castle and some industrial establishments Donington Hall, once a seat of the Marquess of Hastings, is near, and during the Great War was used for the internment of German officers Pop 2736

Castle Douglas Burgh and market brightshire It is 19 m from Dumfries on the LVS Rly An agricultural centre, it is noted for its sheep and cattle market. Near noted for its sheep and cattle market. Near is Thrieve Castle, the old seat of the Douglas family Pop (1931) 3008

Castleford Market town and urban district of Yorkshire (WR) It stands on the Aire 10 m from Leeds, and is served by the LNE Rly and the Aire and

Bottles Calder Navigation System manufactured and Pop (1931) 21,781. around are collieries

Castiemaine Town of Victoria A rail-resort it is 78 m from Melbourne by railway in a fruit-growing district Pop 7170

Another Castlemane is a village in Co. Kerry, Irish Free State

Castlereagh Viscount Title borne by the eldest son of the Marquess of Londonderry Its most famous holder was Robert Stewart Born June 18, 1769, he entered the Irish Parliament in 1790 From 1794 to 1798 he sat also in the parliament at Westminster In 1796 he was given a confidential position in Ireland and was instrumental in suppressing the rebellion of 1798 and bringing about the union of 1800 He resigned office with Pitt in 1801, but in 1802 became President of the Board of Control In 1805 he was made Secretary for War The failure of the Walcheren expedition was followed by his famous duel with his colleague Canning (q r) and by the resignation of both ministers 1809 In 1812 Castlereagh returned to office as Foreign Secretary under Lord Liver-pool and he was responsible for the negotiations with France in 1814 and 1815, and perhaps the most influential member of the House of Commons In 1821 he became a marquess, but in 1822 his mind gave way and he committed suicide on Aug 12

Castle Rising Village of Norfolk It Lynn, and 11 m from North Wootton, on the LNE Rlv It is noted for its castle, its old church and the almshouse called Trinity Hospital It was a scaport until the sea receded.

Castleton Village of Derbyshire it is L MS Rlv A tourist centre, it is regarded as the capital of the Peak District and stands with a red marging severy. It is reproved Village of Derbyshire high amid magnificent scenery It is renowned for its caverns and the Blue John Mine, from which the fluorspar called Blue John is obtained There are remains of the eastle men-tioned in Scott's Pereril of the Peak Pop 650

Castletown Town of the Isle of Man, 1862 It stands on Castletown Bav, 10 m from Douglas, with which it is connected by railway. Here is Castle Rushen, once the residence of the lords of Man, and near it the old meeting place of the House of Keys Castle Rushen was given by King George V to the island in 1928

Castor One of two brothers in Greek mythology, the other being Pollux They are supposed to have been the sons of Zeus and Leda Their exploits include the expedition of the Argonauts, the hunting of the Calvdoman boar and the assistance given to the Romans at the Battle of Lake Regillus when they appeared on their horses at the crisis of the fight Castor was a tamer of horses and Pollux a boxer The dioscuri, as they were called, were worshipped by the Romans and many temples were built in their honour Two stars in the constellation of Gemini are called Castor and Pollux

Abbreviation for castoreum, Castor reddish-brown substance from two elongated posterior glands of the beaver, Bitter-tasting and of enduring odour, it contains a specific principle, castorin, which is used

Castor Oil Oil from seeds of the euphorbiaceous castor oil plant Recinus communts Native in Africa, it is grown commercially in India, California, Italy and elsewhere, with a world production of 300,000 tons The seeds are bruised between orllers, poured into hempen bags and pressed. A mild purgative, it is also a valuable lubricant, notably for aircraft engines

Casualties Term used for mishaps or accidents of any kind

The word is most usually applied to wartime losses in battle and by slokness Various attempts at a final estimate of the casualties in the Great War have been given from time to time An authoritative statement was made in the House of Commons in May, 1921, as follows

## Bureton Ewells

	214,1111 11-11-11	
Great Britain Canada Australia New Zealand India Elsewhere	Dead 743,702 56 625 59,830 10,136 61 388 8,852	Wounded 1 693 262 149 732 152 171 40 729 70 659 18 153 2,121,906
ALLIED COUNTRIES		
France Belgium Italy Portugal Rumania Berbia United States	1,385,300 38 172 460 0000 7 222 336 703 127 533 118 660	7 44 686 947 000 13 751 7 133 148 205 690
ENEMY COUNTRIES.		
Germany Austria Hungary Bulgaria Turkey	2 050 460 1 200 000 101 224 300 000	4,202 028 3 620 000 152 400 570 000

No figures were given for Russia.

Casualty Term used in Scots law It refers to a payment made by a tenant to a landlord upon the happening of a contingency or uncertain event. Cases are rare, but there was one in 1929 when the Duchess of Norfolk, under an Act of 1914, demanded casualties from her tenants in Maxwelltown

Casual Ward Poor law institution the casual poor are sheltered Vagrants and tramps are searched on admittance and deprived money or tobacco, which are restored money or tobacco, which are restored on leaving Cocoa and bread and a compulsory bath are provided Before discharge some work must usually be done, such as wood chopping or stone breaking, but oakum picking, formerly a common task, has been abolished

Casuistry Application of moral prin ciples to specific acts. The tendency to storeotype applied morally by to stereotype applied morality, biblical or occlesiastical authority, instead of trusting to the individual conscience, is observable in Talmudic, Christian and Moslem literature From the 17th century Moslem literature onwards the Penitential Books allotted public penances to particular sins, and the medieval church developed the practice at confession The term has acquired a sinister meaning when used for the sophistical arguing away ambiguous acts by hair splitting subtleties

Cat Name usually denoting domesticated breeds derived from several small species of the feline genus of carnivorous mammals. The ancient Egyptian domesticated

the | breed penetrated to S Europe, crossing occasionally with European wild cats westward and Asiatic forms eastward It reached Britain during the Roman occupation According to breeders' classifications long haired cats include tabby, blotched, tortolseshell—with sandy male—and slate blue Chartreuse, togother with blue or silver Persian, with its derivative chinchilla, smoke and Angora. Beside British short haired types are the half tailed Siamese, the tailless Manx, the Maltese, blue Russian and Abyssinian Cat shows, inaugurated in

and Abyssinian Cat shows, inaugurated in 1871, are held annually in London and other cities of Great Britain.

Cat Tackle used for hoisting an anchor from the water's edge or the hawsehole to the cat-head. It comprises an iron beam projecting from either bow, with pulley and sheaves in the outer end, fastened to the ship's side by the cat tail frame Overhanging beams stepped like boat-davits are called cat-davits cat-davita

Catacomb Subterranean gallery explace Originating in the volcanic layers beneath Rome, they were utilised by the Christian community down to Alario's onslaught on Rome, A D 410 Rediscovered in 1578, they are a mine of archaeological interest. 1578, they are a mine of archaeological interest. The gallerles, 4 5 ft wide, form a labyrinth several hundred miles long, where interments exceeded 6,000,000 The berth like recesses, or locall, were carefully scaled with inscribed slabs Circular rooms served for families or distinguished martyrs They were utilised for retuge and worship during periods of persecution Similar galleries exist in Naples, Syracuse and Alexandria.

Catalepsy Nervous affection involving sudden suspension of will power and sensation The muscular rigidity power and sensation The muscular rigidity may simulate death, or the patient may utter vehement exclamations unconsciously It may end in a few minutes, or endure for several days It arises from fright or prolonged depres sion, and sometimes attends the hysteria induced, especially in women, by mental or religious excitoment, which sometimes assumes an epidemic form It is producible artificially by hypnotic means

Catalonia Former province of Spain Bounded N by the Pyrenees, S by Valencia, E by the Mediterranean, and W by Aragon, it was divided in 1833 into the provinces of Tarragona, Barcelona, Gerona and Lerida, with an area of 12,500 sq m It has modern textile factories and great metalliferous and cereal wealth

There has always been among the Catalans a tendency to independence and in 1919 they sent a request to the Peace Conference in Paris asking to be made into a separate state It was met during the dictatorship of Primo de Rivera with a policy of repression, but after the fall of the dictator, in 1929, a more liberal policy was pursued In 1931, when Spain became a republic, a large measure of home rule was given to Catalonia

Catalpa Genus of large leaved orna-family They are natives of N America and E Asia There are ten species, some of them 40 to 50 ft high, with panicles of showy flowers and wingod pods C bignoides, occurring in British parks and gardens, furnishes light, durable timber C longissima, or French oak, is rich in tannin

Catalysis Acceleration or retardation of chemical reactions effected by

the presence of a substance not itself permanently changed. Catalysts may react by mere contact, or by entering momentarily into reactions which liberate them again immediately Some are of industrial importance such as platinum in the contact-process of sulphuric acid manufacture, or nickel in hydrogenating liquid oils for conversion into hardened edible fats Catalysis is due to atomic rather than molecular excitement.

Catamaran Surf boat used on the Coromandel coast, particularly at Madras Comprising three or more logs lashed together, 20-25 ft long, the middle trunk, on which the two paddlers squat, is elongated for turning up as a prow Larger sailing rafts of similar construction are used in the Caribbean and on S American coasts

Catania City and scaport of Sicily On the E coast at the foot of Mt Etna, it controls the trade of the fertile Catania Plain, the granary of Sicily It is 59 m from Messina Catania was founded by the Greeks and was very rich under the Romans are remains of a Roman amphitheatre It has been destroyed more than once by earthquake and volcanic cruptions Pop (1931) 227,765

Catapult Ancient military engine for projecting stones arrows and similar missiles In Medieval Europe it was a huge, pedestalled crossbow operated by a twisted cord The distinct high-trajectory ballista discharged heavier stones from the end of rotating arms

Cataract Eye disease rendering the liquid contents of the crystalline lens opaque It occasions blindness by obstructing the passage of light. The commonest form is senile cataract in ageing persons

Catarrh In chronic catarrh, or inflammation of the mucous membrane of the nose, throat and bronchial tubes with troublesome discharge, make frequent use of a nasal spray with eucalyptus, menthol, or other compounds in paraffin base Gargle night and morning with glycothymoline, listerine, or a mixture of equal parts common salt, borax, and chlorate of potash (I teaspoonful to 1 pint of warm water) Plentv of fresh air and avoidance of dust are necessary, and surgical treatment may be indicated Catarrhal inflammations may also occur in the stomach, intestines, bladder, urethra, and womb.

Cathird Genus of N American mocking birds of the thrush family, Galeoscopies The only species, with blackpolled slate grev plumage, is a voluble songster which also utters a mewing cry Another cathird is a genus of Australian weaver birds of the paradise bird family Acturedus One with bright green plumage and one with spotted, utter catcalls at evening

Catch Term in English music denoting a jocund round Written for three or more unaccompanied voices in glee form, it enables each singer in turn to catch up his predecessor's words Catches were favourite folksong compositions in Tudor and Stuart times

Catchment Area Defined space of rainfall into a self-contained drainage basin. The catchment area of the Amazon is 2,722,000 sq m, of the Thames 5924 sq m. In hydraulic ougineering it is the area available for furnishing water at a specific point for a public water supply.

In 1931, in connection with a scheme of land draining, Catchment Boards were set up in various parts of the country There were 47 of these boards, one for each of the principal rivers, and their object is to take measures to prevent floods and generally to look after the flow of the river's water

Catechism Term meaning instruction by question and answer, or a book containing such instruction, particularly in religious doctrine Outstanding examples are Luther's, 1529, Calvin's, 1536, the Heidelberg, used in the Dutch Reformed Church, 1563, the Methodist, 1852, since revised, and the Evangelical Free Church, 1898 The Roman Catholic (Tridentine) 1566, is in Great Britain replaced by The Penny Catechism The catechism of the Church of England is in the Book of Common Praver The Presbyterians have two catechisms—the Shorter and the Longer, dating from 1648

Catechu (or Cutch) Tanning and dveing extract It is obtained from the heart-wood of two Indian species of acacia, and is used for dyeing fishing nets and tanned canvas It also comes from the leaves of two Malavan species of cinchonaceous climbers These yield the astringent pale catechu of pharmacy, which is the gambir of industry

Caterham Urban district of Surrey It is 20 m from London and 7 from Croydon on the S Rly It is a beautiful residential area, and has barracks where recruits for the Foot Guards are trained The urban district includes Worlingham Pop (1931) 19,503

Caterpillar Popular name for the larva of a butterfly, moth or sand fly Its head bears strong biting mandibles for nipping leaves or gnawing timber, with three simple eyes, three thoracic segments each with a pair of true jointed legs, and ten abdominal segments variably endowed with tubular hooked prolegs, the last two being claspers Their mission is to store food for the pupal or resting stage, and they moult 8 or 10 times Their voracity frequently causes enormous destruction to agriculture

Cates by Robert English conspirator Born in 1573, he was the son of Sir William Cates by and was brought up a Roman Catholic He was one of the promoters of the Gunpowder Plot When it was discovered he left London and was shot by his pursuers near Dudley, Nov 8, 1605

Catfish Numerous family of naked or bony-skinned scaleless fishes (Siluridae) with barbels or feelers round the mouth Almost all of them inhabit temperate and tropical freshwater, and include the largest European freshwater fish, found only E of the Rhine Several species inhabit American rivers and lakes, some travelling overland in dry seasons There are about 1000 species.

Catford Suburb of London In the metropolitan borough of Lewisham, 8 m from London, with stations Catford and Catford Bridge on the S Rlv, it is a busy centre Here is St. Dunstan's College for boys

Catgut Cord made from the intestines of those of horses and asses It serves as strings for harps, violins, bows, clockweights, sutures for wounds and lathe belts. The intestines are clarified, scraped, steeped in lye, made

Cathay Name for China in the Middle and comes from Khitan, Mongolian tribes who ruled over the N part until about 1100

Cathcart Name of a parish in Scotland, now part of Glasgow It stands on the White Cart, and gives its name to a famous Scottish family The barony dates from 1460 and the 9th baron, William Schaw Cathcart (1755 1843) was in 1814 made an

Cathedral Church in which a bishop has his seat. In the Church of England most of the cathedrals are con trolled by a dean and a number of canons who

are known as the dean and chapter

The finest English cathedrals were built in the Middle Ages, Canterbury, York, Lincoln Salisbury, Lichfield and Winchester for instance S Paul's, London, is of later date Westminster Abbey is not a cathedral as there is no bishop The only cathedral built by the Church of England since the Petermetter. Church of England since the Reformation is at Liverpool, but cathedrals at Sheffield, Guildford and Monmouth are planned In other cases where bishoprics were created, as in Birmingham and Manchester, existing churches were converted into cathedrals At Truro the parish church was enlarged and made into a cathedral The Roman Catholics have a fine modern cathedral at Westminster and another

modern cathedral at westminister and anomals planned for Liverpool
Outside England the finest cathedrals in the world are S Ambrose, Milan, S Mark's, Venice, and the Duomo Florence In Spain, Seville one of the largest in the world, ranks first. In France, Notre Dame, Paris, Chartres, Amiens and Rheims may be mentioned In Germany, Cologne, Mainz and Treves are notable A fine modern cathedral is S. John the Divine, New York

Catherine Italian saint called Cath erine of Siena Born in 1347 at Siena, she joined the Dominican tertiaries in 1365 She announced the impression on her body of the stigmata in 1375, and induced Gregory XI to leave Avignon for Rome in 1376 She practised works of mercy, and wrote mystical letters and prayers Commencented on April 30 the day of her Commemorated on April 30, the day of her death in 1380, she was canonised in 1461

Catherine Saint and martyr called Catherine of Alexandria She lived in the 4th century and tried to convert the Emperor Maximinus to Christianity She was scourged, imprisoned and then tortured on a wheel She is the patron saint of the wheelwrights, the Paris university and religious sisterhoods commemorated on Nov 25 She is

Catherine Queen of Henry II daughter οſ Lorenzo de Medici, she was born April 13, 1519 and in 1533 was married to Henry, heir to the throne of France He became king in 1544 and reigned for 15 years, after which three of the four sons Catherine bore him were kings in turn The eldest Francis II, only reigned for a year, but during the reigns of the other two, Charles IX and Henry III, Catherine, as regent, was the dominant person in France She first favoured the Huguenots against the extreme Roman Catholics led by the Guises, but later turned round and assented to the massacre of S Bartholomew She died Jan. 5,

useptic, dyed, if necessary, and made up into Catherine I Empress of Russia Born cords of twisted strands her youth in Marlenburg and married a Swedish soldier Taken prisoner by the Russians in 1702 she became the mistress of Peter the Great, and in 1711 his wife Her abilities were considerable, and Peter named her as his successor From 1725 until her death, May 17, 1727, she was Empress

> Catherine II Empress of Russia Born at Stettin May 2, 1729, a daughter of a German prince, in 1745 she married Peter, Duke of Holstein, who had been chosen as heir to the Russian throne. In 1761 Peter became czar, but in 1762 he was murdered and his widow took his place Catherine reigned until 1796 and greatly increased the area and power of Russia An enlightened despot, she carried out many reforms She died Nov 17, 1796, her successor being her son Paul II

Catherine of Aragon Wife of Henry nand and Isabella of Spain, she was born in Dec, 1485, and in 1501 was married in London to Arthur, Prince of Wales In April, 1502, he died, and the princess was betrothed to his brother Henry He became king in 1509, and the two were married in June of that year When Henry fell in love with Anne Boleyn he put forward the theory that the union with Catherine had been illegal on the ground of relationship The Pope would not consent to a divorce and the result was the overthrow of the Papal authority in England Cranmer then pronounced the marriage invalid Called the princess dowager, Catherine was practically a prisoner until her death at Kimbolton, Jan 7.

Catherine of Braganza Wife of Charles II Born Nov 25, 1638, she was a daughter of John, King of Portugal She married Charles in May, 1662 her dowry being Tanglers, Bombay, and a large sum of money She remained in England until 1692, when she went back to Portugal and was regent of that country for her brother She died Dec. 31, 1705

Cathetometer Instrument for measur ing accurately small differences in vertical heights as in the case of the different levels of the mercury in the tube and distern of a barometer It consists essentially of a horizontal telescope which slides up and described a proposed of the consists of the consist down on a vertical stand provided with a finely divided scale

Cathode (or Kathode) Electrode point from which the current leaves, or negative plate of a voltaic cell or electrolyte. or positive terminal of the external circuit In a vacuum tube or thermionic valve the electrons leave the cathode and flow to the anode (q, v). Metal is deposited at this pole when objects are electroplated

Catholic Apostolic Church

Religious communion due to the preaching of Edward Irving, hence its alternative name of Irvingite Founded in 1832, it uses symbolic ceremonial based on primitive practice, under the direction of twelve apostles who claim supernatural powers Subordinato to them are prophets and evangelists each congregation having its angel There is a fine Gothic church in Gordon Square London, built in 1851, and upwards of 80 churches with adherents in Great Britain, Europe and the United States

## Catholic Emancipation

Term used for the removal of political and other disabilities under which Roman Catholics suffered These dated in Great Britain from the time of the Reformation In 1778 a few of the disabilities were removed, but full emancipation dates from 1829 when the oath of supremacy was altered Roman Catholics can now sit in Parliament and hold civil and military offices of all kinds They can also enter the professions

Catiline Lucius Sergius Roman politician and conspirator Of impoverished family, he served under Sulla, displaying much cruelty during the proscription He governed Roman Africa in 67 BC, and on his return conspired to seize the consulship The conspiracy was defeated by Cicero, who was then consul Cicero's orations against Catiline are among his greatest efforts

Catkin Crowded spike, usually pendulous, bearing small, unisexual flowers protected by scale like bracts instead of petals and sepals Botanists call it an amentum During flowering time they are seen on some British forest trees, including the birch, alder, oak, beech, hazel, hornbeam, poplar and willow

Catment Flowering plant seen in British nepeta cataria, it bears white flowers which grow in dense whorls The plant is aromatic and attracts cats, hence its name Other kinds of catmint grow in warmer countries and bear coloured flowers.

Marcus Porcius Roman statesman, general and writer Born at Tusculum he became in turn quaestor, aedible, practor and, in 195 BC, consul with Flaceus He served in Africa during the second Punic war, and held commands in Sardinia and Spain In 184 he was chosen censor, and in that office he tried to restore the simple manners and purer morals to restore the simple manners and purer morals of an earlier age. Known also for his enmity to Carthage, he coined the famous phrase Delenda est Carthago (Carthage must be destroyed). He died in 149 Bc at 85 Cato wrote a famous book on agriculture, Dc Re Rustica Cato's great grandson, also Marcus Porcius Cato, was a famous Roman statesman and caldier. He was prompt the appries of Julius Soldier.

Soldier He was among the enemies of Julius Caesar and during the civil war joined the party of Pompey He committed suicide at Utica in 46 B.C

Street Conspiracy Plot to murder British ministers in 1820 Arthur Thistlewood, a revolutionary concerned in other projects during the reign of George III, conceived a plan for assassinating Lord Castle reagh and his ministerial colleagues at a dinner in Grosvenor Square, London, on Feb 23
Arms were collected in a hired rendezvous in
the neighbouring Cato Street Thistlewood and
his colleagues were arrested beforehand, and
he and four other were executed

Cat's Ear Popular name for a genus of chacris) Inhabiting Europe, W Asla and N

taining asbestos fibres S African cat's eye is a bluish stone with crocidolite fibres

Catskill Mountain range in New York State, USA Situated west of the Hudson, it belongs to the Alleghany Plateau and has well timbered uplands rising to 4200 ft in Silde Mt It is the scene of Rip van Winkle's reputed adventures

Catskill is a small town on the Hudson, 30 m. from Albany The Catskill aqueduct is a wonderful piece of engineering It carries water from the Ashoken Reservoir to New York

Cat's Tail Popular name for the club rush or reed mace (Typha) Growing throughout Britain, the broad-leaved has brown spikes from 6 to 12 in long, the narrow-leaved being smaller

Cat's-tail or timothy grass (phleum), is a useful fodder plant, with dense cylindrical spikes The name also denotes cirrus cloud when curling into brush-like filaments

Cattaro Seaport and city of Yugo Slavia, also called Kotor It is on the Gulf of Cattaro, an arm of the Adriatic During the Great War the Austrians used the port as a naval base Cattaro belonged to Venice before becoming Austrian in 1814 1919 it was given to Yugo Slavia. Pop 6000

Cattegat Arm of the sea, between Sweden and Denmark Northwards it connects through Skagerrak with the North Sea and southwards through the Sound the Great and Little Belts with the Baltic About 150 m long its greatest width is 88 m

Catterick Village of Yorkshire The Roman Cataractonium, it stands on the Swale, about 5 m from Richmond Near it the War Office has a large camp, made during the Great War, and there is a racecourse

Cattle Cows and oxen used agriculturally for supplying beef milk or labour Most European strains descend from the extinct aurochs, the first domesticated breed in Britain being the Celtic shorthorn Among English breeds shorthorns have provided high-priced pedigree stock the world over Herefords are now the chief beef yielders on N American ranches Famous milkers are Devons Avrshires, Jerseys and Guernseys Other Scotch, Welch and Lich straight and seven and Support of the Scotch, Other Scotch, Welsh and Irish strains are appreciated Great continental milkers are Dutch Swiss, Simmenthal, Norman, Breton and Danish

Cattwater Opening of Plymouth Sound is to the east of Plymouth, forms the estuary of the Plyn, and can accommodate large vessels

Catullus Gaius Valorius Roman poet. Born at Verona, he usually resided quietly in his villas on Lake Garda or resided quiety in his villas on lake Garda or at Tivoli. His 116 poems, of varving metre, cover the closing eight years of his life. Many were inspired by P Clodius Pulcher's sister Clodia, whom he entitled Lesbia, others concern men of the time, as Caesar and Cicero He died in 54 B C

chacus) Inhabiting Europe, W Asia and N Gaucasia District between the Black Africa are 30 species Some of them, such as the common cat's car (H roducad) which is found throughout Britain, have vellow heads opalescence resembling that reflected in a cat's eye The chrysoberyl, or true cat's eye, also found in Ceylon, is softer, a variety of quartz con-

Asia.

Aba ...

252CAVEA'

Caspian Sea, nearly 1000 m Its breadth varies from 30 to 140 m and the highest point is Mt Elburz (18,465 ft), but there are other heights over 12,000 ft, and several over 15,000 m and the highest point is the framework. The district is rich in minerals

American term for a meeting of Caucus party managers to select candidates for election Lord Beaconsfield used it satirically of the Liberal 600 organised by Joseph Chamberlain at Birmingham in 1878

Caul Woman's close fitting, network cap worn in Europe in the 16th 17th centuries, hence a piece of the foetal membrane or amnion which sometimes encompasses a child's head at birth Byron was so born A caul was deemed an infallible and transferable

safecuard against drowning

Cauliflower Variety of cabbage and a popular vegetable for the table Its flowers have been mostly condensed while young into a cluster forming a succulent white head Its flower stem is shorter, fleshier, whiter, more compact and more delicately flavoured than in proceed! It was apparently developed in the Mediterranean basin, where it still grows luxuriantly, and came thence, traditionally from Cyprus, to England in the 16th century

Causerie Familiar talk The word was weekly articles he contributed to Parls news papers for twenty years from 1849, as Causenes du lundi, Nouveaux lundis, etc.

Causeway Road or path raised above ground level across marshy or low-lying land It may be formed by rammed earth, stones, timber, brushwood or the like, and be used for crossing a ford or traversing an embankment

The term describes also the paved military roads of Roman Britain The Giant's Causeway

in Northern Ireland is famous

Caustic Substance having the power of destroying animal tissues by chemical action. Such substances are used in surgery in local applications for germ infected bites, as well as for cancerous and gangrenous conditions Lunar caustic (silver nitrate), caustic soda, potash and lime, and carbolic acid are examples

Cautery instrument for burning bodily primitive surgery, used for arresting arterial bleeding after amputation, has become refined into Paquelin's thermocautery for removing growths, like warts, Corrigan's button for applying counter irritation, and the galvano cautery The instrument has a steel or platinum head, and the heat is usually produced by electricity

Cavalry Body of soldiers who fight on horseback Cavalry were used in warfare in very early times The horsemen of the Bible were cavalry and cavalry were also

used by Persians, Cartheginians and Romans
The first great age of cavalry in warfare,
however, was in mediacyal three Knights, with their heavy armour, could only move on horse back By forming themselves into a compact mass they could crush down hostile infantry, and as they could only be checked by other horsemen similarly armed, the battles of the age of chivalry were between bodies of knights,

stretches almost from the Sea of Azov along English archers, notably at Crécy, while the northern shore of the Black Sea to the final blow was given by the invention firearms

Cavalry, however, had still a great part t play Freed from the weight of their armou horsemen were used with great effect to ric together against slightly demoralised troop In the S African War mounted infantry too their place, and against trained Europea troops there was little use for them in th Great War

In the British Army the cavalry are a distinc branch, and there is a school for them a Netheravon They are divided into regiment each about 500 strong, called Hussars, Lancer Dragoons or Dragoon Guards In addition there are the Household Cavalry, composed of Life Guards, and Royal Horse Guards. Th

seomanry form a cavalry reserve

Cavan County of the Irish Free State A rose inland county of Ulster, it cover rose against with hills in the north Cavan in the county town The chief rivers are the Erne and the Blockwater Pop (1926) 82,452

Erne and the Blackwater Pop (1926) 82,452

Cavan Market town and urban district contact to Cavan, Irish Free State, also the county town It is 85 m from Dublin on the Gt Southern Rly Pop 3000

Cavan Earl of Irish title held by the Cavan Earl of Irish title held by the Oliver Lambart, Governor of Connaught, was made a baron, and in 1647 an earl His descendant, Frederick Rudolph Lambart, who became the 10th earl in 1900, was born Oct 16 1895

Educated at Eton, he entered the Grenadier Guards and served in S Africa. If the Great War he commanded the Guard Brigade and the Guards Division on the Western Front, and lator the 14th Corps them and in Italy From 1920 22 Cavan was commander in-chief at Aldershot, and from 1922 26 chief of the Imperial General Staff In 1920 became captain of the Gentlemen at Arms became captain of the Gentlemen at Arms

Cave Hollow place in the earth Usually of natural origin, it may occur in limestone regions where percolating rain water has dissolved the carbonate of lime, in sand stone cliffs once exposed on a scashore, or in volcanic regions where the upper crust of a flowing lava has solidified. The mammoth caves of Kentucky are the largest known When occurring in hillsides with natural outlets they bave from the earliest times been utilised for human occupation. The fossil bones and implements unearthed in them have enabled students to reconstruct the manner of life and

students to reconstruct the manner of life and cultural development of the men, called cave men, who lived in them

Cave Viscount. English politician George Cave was born in London, Feb 23, 1856, and educated at the Merchant Taylors School and St. John's College, Oxford He became a barrister, entered Parliament as Unionist MP for the Kingston division in 1906, and in 1915 he was made Solicitor General From 1916 18 he was Home Secretary In 1918 he became a Lord of Appeal and a viscount, and he was Lord Chaycellor 1922 28, except for the few months of the first Labour ministry He died March 29, 1929

Caveat Latin word meaning "let him beware". It is used in the law courts for an order forbidding a thing to be done without notice given. Thus a person who has good reason for preventing someone else from proving a will can obtain a caveat, which with infantry playing a secondary part. The orders the person to take no further steps in the supremacy of cavalry was challenged by the matter without giving notice

Cavell Edith Louisa British nurse Born in Norfolk, Dec 4, 1865, she was trained at the London Hospital became matron of a medical institute in Brussels, and during the German occupation harboured wounded and refugee soldiers, and aided their escape into Holland Denounced by a renegade, she was tried by court martial Oct. 7, 1915, and, despite neutral mediation, was shot five days afterwards. Her remains now repose in Norwich Cathedral, a memorial statue stands in St Martin's Lane London

Cavendish Name of the English family whose head is the Duke of Devonshire It comes from Cavendish in Suffolk where the early Cavendishes lived Sir John Cavendish, a judge, was beheaded by the peasants in 1381 His descendant, Sir William Cavendish (died 1557), obtained large grants of land when the monasteries were dissolved, and married the rich Countess of Shrewsbury called married the rich Countess of Shrewsbury called Bess of Hardwick This brought the Derbyshire estates, including Chatsworth and Hardwick, into the family Their son, William Cavendish, was made Earl of Devonshire in 1618, and the 4th earl was made Marquess of Hartington and Duke of Devonshire in 1694 The duke also bears the title of Earl of Burlington Another branch of the Cavendish damily bears the title of Baron Chesham of Baron Chesham

avendish Henry English chemist and physicist Born at Nice, Oct 10, 1731, a nephew of the 3rd Duke of Devonshire, he studied at Cambridge, and became an F.R S in 1760 He devoted himself to researches in electricity, heat and the composition of gases He discovered hydrogen 1766, determined the constituents of water and tracepherical and approximantally combined. atmospheric air, and experimentally combined oxygen and hydrogen into water, before 1784 He calculated experimentally the density of the earth, 1798 He died at Clapham, March 10,

Caversham Suburb of Reading, on the Thames, opposite Reading proper with which it is connected by a bridge rebuilt in 1926. The chief building is the church, much restored Here are the Orntory School, which was removed from Birmingham in 1922, and Queen Anne's school for girls, founded in 1698 Caversham was included in Reading in 1911

Caviare Sturgeon roc prepared for table The Russian name is ikra The ergs are sifted out of the overies and lightly salted Caviare is served as a hors d'œuvre or savourv, spread on toast The choicest is that from the sterlet, freshly prepared Coarser varieties come from Scandinavian and N American fishing grounds

Cavitation Formation of partial within a liquid when undergoing rapid agita-The term denotes specifically phenomenon observable when the propellers of ships are driven in water at excessive speeds. The effect is to churn the water into masses with independent movement, the partial vacuum causing reduced thrust and loss of efficiency

Cavour Camillo Benso Count Italian 10, 1810, of noble family, he began to take part in political life in 1847. In 1848 he was closted to the Ballometer of Services and the was elected to the Parliament of Sardinia, and in 1850 was made Minister of Agriculture He became Premier in 1852, and was responsible for sending Sardinian troops to the Crimea,

by which he earned the goodwill of Britain and France In 1859 war broke out between Sardinia and Austra, and with French help the Sardinians were victorious The treaty of peace did a good deal to prepare the way for a united Italy Cavour, who had opposed the republican zeal of Mazzini and the military ardour of Garibaldi as likely to hinder rather than aid the desired union, died June 6, 1861

Cavy Genus of small S American rodents (Caria) Several species honeycomb the continent with their burrows They include the restless cavy of Brazil and Uruguay, and the rock cavy The Cutler's cavy of Peru, domesticated by the Incas was brought to 16th century Europe by the Dutch, and is now familiar as the guinea pig

Cawdor Village of Nairnshire It is 5 m from Nairn In its castle, Macbeth, the Thane of Cawdor, is supposed to have lived The present castle, the property of the Campbells, dates from the 16th century

Cawdor Earl Title held since 1827 by the family of Campbell Sir John Campbell, a son of the 2nd Earl of Argyll, married about 1510 the heiress of Cawdor Castle and estate, and here he and his descendants lived for some three centuries. In 1796 John Campbell was made Baron Cawdor, and in 1827 his son was made an earl Frederick, the 3rd earl, was MP for Caer marthenshire, 1874-85, and First Lord of the Admiralty in 1905 He was (1895-1905) chairman of the G W Rlv, and died Feb 5, 1911 The earl's eldest son is called Viscount Emlyn The family estates are chiefly in Pembrokeshire and Caermarthenshire

Cawnpore City of India. The capital the United Provinces, it is situated on the Ganges 40 m S -W of Lucknow It is a busy railway junction, a military station with large factories for army equipment, and a centre of the grain trade A church and memorial mark the massacre by Nana Sahib of surrendered Europeans during the Indian Mutiny, 1857 In 1931 there were riots here Pop (1931) 243,755

Caxton William. English printer Born 1439 to a London mercer. In 1441 he went to Bruges, then to Cologne where he learned printing, and in 1474 he was responsible for The Recuyell of the Histories of Troye, the first book printed in the English language. The second was The Game and Playe of the Chesse, also printed by him at Bruges. In 1476 Caxton returned to London and set up a printing press. returned to London and set up a printing press at Westminster, the first in England Here he at Westminster, the first in England Here he printed 96 books, including The Canterbury Tales, Morte d' Arthur, and The Myrror of the World, the first to be illustrated He died in 1491 and his business was continued by his assistant, Wynkyn de Worde CAXTON HALL, in Caxton Street, Westminster, was built in 1882 for a town hall. It is now used for public meetings and offices.

now used for public meetings and offices

Cayenne Capital and only scaport of French Guiana, S America. Situated on the island of the same name, it has convenient administrative buildings over-looking a fortified harbour It exports gold derived from placer mining, besides phosphates, balata, rosewood and other forest products It is the official hardour that the forest products It. was is the official headquarters of the French penal in settlement at the He du Dlable, 30 m. to the N W Pop (1951) 10,744

Cayenne Pepper Condiment.

dried and pounded pods of several species of Capsicum, a native of Central and S America Some species were brought to Europe in the 16th century The unpounded pods of the common annual kind, and of another, called goat pepper, grown in the East Indies, are the chilles used for vinegar and pickles The pungency arises from an active principle, capsioin, which is utilised in pharmacy as a counter irritant The

Cayman Genus of Central and S Americanily (Carman) The five species are distinguishable from the Mississippi and Chinese alligators in having no bony septum to the nose The great Amazonian cayman reaches a length of 20 ft

Cayman Islands Island group of the W Indies, a British possession Three in number, the islands are governed from Jamaica, which is some 200 m to the S E The inhabitants engage in tutle fishing and cocount planting, and cattle, ponies and hides are exported George town is the capital Pop 5650

Cecil Name of a famous English family It originated at Stamford with a certain David Cecil who was an MP in the time of Henry VIII His grandson was Lord Burghley, who left two sons The elder was made Earl of Exeter and the younger Earl of Salisbury. and from them descended the two branches of the family represented by the Marquess of Exeter and the Marquess of Salisbury

Cecil Lord Hugh English politician Hugh Richard Heathcote Gascoyne Cocil, youngest son of the Marquess of Salisbury, was born Oct 14, 1869, and educated at Eton and University College, Oxford In 1890 he was elected M P for Greenwich, a seat he rotained until 1906 In 1910 he was closen M P for the University of Oxford, and was re-elected at succeeding elections including 1935 He was made a privy councillor in 1918 Although never in office, Lord Hugh Cecil has dominated the House of Commons as an orator

Cecil Viscount English politician Edgar Robert Gascoyne Cecil was born Sept 14, 1864, being the 3rd son of the 3rd Marquess of Salisbury He went to Eton and University College, Oxford, and became a barrister In 1900 he was made a K C and in 1906 he entered Parliament as Unionist M P 1906 he entered Parliament as Unionist M P for East Marylebone In 1912 he was elected for the Hitchin division and he retained the seat until 1923 In 1915 Lord Robert Cecil as he was known became Under-Secretary for Foreign Affairs in the coalition, and from 1916-18 he was Minister of Blockade, resigning rather than consent to the disestablishment of the Church in Wales In 1923 24 he was Lord Privy Seal, and in 1924 27 Chancellor of the Duchy in the Unionist ministry In 1924 he was made a peer, as Viscount Cecil of Chelwood was made a peer, as Viscount Ceeil of Chelwood Lord Cooll was perhaps the leading English advocate of the League of Nations and this led to his retirement from oilice in 1927

Cecilia Italian saint and martyr It is said that Murcus Aurelius ordained her death, about 1 D 176 Another legend says she was martyred under Alexander Severus, about 230 The patron saint of music and the blind she has inspired many masterpieces in painting and music, including Handel's setting of Dryden's "Ode for St Cecilia's Day"

genus Cedrus The stately cedar of Lebanon, C libani, acclimatised in England rises sometimes to 80 ft with wide spreading horizontal branches The silver cedar, C allantica, grows in the Atlas, a third species, C deodara, is the Himalayan deodar Spanish cedars, and those used for cedar pencils, are Juniperus, that used for eigar boxes is a Cedrela

Cedron Pear shaped fruit of a tropical American tree (Simaba cedron) A native of Colombia and closely allied to the Jamaican bitter ash which supplies quassia, this fleshy, lemon sized fruit contains a bitter, almond shaped nut which is a remedy for snake bite, intermittent fever and hydrophobia

Ceiling Interior overhead surface of an apartment Some ceilings are boarded, others utilise the roof beams and joists to emphasise panelled patterns. The concealment of the roof timbers by horizontal or coved surfaces found expression in the painted cellings of the Italian Renaissance, introduced into France and into England by Verrio and others This principle, facilitated by the use of plaster, was especially utilised in the 18th-century low relief classical mouldings of the Adam brothers Painted ceilings re appear with marked effect in some modern architectural work Plaster mouldings notably in reinforced construction, have been replaced by fire resisting sheet steel stampings

Celandine Name of two perennial yellow flowered herbs Tho greater (chelidonium majus) of the poppy order, with much divided leaves, bears umbels of four petalled flowers The lesser (ranunculus ficaria) of the butteroup order, is a short, decumbent plant with heart shaped scalloped leaves and stalks bearing single flowers with from eight to twelve petals

Celebes Island of the Separated from Indies Borneo hv the Macassar Strait, it presents a contortion of four long peninsulas covering 73,160 sq m The interior is mountainous some volcanic peaks exceed 10,000 ft Besides mineral wealth it yields timber, rattans, nutinegs spices copra hides fish and tortoiseshell. The inhabitants are Malayo Polynesians. Except in the Menado residency, the island government is centred in Macassai It was discovered in 1512 by the Portuguese, but was taken in 1600 by the Dutch In 1933 pottery dating to 2500 nc was discovered on the island Pop (1930) 3 087,335

The Celebes Sea is a division of the Pacific cean, between Celebes, Borneo and the Ocean, Philippine Islands

Celeriac Turnip rooted celery This form celery in France and Spain is treated as a biennial and raised untrenched and un blanched The root and stems are sliced for salads or cooked as a substitute for the turning

Celery Biennial umbelliferous herb (Apum graveolens) A native of Europe, W Asia and N Africa it grows wild in British marshlands near the sea, having an acrid poisonous flavour. It has long been oultivated as a table veretable, being raised from seed annually and finally planted out in trenches By carthing up the heart and stems are blanched and are eaten uncooked. Colery is also stewed and used in soups. There are white and red varieties

Celestine Name of five Popes The most important are Celestine I Cedar Name of various evergreen, conl Celestine important are Celestine I from trees, pro-eminently of the (422 432), the first Pope who took a direct

CENIS

a reign of a few months, and died May 19, 1296 Before becoming Pope, he founded an order called the Celestines, now extinct

Celibacy State of being unmarried.
Adopted by Buddhist monks
and Palestinian Essenes, it was continued by 3rd-century Christian hermits, in monastic communities the celibate vow was essential

The Eastern Church permits marriage to ordinands, but not to ordained clergy In the Roman Catholic Church clerical celibacy was ordered from time to time. The present rule prohibiting marriage among the clergy dates from the Council of Trent, 1563. In the Church of England the marriage of the clergy was permitted at the Reformation

Cell In biology, the structural unit of all living organisms. Formed of a subprotoplasm-nowadays called evtoplasm—it is usually separated from its neighbours by a membranous wall, usually better defined in plants than in animals The cytoplasm normally contains a nucleus, charged when active with a definite number of rodlets called chromosomes bathed in a complex nuclear sap The most elementary organisms, conveniently called unicellular necessarily comparable with the separate cells of more highly organised, multicellular beings In these the physiological functions of life and reproduction are fulfilled by modified cells discharging specialised duties

Cell In electricity, single jar or unit used for interchanging chemical and electrical energy Simple voltaic cells produce continuous energy simple voltate cents produce continuous clectric currents from differential electrodes, eg, copper and zine held in electrolytes or decomposable solutions. Such cells joined in series become primary batteries, on the Leclanché type are based dry cells. Conversely, electrolytic cells serve for decomposing solutions their constituents are required inwhen dustrially, as in electroplating.

Cellini Benvenuto Italian artist. Born devoted himself especially to the goldsmith's art Reaching Rome in 1519 he practised his craft there for 20 years In Paris in 1540, he produced the superb silver salt cellar now in Vienna, and a bronze high-relief, the Nymph of Fentainebleau pow in the Louyer Beturalor Fontainebleau, now in the Louvre Returning to Florence, he produced the bronze casting of Perseus, with the head of Medusa, still there Much of his work is lost His Autobiography is a marvellous record of an untameable and selfapplauding temperament He died in Florence, Feb 13, 1571

Celluloid Artificial, solid and highly inflammable substance made by mixing nitrated cellulose with camphor or a substitute. First produced in 1856 under the name xylonite, it was developed in New Jersey Unaffected by the atmosphere, water or dilute acids, it becomes plastic at 75 deg C, and can then be moulded. then be moulded At ordinary temperatures it is turned sawn cut or drilled, being used for cutler, handles, pianoforte keys combs, cutlery handles, pianoforte keys combs, accumulator cases and photographic films When coloured it simulates tortoiseshell, coral, amber and melachite

Cellulose Essential constituent of the wall membrane of all vegetable cells, and therefore the structural basis of the plant world A white, opaque carbohydrate insoluble in water, isomerous with starch, it

interest in the British and Irish Churches, and is nearly pure in the fibre of cotton linen and Celestine V who resigned in Dec., 1294, after hemp Boiling with dilute sulphuric acid hemp Boiling with dilute sulphuric acid changes it into dextrose. Nitric acid converts it into nitrocellulose, the base of celluloid, collodion and gun-cotton With caustic soda and carbon disulphide it becomes the viscose which yields artificial silk

Celt Generic name used variously to designate a racial type and a language group To classical writers the Celts were tall, blue-eyed, fair-haired tribes N of the Alps, who passed southward during the Bronze Age into Gaul, and fanned out into Spain, Italy, Greece and Asia Minor Their Indo-European speech developed two types, which were acquired by peoples of other racial origins who preserve them to this day as the Q-Celtic (Gaelic-Erse-Manx), and P-Celtic (Breton-Welsh) languages respectively. The dark-The darkcomplexioned, so-called black Celts in Ireland have no racial connection with the Celtic type To-day the word Celts is used for the peoples.

not English, who inhabit Scotland, Ireland and Wales, and have their own languages

Celt Prehistoric and primitive axe-head with cutting edge at the broader end This implement, developed in neolithic times, was imitated in the early Metal Age in cast copper or bronze

Cement Composition which is plastic at one level of temperature or moisture and then sets or hardens Stucco is calcined gypsum in such forms as Keene's, Parian and plaster of Paris cement The term predominantly denotes hydraulic compositions used in modern engineering. In the 18th century septarian nodules containing clay and carbonate of lime were calcined and ground into cement. In 1824 Joseph Aspdin of Leeds calcined an artificial mixture of clay and limestone, ground the clinker, and called it Portland cement, because when set it resembled Portland stone The process is now highly standardised under a British standard specification. mixture is burned in huge rotary cylinders, ground extremely fine, and used in making concrete for structural foundations, bridges, tanks, buildings and even ships Reinforced steel enormously enhances its utility Aluminous cement is used for quick setting

ementation Metallurgical process effecting change in one of two substances heated together Iron bars heated in powdered charcoal gradually change mto steel Cast iron decarbonised in powdered red-oxide becomes malleable cast iron Gold was formerly separated from silver by cementation with salt and brick dust, which converted the latter into silver chloride

Cemetery Piece of ground, not attached to a church, set apart for the burial of the dead Among famous cemeteries are Abney Park, London, Pere Lachaise, Paris, and Glasnevin, Dublin and Glasnevin, Dublin

It is usual in cometeries to consecrate part of the ground for Anglicans, others for Nonconformists, Roman Catholics and Jews

Cenci Beatrice Roman lady The francesco Cenci, she is the central figure of Shellev's tragedy The Cenci With her stepmother and her brother she murdered her father, and for this crime the three were beheaded, Sept. 10, 1599 Shelley's representation of her as the victim of her father's incestuous passion has been disproved.

Cenis Mountain of the Alps between France and Italy. Across it is a

256

pass, nearly 7000 ft high, which has been one of the chief routes to Italy for over 2000 years A carriage road over it was made by order of Napoleon. Beneath is a tunnel, 71 m long, opened in 1871 This is on the line from Lyons to Turin

Cenotaph Name given to an empty tomb used as a memorfal to the dead The Greeks erected conotaphs, and a number were built after the Great War The chief is that in Whitehall, London It was designed by Sir E Lutyens and unveiled by the King on Armistice Day (Nov 11, 1920) It bears the inscription 'The glorious dead'

Censor In Rome a magistrate who took and their property There were two censors, and they were first appointed in 443 B c Gradually other powers were given to them They began to look after the finances, to care for the temples and to forbid practices regarded

as harmful to the State

For long the Church had a censorship of books, and to day the Roman Catholic Church has censors who place books they regard as harmful on the Index In Great Britain there is no censorship of literature or of the Press, but persons can be punished for publishing indecent or libellous matter There is a censor ship of the theatre and no play can be publicly produced unless it has been passed by the examiner of plays There is a film censorship by an unofficial body appointed by the trade In 1928 the Irish Free State set up a board of

In 1928 the Irish Free State set up a board of censors with power to forbid the publication of anything considered immoral in time of war censors are invariably appointed and all written and printed matter must be submitted to them before being published. Letters from

the seat of war are also censored

Census Official estimate of the number of people in a country and other particulars about them Censuses of the Jews, Romans and other peoples were taken in ancient times but there are no reliable figures for the modern world before about 1800 To-day a census is taken in most civilised countries every five or ten years, in Great Britain one has been taken every decade since 1801, usually in April In 1921, for special reasons, it was taken in June the particulars asked for were the name age, sex, occupation, birthplace, marital condition and nationality The results are published in blue books In Ireland the census was taken in 1926 In Great Britain and Northern Ireland a census was taken on April 26, 1931

A census of production is an estimate of the amount and value of a country's output of wealth. First taken in the United States one was taken in Great Britain in 1907 and another in 1924 For 1924 the output of goods was valued at £3,833,000,000 against £1,698,000 on in 1907, an increase due largely to higher prices

Another census was taken in 1930

Cental Measure of weight used in the United States and to some extent in Canada and Great Britain It equals 100 lb

Centaury (Eruthraca Centaurum) An nual herb It is about 12 in in height, with oblong leaves joined at the base growing in pairs The rose coloured flowers are funnel shaped and borne in a terminal cluster on an erect stem The centaury flowers from early summer to September

Centavo Monetary unit used in Portugal, Mexico and most of the countries

of Central and S America It is minted in silver coins of 5, 10, 20, 25, 40 and 50 centavos Ir Portugal 100 centavos go to the escudo, ir Mexico 100 to the dollar, in Argentina 100 to the peso

Centenarian A person who reaches the age of 100 In 1911 there were 466 centenarians in the British Isles, 292 being women In 1921 there were only 145, but the figures for Ireland were not then included

Centigrade Type of thermometer in vented by Anders Celslus, a Swede, in 1742 In it the scale is divided into 100 degrees The lower point 0 deg C is the melting point of ice and the higher point 100 deg C the temperature of steam given off by boiling water

Centipede Animal belonging to the Myriapoda They resemble insects save that they are without wings, and are remarkable for the number of their legs, some laving over 100 The body is divided into segments, and in all these, except the last two, are two legs They possess claws which contain poison and with these the tropical species can give a dangerous, perhaps fatal, wound The bite of the British species is not dangerous

Central America Stretch of land S America or Mexico and Calombia It contains six little republics, Guatemala, Costa Rica Nicaragua, Honduras, Salvador and Panama, and is pierced by the Panama Canal British Honduras is in the N E corner The isthmus is about 1000 m long and varies in breadth

From its discovery in 1502 until 1821 Central America was a Spanish possession After 1821 it became independent, and was for a short time the United States of Central America This union was soon broken and separate republics formed, the last being Panama, created in 1903 Other efforts to form a single state also failed, and there were constant wars between one and another of the republics In 1923 the republics signed a general treaty of peace See Costa Rica, Honduras, Salvador, etc

Central Australia Name of a Australia It dates from 1927 when Northern Australia was divided Alice Springs is the capital and the territory covers 236,400 sq m

## Central Criminal Court

London court of law It is in the Old Bailey on the site of old Newgate Prison, and was set up in 1834 Here serious criminal cases from the London and surrounding districts are heard It thus corresponds to the assizes held outside the London area The judges are the lord mayor, recorder, common serieant, city aldermen and judges of the city court, but usually a judge of the high court presides The present building was completed in 1905 at a cost of £250,000

Central Powers the Great War to Germany and Austria, and their allies

Central Provinces Name of one vinces of India, in full the Central Provinces and Berar The British districts cover 82,149 sq m. Berar 17,789 sq m. and the feudator; states 33,112 sq m Negpur is the capital and Jubbulpore the next largest city Before 1853 much of the province consisted of the Kingdom of Nagpur it was formed in 1861 and Berar

was added in 1902. It is under a governor and like gills a legislative council

Centre Name of a political party It was first used in this sense at the time of the French Revolution When the National Assembly met the groups were classified as left, right and centre according to where they sat In the German Reichstag the centre has been the moderate party

Centre Term having a number of special applications in various sciences In physics an example is the centre of oscillation of a pendulum, the point at which, if the weight of the body were concentrated, the pendulum would continue to vibrate in the same intervals

In optics, the centre of a lens, if a thin one, is the point at which the axis passes through the lens In engineering, the term occurs in centre chucks and centre plates

Centre Board Board or iron plate keel in small sailing boats When the use of a keel is required to give stability, the centre board can be lowered through the bottom of the receipt of the control of th the vessel It is also called a drop keel

therefrom it would be balanced in all positions. The term "relative to" is used, as the centre of gravity is not necessarily within the body, but may lie outside it. In the case of a circular ring or hoop, the point lies at the centre of the circular and therefore not in the matter of the circle and therefore not in the substance of the ring, but fixed relative to it In a paral-lelogram the point is at the intersection of the diagonals, and in a uniform rod at the

Centrifugal Force Term given to which, when a body is moving in a curved path, is equal but opposite in direction to the centripetal force keeping the body in its curved path Centrifugal force is employed in separators for butter making, drying machines and concentrators in mining

Centurion Officer in the ancient Roman army in command of a hundred men, known as a centuria, the sixtleth

part of a legion

- Cephalic Index Term used to de-note the size and class of human skulls It is anthropometric ratio of breadth to length of head Retzius devised it, about 1842, by multiplying by 100 the number representing the greatest breadth above the car level, ascertained by calipers, and dividing this by the greatest length from the glabella, or point above root of nose, to the back of the occiput The cranial index of the skull is one or two units less than the cephalic index of the living head Persons from 75 to 80 are medium-headed, below long-headed, and above broad headed

Cephalonia Largest islands of the Ionian Situated off the mouth of the Gull of Corinth, it forms with Ithaca a monarchy of Greece It produces currants, olives, figs and oranges It is 31 m long, covers 348 sq m, and Argostoli is the capital Mt Ainos, 5315 ft, is the highest point.

Cephalopoda Class of marine, free-with muscular tentacles and two or four plume-

like gills The two-gilled order, having no external shell—the paper shell of the female argonaut is abnormal—has two sub-orders These are the eight-armed octopoda, like the common octopus, and the ten-armed decapoda, with internal shells—squids with horny pens, cuttle fishes with calcareous bone, and spirulas with coiled tubes Of the four-gilled order, with external shells, only the pearly nautilus survives, they were multitudinous geologically notably the ammonites

Island of the Molucca Archi-Archi-Ceram pelago Ceram pelago Also called Strang Situated 100 m W of New Guinea, it is 200 m long and 50 m broad With a soil of crystalline and cruptive rocks its densely forested interior attracts game hunters. The interior is peopled head hunting Papuan stocks tobacco, rice, coconut and sugar are grown by the Malay coast populations It belongs to the Netherlands and is administered from Amboyna. Its area is 6600 sq m Pop 105,000

Ceramics Technical term denoting the study of the whole potter's art in every age and in every form, whether it be porcelain, stoneware, terra cotta or earthenware

Cerastes Genus of vipers ranging from Algeria to Arabia and Syria. The horned viper, C cornula, about 2 ft long, has in the male—sometimes in the female—small horn-like processes above the eyes. Its unprovoked attack may cause death within 30 minutes. The hornless C vipera is the reputed asp of Cleopatra

erberus in Greek mythology, the dog underworld He was represented with two, three or many heads, and with a snake encircling him Hercules' twelfth labour was to fetch him to earth, and take him back again One visitant, according to Virgil, sought to pacify him with a sop, and so comes the phrase "a sop to Cerberus"

erdic Saxon invader and king According to the Angle Saxon Chronicle he landed in England in 495 with his brother Cymric and a band of warriors They defeated the Britons at Charford in Hampshire and made themselves kings of the district.

Cereal Grass cultivated for edible grains As the chief source of breadstuffs cereals are of primary importance for human sustenance They contain predominantly starch, besides proteins and vitamins The outstanding cereals of temperate regions are wheat, barley, oats and rye, with an annual world harvest of 1425 million quarters. Among tropical cereals rice and millet are staple foods of hundreds of millions Breakfast cereals are grains in puffed, shredded, flaked, granulated and other prepared forms

Cerebration Action of the brain. molecular changes in the brain substance attend all mental processes in consciousness In 1853 Dr W B Carpenter, believing that these changes also continue automatically, called "unconscious cerebration" what Sir W Hamilton had previously called "latent Hamilton had previously called "latent thought" It accounts, for example, for the sudden recollection of forgotten facts

Cerebro-Spinal Fever Inflammation of the meninges or membranes investing the brain and spinal cord It may occur sporadi-cally, incited by tubercular or typhoidal microbes The more malignant epidemic type, going by such names as spotted fever, arises from a specific micro organism called meningococcus, capable of entering the body through the nose The direct injection into the membranes of a serum introduced by Flexner and Jochmann has resulted in great saving of life

Ceres minor planets It was observed by Plazzi at Palermo in 1801, in connection with an organised search for a planet that, according to Bode's Law should intervene between Mars and Jupiter Its diameter is 485 m and it is invisible to the naked eye

Ceres Roman goddess, regarded as identification of the cal with the Greek Demeter (q v).

Cerium Motallic element, its symbol is Ce and its atomic weight 140 Iron groy, malleable, ductile, tarnishing in the air, it is not found native, but is derived from its ores the so called rare earth minerals. Of these the most important is monazite containing 35 per cent of cerium oxide and 8 per cent of thorium oxide both being used in incandescent gas mantles. The sparking substance of cigar lighters and shell flight tracers,

Cernavoda Village in Rumania right bank, almost directly between Bukarest and the Black Sea port of Constanza, it was chosen for the site of the Carol Bridge, built in 1896 for the railway connecting the capital and the port. This double bridge was strategically important because it was the only bridge across the Danube between Belgrade and the Black Sea It was selzed by Germano Bulgarian forces in Oct, 1916

is ferrocerium, an iron allov with cerium, 70 per cent. Cerium is used sparingly in pharmacy.

Certificate Document for attesting signed attestation of facts is a certificate, but the word is now almost invariably applied to official or semi official documents, e.g., medical certificates, examination certificates and certificates by auditors of accounts

Other certificates are those issued by registrars to prove births, marriages and deaths Copies of these can be obtained from Somerset House, London, or the General Register Office, Edinburgh

Still another kind is the Savings Certificate (qv) first issued during the Great War

Cervantes Miguel de Spanish writer Born at Alcala in Oct 1547, the son of an apothecary, he lived for a time in Madrid and then went to Italy In 1570 he became a soldier, was taken prisoner in 1570 by the Barbary pirates Returning to Madrid in 1580, he next obtained employment as a collector of tithes He died in Madrid April 23, 1616

A scholarly man, Cervantes wrote a great deal of verse, a number of dramas, and the Exemplary Novels, which give a good idea of the life of the time He lives, however, by his immortal novel, Don Quixote published in two parts in 1605 and 1615 In 1612 and again in 1620 it was translated into English by Thomas Skelton and It has since been translated into nearly every other language of the world It tells of the extraordinary adventures of the Spanish knight, or hidalgo, Don Quixote de la Mancha

Cesarevitch Name used in Russia eldest son of the tsar It is also the name of a race run at Newmarket in Oct. This was started

in 1839 and was named after Alexander II, the Cesarevitch who was then in England

Cession Word originally meaning to persuasion It is now applied to the vacation of, or retirement from, an office the giving up of property or rights and the handing over of possessions by one country to another

Cessnock Town of New South Wales, about 25 m from Newcastle near an important coal field. Pop (1931), 13 510

Cestodes Scientific name for tapeworm family Parasitic in intestinal canals of vertebrates they usually pass their larval and adult life in different hosts. The nature worm throws out egg bearing segments that pass out, and if swallowed by a specific animal the larval stage proceeds. The consumption of this contaminated food restores the worm to its specific host. Cestodes infesting man include those derived from beef, measly pork and freshwater fish. One species matures in dogs, after having lived its larval life in man

Cetacea Order of aquatic mammals Unrelated to fishes, they are lungbreathers, simulating fishes in having the fore
limbs converted into flippers no external hind
limbs, fin like horizontal flukes instead of
vertical talls and dorsal fins of shin without
internal bones They possess lavers of olly fat,
blubber, and consume invertebrate sea food.
The whalebone sub-order with palates of
horny plates, includes the right, Greenland
and humpback whales The toothed sub order
includes cachalot, bottlenose, grampus, dolphins, narwhal and porpoises

Ceteosaurus Extinct dinosaurian reptile Its fossil re mains found in the Jurassic colites persist into the Wealden beds of the cretaceous period Examples found at Peterborough and elsewhere show it as a gigantic small headed, longnecked reptile, sometimes nearly 70 ft. long and 10 ft. high

Cetewayo King of the Zulus He became ruler in 1850 and king in 1872 Differences arose between him and the British authorities in Natal which increased after 1877 when the Transvaal was annexed The result was a war in which the Zulus were beaton and their king taken prisoner After a visit to London in 1882, Cetewayo was restored to part of his kingdom Almost at once, however, his enemies attacked him, and he was a fugitive on British soil when he died, Feb 8, 1884 Dinizulu was his son.

Cettinge Town of Yugoslavia, capital of negro It is connected with its port, Cattaro, by a remarkable zig zag road traversing the northern slopes of Mt. Lovtchen over a 3000 ft pass Little more than a walled village it has a palace, a parliament house museum and monastery Pop 5500

Ceuta Seaport of Morocco Opposite Gibraltar, it occupies a site near the classical Abyla, one of the pillars of Hercules Originally a Carthaginan outpost, it passed to Rome, then to Portugal and in 1580 to Spain It is now in the administrative province of Cadiz The chief building is the cathedral in the old town There is a railway line to Tetuan and steamboats connect with Algecias Pop 24 000

Cévennes Range of mountains in Central France, in the de-

partments of Lorère and Gard, and runs across Dartmoor and is a good centre for holiday the land for about 330 m. The name is also makers. It is reached from Moreton Hampused sometimes to include neighbouring ranges stead, 3 m. away, on the G.W. Riv. Pop. 1460 The highest point is Mont de Lozère (5650 ft.) Coal and other minerals are found and in the south, where are the Cévennes proper, are large forest areas

Ceylon Island in the Indian Ocean It since 1796, before which it was Dutch and still earlier Portuguese It is 270 m long and covers 25,500 sq m Colombo is the capital Other places are Kandy, the old capital, and the scaports of Jaffan, Trincomalee and Galle
Cevlon is mainly flat, but in the south there

are mountains, the highest peak being 8326 ft high The island produces tea, cinnamon, rubber, copra and coconuts, as well as plumbago and precious stones The British system of weights and measures is used and the unit of currency is the rupee The island has a governor and an executive council There is also a legislative council, partly elected. The demand for self-government led to the appointment in 1928 of a committee under the Earl of The recommendations of this Donoughmore committee led to the establishment of a State council elected by adults, and a ministry responsible to it Pop (1931) 5,312 548, about half being Buddhists The inhabitants are called Sinhalese

Paul French painter Cézanne Paul French painter Born vas influenced by Poussin and El Greco Swayed by the contemporary tendencies represented by Manet and Pissarro, he sought to portray nature in the presence of subtle mani-

festations of light. Some of his choicest work is now in the Louvre He died Oct. 23 1906

Chablis Town of France Situated on the Serein, 11 m. E of Auxerre, It is the centre of a district producing vintage wines of excellent quality. The name is used in Britain for French still white wines. Pop. 3020

Chaco District of S America, usually called the Gran Chaco Covering about 200,000 sq m, it is partly in Argentina, partly in Bolivia and partly in Paraquay A that region, a good deal of it is desert, but there are forests and lakes

Chad English saint He became Bishop of the Mercians about 668 and died in 672 St Chad made Lichfield into his bishopric where the cathedral is dedicated to him His feast is

kept on March 2 Chad or Tchad Lake of Africa On the border of Nigeria, it covers 10,000 sq m in the dry season and perhaps double that area in the rainy one. The Chari River flows into t and it contains islands inhabited by tribesmen Hippopotami, alligators, as well as fish of various kinds live in the lake It is partly British and partly French Chad Territor, is a French colony covering 398,905

FO m Chaffinch British songbird, a species of finch (Fringilla caelebs) The ashy-brown female, usually migrating southward without the male, breeds throughout Britain and N Europe. The male, 6 in long, with reddish breast, olive-yellow wings and white, forked tail-feathers, has sharp or sweet call notes. There are two broods of five blotched purple-grey eggs laid in compact, symmetrical nests.

Chalcedon Greek city in Asia Minor Chalcedon purple-grey eggs laid in compact, symmetrical nests.

Chalcedon Greek city in Asia Minor tt stands at the outlet of the Bosporus, opposite Istanbul It was blotched purple-grey eggs laid in compact, symmetrical nests.

Chalcedon Greek city in Asia Minor the Bosporus, opposite Istanbul It was blotched purple-grey eggs laid in compact, symmetrical nests.

Chalcedon Greek city in Asia Minor the Bosporus, opposite Istanbul It was founded about 685 B c by colonists from Megera, but later became a Roman city. Turks, who carried off the decorntions of its

Chagos Group of coral atolls S of the Maldives in the Indian Ocean On the direct route from the Red Sea to Australia, the group is administered from Yauritius Total area 76 sq m. Pop about 1000

Chaillu Paul Belloni Du French explorer Born July 31, 1835, he led an expedition into Central Africa, where he spent four years. His book, translated into English as Explorations and Adventures in Equatorial Africa, 1861, was regarded by some as fiction owing to its accounts of the strange men and animals encountered, but later it was admitted as true After another expedition he wrote A Journey to Ashango Land, 1867. Chaillu then turned his attention to Russia and a series of journeys there produced several books, including *The Viking Age*, 1889 Ho died in St Petersburg, April 29, 1903

Chain Name given to a series of loops or rings of metal linked together. There are several kinds adapted for special purposes, among these is the open link chain, the individual link being a ring of varying shape welded in large chains or brazed or soldered in others. The stud link chain has the link strengthened by a middle bar or stud while the pin and bar type has the link formed of two short bars joined at either end by pins

One of the greatest chains in the world is that used to strengthen the dome of St Paul's Cathedral, London It was put in position during the repairs of 1925-30 and weighs 30 tons

In surveying the term is used for a measuring chain of 100 iron or steel wire links, and is 22 vards in length

Chair Seat that developed from the stool by the addition of a back and sometimes of sides In the Middle Ages chairs were comparatively rare, being only found in the homes of the rich

In England, London is the centre of the chairmaking industry, but a large number are made at High Wycombe Famous historical chairs are the Coronation Chair in Westminster Abbey and the Byzantine Chair in St. Peter's at Rome.

Chairman meeting Person who presides over a Lverv limited company must have a chairman In each House company must have a chairman in each house of Parliament there is a Chairman of Committees who presides when the House sits on a committee County and district councils have a chairman or president. The mayor acts as chairman of a city or town council.

A chairman calls upon the speakers, keeps them as for a possible to the business in hand.

them as far as possible to the business in hand, and, if necessary, prevents anything like disorder. If there is voting he is responsible for seeing that it is conducted properly and usually he has a casting vote. He can declare the meeting at an end or adjourn it.

Chaise Light travelling vehicle drawn by one or more horses After the introduction of railways the vehicle became

fine buildings to adorn Istanbul A modern town called Kadikeui stands on the site Pop 30,000

The fourth general council, held here in 451, declared against the heresy of the Mono physites and made Constantinople next to

Rome in ecclesiastical importance

Chalcedony Semi precious stone A
variety of native quartz mixed with opaline silica, not crystallised but minutely crystalline and sometimes stalactitic, it is found in transparent or translucent masses in veins and rings or as seashore publics This commonest of gem stones occurs in varie gated forms, as agate, bloodstone, carnelian, chrysoprase and onyx

Chaldea Biblical place name It denoted land S E of Babylonia, with headquarters at Bit Yakin Its Prince Merodach baladan II captured and became king of Babylon, 721 B C (Isulah xxxix, 1) Later a Chaldean or neo Babylonian dynasty was established by Nabopolassar about 625, and throughout this period, which included Nebuchadnezzar s reign Chaldea denoted all Babylonia

Chalfont Si Peter The former Chalfont 3 m from Amersham contains the cottage where Milton finished Paradise Lost It is now

Chalgrove Village of Oxfordshire It is famous for the Civil War skirmish here on June 18, 1643, in which John Hampden was mortally wounded

Chaliapin Feeder Ivanovitch Russian bass singer Born at Kazan in 1873 he was a shoemaker who, through the cathedral choir, reached operatic singing in 90 meanwhile working on the railway Tiffis engagement in 1892 took him to St. Petersburg (Loningrad) in 1894 and to Moscow in 1896 He achieved brilliant successes in London in 1913 4 which were repeated in New York. He was in London, in 1926 7, and again in 1931

Chalice Sacred drinking vessel used in the Christian sacrament of the

communion or eucharist The early challees were made of horn, wood and glass, but as wealth increased of gold and silver

Chalk Earthy variety of limestone Soft and white, it contains from 94 to 98 per cent of calcium carbonate, readily soiling the fingers when crumbled It compared to the property in the formulations shall be led. prises mostly minute foraminiferous shells laid down in shallow waters across Europe during own in singlow waters across Europe during the cretaceous period Presenting extensive formations in England, up to 1200 ft thick its annual output for industrial purposes is about 6,870 000 tons It is burned for lime used in making Portland coment and, when lovigated, whiting In addition it is used in mineral water and olicloth manufacture. The Downs and other hills in the south of Investigation or of the limits of the England are of chall.

Chalk Farm District of London In the metropolitan borough of St Pancras, it has stations on the tube rall way and the L M.S., which has extensive yards here. The name is a corruption of Chalcot Farm and the place was once a favourite duelling ground

James Scottish missionary he joined the staff of the Glascow City Mission (Chamberlain Born at Camberlain Born at Camberlain 1865, after studying at Cheshunt College, well, London, June 8, 1836 son of a boot

he became a Congregational minister and in 1866 went out as a missionary to Raratonga, on the Herrey islands. He worked there for ten years, and was then sent to New Guinea On April 7, 1901, he and some followers were murdered by cannibals

Scottish divine Chalmers Thomas Born at Anstruther, March 17, 1790, he was educated at St Andrews and became minister of Kilmeny, Fifeshire, in 1803 In 1815 he removed to Glasgow, where he wrote his Problems of Poverty In 1823 he went back to St Andrews as Professor of Moral Philosophy and in 1828 became Professor of Theology at Edinburgh University A leader of the Dis ruption in 1843 he became the first moderator of the new Free Church and was chosen principal of its college in Edinburgh He died May 30, 1847

Châlons Town of France Chalons sur Marne the capital of the Marne department, stands on the Marne, 107 m E of Paris It is the centre of the trade in cham pagne, which is stored in galleries cut in limestone hills, and has breweries and boot factories. The chief buildings are the cathedral, several old churches and the town hall 10p (1931) 32,307

Near Chalons, in AD 451 was fought the great battle in which the Huns, under Attila, were defeated by the Romans and the Visi gothe It took place on the Catalannian Fields and was one of the decisive battles of the

world

Chalybeate Waters Matural waters containing minute quantities of iron salts. They are stimulant and tonic and, when sulphated, are astringent and useful for skin disease When gaseous carbonic acid is present in them they are used by 'heart' patients for bathing purposes The waters at Harrogate and Leamington are chalybeate

Originally the officer in charge of domestic Chamberlain affairs in royal households or monasteries Great Britain one such official became the Lord Chamberlain a court official who regu-lates the etiquette of the palace and acts as the official consor of plays

Corporations sometimes appoint a chamber lain, as in London, where he is trasurer of the corporation admits persons to the freedom of

the city and, in his court, determines disputes between masters and apprentices

Chamberlain Arthur Neville Born in Birmingham, March 18, 1869, he was the younger son of Joseph Chamberlain and half brother of Sir Austen Chamberlain Educated at Rugby, he was in business in the West Indies, afterwards taking part in the public life of Birmingham he was lord mayor of the city In 19 In 1915 In 1916 he was ne was ford mayor of the city. In 1916 he was appointed Director of National Service and in 1918 he entered Parliament as MP for a Birmingham division. He was Postmaster General, Minister of Health and then Chan cellor of the Exchequer in the Unionist ministry of 1922 24 and throughout the ministry of 1922 24 and throughout the ministry of 1924 29 was a most energetic and successful Minister of Health He was Chair man of the Conscrvative party organisation, 1930 31 and later 1935, and Chancellor again from 1931, retaining that post after the general election of 1935

manufacturer, he was educated at University College School, and, after a short period in business in London, went to Birmingham to join a screw-making firm owned by his relatives, courts of law in London In these questions the Nettlefolds He became a partner and, under his direction, the business prospered until in 1874 he retired to devote himself to public life He was already a member of the

public life He was already a member of the town council and the school board and an active and combative advocate of radical ideas From 1873-76 he was Mayor of Birmingham In 1876, as a Radical, Chamberlain was elected MP for Birmingham and he retained his seat for W Birmingham from 1885 until his death In 1880 he was made President of the Board of Trade under Gladstone While in the powerful exhetential reforms not office he advocated substantial reforms, not office he advocated substantial retorns, how always acceptable to his colleagues. He resigned office with them in 1885, but joined Gladstone's next ministry in Jan 1886 Re-fusing, however, to accept Home Rule he resigned in March and became one of the leaders of the Liberal Unionists. His incisive speeches had much to do with the defeat of

the Home Rule project.

Chamberlain remained out of office until 1895 when he became Colonial Secretary under Lord Salisbury He put new life into the administration of the Empire, but his policy just before the S African War was much criticised He went to Africa in 1902 and on the party of the course of the property of the p his return started a campaign in favour of tariff reform This broke the Unionist party and in 1904 Chamberlain resigned office to be free to preach his ideas He did this until his health gave way in 1906 and he was an invalid till his death at Highbury, Moor Green, his Birmingham residence, July 20, 1914 He was three times married and left two sons, Joseph Austen and Arthur Neville.

Chamberlain was a remarkably forceful speaker and an unusually powerful debater His extraordinary energy showed itself in everything he touched Although he could be, and often was, a bitter opponent, he was a remarkably staunch friend In Birmingham are several memorials of him, the greatest of which is the university, of which he was the first

chancellor

Chamberlain Sir Joseph Austen British politician The elder son of Joseph Chamberlain, he was born Oct. 16, 1863, and educated at Rugby and Trinity College, Cambridge In 1892 he entered Parliament as MP. for E Worcestershire, which seat he retained until he succeeded his fether as MP. for W Bigmingham in 1815. his father as MP for W Birmingham in 1914 His long official life began in 1895 when he was made Civil Lord of the Admiralty In 1900 he became Financial Secretary to the Treasury, in 1902 Postmaster-General, and in 1903 Chancellor of the Exchequer He was out of office between 1905 and 1915

From 1915-17 Chamberlain was Secretary for India in the Coalition ministry, resigning when the Indian Government was consured for its share in the conduct of the expedition to Mesopotamia. In April, 1918, however, he rejoined the ministry and in Jan, 1919, succeeded Bonar Law as Chancellor of the Exchequer and head of the Unionist wing of the coalition He remained outside the Unionist ministry of 1922-23, but from 1924-1929 was Foreign Secretary under Baldwin In 1925 he was made a K.G, after the signing of the Legarge Back. the coalition

of the Locarno Pact.

Chambers Term used for rooms in which barristers do their

preliminary to trials are decided, and applica-tions of all kinds in connection with forth-coming trials are made Questions of costs are often settled in chambers In the chancery division the cases in chambers are heard by masters In the King's Bench division, one of the judges sits in chambers

Chambers William Scottish publisher Born in Peebles, April 16, 1800, he was apprenticed to a bookseller in Edinburgh Soon he set up in business for himself and with his brother, Robert (1802-71), founded the business of W & R. Chambers. The brothers collaborated in a Gazetteer of Scolland and started Chambers's Edinburgh Journal which still exists as Chambers's Journal. The firm's other ventures were many included Chambers's Encyclopaedia, Chambers's Biographical Dictionary and Chambers's Cyc opaedra of English Literature, all useful works of reference William Chambers was twice lord provost of Edinburgh, and gave money to restore St Giles Cathedral He died May 20, 1883 The firm of W & R. Chambers still flourishes in High St, Edinburgh

Chambord Town of France It stands on the Cosson, tributary of the Loire, 8 m from Blois Its chateau is one of the finest in France Built by Francis I it was a royal residence till the Revolution It was bought by Henry, a grandson of Charles X, who took from here the title of count

Chambord Comte de French prince Born in Paris, Sept, 29, 1820, he was a posthumous son of the Duke of Berri and a grandson of Charles X He fied with his grandfather to England in 1830, when Louis Philippe accepted the French throne Later he established himself at Graz, where his tutor instilled into him those clerical and legitimist ideas which prevented him from succeeding as Henry V after the Revolution in 1848 He had two more chances of becoming ruler, in 1871 after the conclusion of the Franco-Prussian War, and in 1873 after the downfall of Thiers, but he refused them both, because he would not recognise the tricolour When he died, Aug 24, 1883, the senior branch of the Bourbons became extinct.

Chameleon Genus of reptiles They differ from true lizards in their telescopic tongues with viscid tips for insect capture, eyeballs moving independently beneath circular lids, opposable toes and pre-They are famed for their power hensile tails of changing colour according to their environment, but this power is limited The common species, 12 in long, ranges the African and Asiatic Mediterranean coasts There are three S Asian species, and fifty others, equally divided between Africa and Madagascar

The constellation Chameleon lies between the Centaur's Foot and the S ecliptic pole

Chamois Animal found in the Alps and other mountain areas of Europe and Asia Minor It is a kind of antelope and is remarkable for its jumping powers and surefootedness Its average height is about 2 ft and it has a brown fur and short curved horns. The sting is used for gloves and other presents. The skin is used for gloves and other purposes.

Chamonix Mountain valley on the work before appearing in court In London, range The valley, 12 m. long, watered by the

Arve, contains a village, 55 m, from Geneva, 3425 ft. high, favoured by tourists because it is contiguous to the Mor de Glace and six other glaciers Hero De Saussure first ascended Mt Blanc, 1786 Pop 2550:

Champagne Before the Revolution a province of France In the east of the country, it is the district of the Marnie and the Seine, and is flumous for its sparkling wines Its chief towns are, Reims, Troves and Soissons

There was a good deal of fighting in Champagne during the Great War, especially in 1914 and 1915. In Sept and Oot, 1915, the French conducted a great offensive in this region, but it produced little but losses

Champ-de-Mars Open square in near the Jena Bridge over the Seine, it is 1100 yds, by 550 yds., and was used July 14, 1790, for the first anniversary of the taking of the Bastille It was the scene of international exhibitions in 1867 1878, 1889 and 1900 The Effel Tower was built at one end The square commemorates annual assemblies held by the Franklish kings in March, the month of Mars

Champion One who fights the cause of the Lionibards allowed champions to fight for those who could not defend themselves owing to age,

The En. lish Lings have their champion
His duty was at the coronation of a new
sovereign to ride into Westminster Hall throw
down a gauntlet and challenge anyone who denied the right of the king or queen to succeed This ceremony took place for the last time when George IV was crowned in 1821 The office still remains and is held by the family of Dymoke or the holders of the Manor of Scrivelsby in Lincolnshire

The Seven Champions of Christendom are St. George (England), St Andrew (Scotland), St Patrick (Ircland), St David (Wales), St Denys (France), St. James (Spain), St Anthony (Italy) To day, winners of games of all kinds are called champions

Champlain Lake in the United States and Canada Situated be tween Vermont and New York States, it is 110 m. long and covers 488 sq m. It pene trates Quebec for 6 m and the Richelieu River carries its waters to the St. Lawrence It was discovered by Samuel de Champlain in 1600 Large vessles can navigate the lake in which there are 50 islands.

Champlain Samuel de French exhe became a soldier and then a sailor In 1603 he secance a solder and then a sailor. In 1603 he sailed along the St. Lawrence past where Montreal now stands and in 1603 he made a settlement at Quebec and annexed the country for France. In 1629 the English took him a prisoner to England but he returned to Canada and died at Quebec, Dec. 25, 1635.

Chanak Town of Turkey It stands at the narrowest part of the Dardanelles on the Asiatic side Fortified during the Great War it was unsuccessfully bombarded by British and French warships in March, 1915

Chancel The eastern part of a church, separated usually from the nave by a screen or railing It is also known as the choir, and is used by the clergy and their assistants in the services

Chancellor Name of several high chancellor officials In the Romani law courts there were clerks called cancellaria; because they sat behind screens or cancelli. Later the Frankish kings used this name for a royal official In England it took the form chancellar

The chancellor became important about the time of Edward I, when he took the place of the justiciar as the chief minister. He kept the great seal and when his duties were con-fined to legal matters he became Lord High

Chancellor

The exchequer had a chancellor, at first a subsidiary official under the Lord High Treasurer and then the first Lord of the Treasury In time he became responsible for the country's finances. The change took place early in the 19th century and to day the Chancellor of the Exchequer is one of the most important members of the cabinet. Other chancellors are those of the Duchies of Lancaster and Cornwall

There are in Britain chancellors of other Each university has a chancellor, usually a man of distinction in public life, while its vice chancellor, the acting head, is one of the resident members. These chancellors are elected for life Each bishop has a chancellor who is a lawver and presides over the courts of the diocese Cathedrals have chan cellors, one of the resident clergy In Germany, the Prime Minister is called the Chancellor

hancellor Richard English naviga chancellor tor in the Boaucenture he accompanied Sir Hugh Willoughby's expedition in 1563 in scarce of a N E passage to India Separated from his companions by a storm off the Lofoden Islands he found his way to Moscow and there negotiated the first English trading treaty with Russia Returning from a second visit to Moscow he lost his life in the wreck of the Bonaventure off Aberdeenshire, Nov 10, 1556

Chancellorsville  $_{
m ginia}^{
m Viflage}$  of  $_{
m To~m}^{
m Vir}$ from Richmond and was the scene of a great battle in the American Civil War, May 1-5, 1863 The Federal Army, under Hooler, was attacked by the Confederates under Stonewall Jackson and Stuart and forced to retreat across the Rappahannock, with a loss of 16,000 mon, and many guns and rifles Jackson was fatally wounded when returning from a reconnaissance

Chancery Court of the Lord Chancellor Its origin dates back to the time of Edward the Confessor, during whose reign royal petitions became so numerous that they were referred to the chancellor In 1873 the court was made one of the three divisions of the supreme court of justice The Judicature Act, 1925, gives it jurisdiction over actions in which redress cannot be obtained at common law. The court consists of the Lord Chancellor and six judges divided into groups of three The acting head is the into groups of three master of the rolls

Term formerly used to do-Chancre Term formorly used to de-but now applied almost evolusively to the primary lesion of syphilis, which used to be called a hard or Hunterian chancre. It appears as a small, hard, translucent swelling at the infected spot

Chanctonbury Hill on the S Downs about 3 m from Steyning and just over 800 ft. high The trees on the summit make it

There are vestiges ; a conspicuous landmark of a prehistoric earthwork (Chanctonbury Ring) and of a Roman camp

Duke of English title borne Chandos Duke of English title borne femily of Brydges Sir John Brydges was made Baron Chandos of Sudeley in 1554 and his descendant, James, the 9th baron, was made a duke in 1719 He built a magnificent house at Canons Middlesex He died in 1744 Sir John Chances was a noted soldier in the

time of Edward III and one of the first of the

Knights of the Garter

Changeling Child substituted for en-Changeling other, usually at birth There was formerly a belief that babies, before christening, were in danger of being stolen by fairles and that any weakly or peevish child

was a changeling

Tso Lin Chinese politi-Chang Manchuria, he became Governor of Fengtien and later of other provinces and was, when civil war began, the most powerful man in the northern part of the country. In 1925 he entered Peking and remained supreme there until 1928, when he was driven out by the Nationalist force from Nucling He was fatally wounded by a bomb on June 21, when returning to Manchuria

Channel Ferry Service of barges the English It was established by the Royal Engineers during the Great War with a depot at Richborough in Kent. A day and night service was continued from 1914 until the armistice A train ferry service was also established in 1918

Channel Islands Group of islands in the English Channel, near the const of France It consists of Jersey, Guernsey, Alderney and Sark, and many small islands, including Herm, Brechou and Jéthou Their area is 73 sq m The islands belong to England, but have their own laws and methods of government. Most of the neople speak French. Vegetables, fruit and tlowers are grown for the English market and cattle rearing and fisheries are carried on The islands are a favourite holiday resort and can be reached by steamer from Southampton and Weymouth, while there is a regular air scretce with Southampton and London Pop 90,000 See ALDERNLY, GUERNBEY, JERSEY. FTC

Channel Tunnel Proposed tunnel between England and France The tunnel, about 31 m long, is to contain twin tubes, through which electric trains would run from a point between Dover and Tolkestone to Wissant, near Calans, shortening the journey from London to France b" about 14 hours The cost has been estimated at about \$25,000,000 In 1876 a company was formed to carry out a similar idea, but the work

formed to carry out a survey was stopped in 1882
In 1930 a committee reported in favour of the project, but suggested that it should be the project of the p done by private enterprise The Government, however, decided against it, presumably on the advice of the Committee of National Defence Channing William Ellery American Rose at Newbort.

Channing William Ellery American Rhode Island, April 7, 1780, he was educated at Harvard and was minister of a Congregational church at Boston from 1803 till his death on Oct 2, 1842 Chauning was a Unitarian and his sermons and writings exercised great influence in both America and England.

Chant Form of sacred song sung on a few In the Church of England the psalms are usually chanted In some In some Nonconformist churches certain passages of scripture are chanted or sung Chanting is also part of the service in the Roman Catholic The earliest form was called the Church Ambrosian because introduced by S. Ambrose of Milan It was superseded by the Gregorian

Chantilly Town of France It stands on the little River Nonette, 25 m from Paris Well known for its racecourse, on

which the French Derby is run it gives its name to a kind of lace Pop 5100

Chantilly is famous for its châteaux, one, a beautiful building called the Chatelet, gating from the 16th century, the other the m.gni-ficent Grand Château, built in the 19th century by Henry, Duke of Aumale, a son of Louis Philippe, on the site of a historic structure destroyed at the Revolution It is built in the Renaissance style round a courtvard and, with its art and other treasures, was bequeathed by the Duke to the Institut de France Near by is the Château d'Enghien, which dates from 1770

Chantrey Sir Francis English sculptor Born in Derbyshire, April 7, 1781, he began life as a portrut painter in Sheffield Soon, however, he moved to London, where he became known for his sculptures In 1818 he was elected R A and he died Nov 25, 1841

Chantrey's most famous work is perhaps "The Sleeping Children" in the cathedral at Lichfield. His chief statues are "William Pitt" Lichfield. His chief statues are "William Flow (Hanover Square, London), "Canning and Roscoo" (Liverpool Town Hall), "Dear "Christ Church Oxford), "Viscound Roscoo" (Liverpool Town Hun), Dental Jackson" (Christ Church, Oxford), "Viscount Melville" (Old Pallament House, Edinburgh) "Sir Joseph Banks" (British Museum) and "James Watt" and "Sir John Malcolm" (Westminster Abbey) He also wrought some notable equestrian statues

Chantrey left £150,000 which eventually came into the hands of the Royal Academy to be used for the purchase of works of art It is known as the Chantrey Bequest. In 1904 a select committee of the House of Lords issued its report on the Bequest and made certain recommendations as to its administration The pictures bought with this money, nearly 200 in

number, are in the Tate Gallery

Chantry Chapel in a cathedral or church in the Middle Ages it was not uncommon to build a chantry, which often contained the tomb of the dead man in which masses are regularly sung or chanted for his There are fine chantries in Winchester Cathedral and in Westminster Abbey

Chanty Song sung by sailors when at The leader or chanty man, sings one or two lines and the rest of the crew emphasising certain words of the song Some of these sea chanties have become famous, an example being "What shall we do with the drunken sailor" Also spelled "shanty"

Chapbook Little, stitched tract. It consisted usually of a vulgarised version of a popular story or religious treatise and was sold by chapmen or itinerant booksellers Chapbooks were first printed in France for the populace after the invention of the printing press and were introduced into England early in the 16th century Chapel Place devoted to Christian worship In cathedrals and large

In cathedrals and large

churches a chapel is a part of the building railed off from the main part and provided with an altar Such are the lady chapels and other chapels in the English and other cathedrals and churches Some of these were built by a particular family as burial places An example is the Bathurst chapel at Circnester The places of worship in colleges and schools are also called chapels, such as the chapel at King's College, Cambridge, and the one at King's College, Cambridge, and the one at King's College, the word chapel for their places of worship, but most of them now prefer the word church

In printing offices the workmen call their trade union groups and meetings chapels. The head of the group is called the father of

the chapel

Chapel-en-le-Frith Market town of Derby shire It is 20 m from Manchester, on the LMS Rly The industries include paper making, and near are limestone quarries and coal mines Pop 5283

Chapel Royal Place of worship atcourt The chief chapel royal is in St James's
Palace, London The chapels royal have a
dean, sub dean, priests in ordinary and gentle
men and children of the choir The Savoy
chapel, London, is still called a chapel royal
There is a chapel royal at Holyrood St
George's chapel, Windsor is a chapel royal

Chaplain Priest or minister officially discharging specific non parochial duties. He may be attached to the forces or to public or private institutions. There are 36 chaplains to the king at the English court who form the college of chap-lains, and he has chaplains in Scotland Other important personages such as lord mayors and mayors, have chaplains There are chaplains at schools and colleges, at embassles and prisons The House of Commons has a chaplain There are Anglican Roman Catholic and Free Church chaplains in the British Army, Navy and Air Force In the army they are under the Chaplain General, in the navy under the Chaplain of the Fleet and in the air force under the Chaplain in Chlor of the Air Force All are ranked as commissioned officers

Chaplin Charles Spencer American film Chaplin artist Born in Camberwell, London, in 1889, he was a son of Charles Chaplin a variety comedian. He started work early in life in the variety business and eventually played leading parts in Fred Karno s companies in many of the music halls and variety theatres of England From 1910 till the end of 1913 he interpreted comic sketches in the United States For the next four years he appeared in moving pictures of the Key stone Comedy Co, made at Los Angeles, California Early in 1918 he formed his own company for producing such pictures and California Early in 1918 he formed his own company for producing such pictures and erected large studies at Hollywood Among the most successful films which he has released are Shoulder Arms The Kid The Gold Rush The Circus and City Lights (1931) In 1936 he appeared in a new serious film, Modern Times

Chaplin Viscount. English politician and sportsman Born Dec 22, 1841, the son of a clergyman, Henry Chaplin went to Harrow and Christ Church, Oxford He inherited Blankney Hall and estates in

won a memorable Derby In 1876 he married Lady Florence Leveson Gower, a daughter of the 3rd Duke of Sutherland (d. 1881)

In 1866 Chaplin entered Parliament as M P In 1866 Chaplin entered Parliament as M P for Mid-Lincolnshire, from 1885 1906 he represented the Sleaford division and from 1907 16 the Wimbledon division In 1885 he took office in the Unionist ministry as Chancellor of the Duchy of Lancaster, from 1886 92 he was President of the Board of Agriculture, and from 1900 5 of the Local Government Board In 1916 he was made a viscount, a title which passed on his death, May 29, 1923, to his son, Eric Lord Chaplin was regarded to his son, Eric Lord Chaplin was regarded as a protagonist of the agricultural interests and a protectionist of the old school

Chapman Arthur Percy Francis English cricketer Born Dec 3, 1900, he was educated at Uppingham and Pembroke College, Cambridge He represented both school and university at cricket and in 1920 played for the Gentlemen against the Players In county cricket he played for Buckingham shire and then for Kent In 1922 and 1924 Chapman went to Australia with cricket teams In 1926 he was chosen captain of England for the last of the five test matches and he was again captain for four of the test matches of 1930. In the interval he had captained the team that, in 1928 29, won four out of five of the test matches in Australia. In 1931 he had the test matches in Australia In 1931 he became captain of Kent. He is a fine batsman and a wonderful fielder

Chapman George English poet Born in Hertfordshire in 1559, he went to Trinity College, Oxford He wrote both comedies and tragedies The former are not remarkable, the latter, Bussy d'Ambors The Admiral of France, etc., dramatisations of contemporary French polltics, have recently been interpreted as dramas à clef designed to satirise English politicians His best work is his translations of Homer's Ihad and Odussen his translations of Homer's Ihad and Odyssey He died May 12 1634

Chapter Permanent body of canons and probendaries of a cathedral or collegiate church It is usually presided over by the dean. In the Church of England the chapter, with the dean, forms the governing body of the cathedral and in theory cleets the bishop The Roman Catholic Church has chapters for its cathedrals

The place where the chapter meets is called the Chapter House This is often connected with the cathedral by the closters Notable examples are at Salisbury, Lincoln, Canter-bury, York, Worcester, Hereford and West-

minster Abbey

Char Fish of the salmon type It varies in weight from a few ounces to two pounds and frequents Luglish lakes, particu-It varies in larly Windermero, Coniston and others in the North Country It is also found in the lakes of Scotland and Ireland It is valued as a table fish

Charade Kind of riddle, which has de veloped into an indoor game It is presented as a dramatic sketch, the answer to which is a single word Each of the scenes of the sketch represents one syllable or more of the word Often an additional scene suggests the whole word

Charcoal Carbonaceous residue obtained by the smothered combustion went to Harrow and Christ Church, Oxford He inherited Blankney Hall and estates in Lincolnshire and became known on the turk, especially after 1867, when his horse Hermit 93 per cent, is a porous solid which, when burned as fuel is flameless and smokeless. It is an ingredient in gunpowder, and serves also as a filter, a gas absorbent, and non-conductor packing for refrigerators. Used div it is prescribed for flatulence in cachets in 20-60 gr doses or in charcoal biscuits. It produces a form of iron called charcoal iron which yields the best or charcoal tinplates Animal charthe best or charcoal tinplates Animal char-coal, or bone black, destroys vegetable dyes and alkaloid poisons

Charcot Jean Martin. French physician. He was born in Paris, Nov. 29, 1825 and took his medical degree in 1853 In 1860 he was appointed Professor of Pathological Anatomy to the Medical Faculty, and two years later became attached to the Salpctrière, where he established a neurological clinic His work in nervous and mental diseases became famous, and he was a pioneer in the use of hypnotic methods of treatment. medical research work also included work on muscular atrophy, and certain affections of the joints in locomotor ataxy have been named Charcot's disease He died Aug 16, 1893

Charcot Land District of the Antarctic Ocean. It lies to the S of Graham Land and is named after the French explorer Jean Baptiste Etienne Auguste Charcot, who did valuable surveying work in this region in 1903, 1909 and 1910

Borough and market town Somerset It is 15 m fr Taunton and 143 m from London, on the S and G W. Rlys The manufactures include lace There is a school dating from 1671 which was refounded in 1928 Pop (1931) 4053

Charge Word meaning load or burden It is applied to the ammunition in a firearm, to the electricity in a battery and to the explosives in blasting operations

Legally, a charge is a mortgage, 1 c., an equitable transfer of a title to goods or property as security for a loan. The word is also used to denote responsibility and, in military and sporting matters, a violent advance

Charge In heraldry a device upon a cont those things which keep their own names (proper), or bear technical names such as chevron, etc (common)

Chargé d'Affaires Member of the fourth class in the diplomatic service Those above them are ambassadors, envoys and ministers Sometimes a chargé d'affaires is the head of a legation, eg the Braitish legation in Cuba is under a chargé d'affaires

Charing Cross District of London the Strand it is the official centre for the measurement of taximeter distances and other purposes Northumberland Avenue and White-hall radiate from home and Theology of the control o

purposes Northumberland Avenue and White-hall radiate from here and Trafalgar Square is on the north side Here is Le Sueur's fine equestrian statue of Charles I The chief building is the station of the Southern Rlv Charing Cross Hospital is in King William St. The name is that of the village of Charling, or Chering Here Edward I erected a cross in memory of his wife, Eleanor This was pulled down in 1647 and 200 years later a modern one was built A scheme for removing the station to the other side of the river and

Parliament declined to agree to it, but the idea, was again under consideration in 1931

Chariot Two-wheeled, horse-drawn vehicle, used in ancient times for war, the chase, and processions The Greeks and Romans gave up their use at an early date except for racing, but in other countries they were used for war, particularly by the Davidous and Eritors. Persians and Britons.

Charity Commission Body set Great Britain in 1853 Its function is to supervise and, if necessary, remodel existing charitable organisations, and it has power in certain cases to apply charitable moneys to purposes different from those indicated in a will, where the provisions of the will are obscure The headquarters are at Ryder Street, St. James's, London, SW 1

Charivari of pans and kettles and by hissing and groaning directed against some unpopular man or woman The name Charrary has been given to various satirical journals and is the sub-title of Punch

Charlecote Village of Warwickshire It is about 5 m. from Warwick and is famous for its park. The house, which stands in a 250 acre deer park, was built by Sir Thomas Lucy, the supposed original of Shakespeare's Justice Shallow

Charlemagne Frankish king and Roelder son of the Frankish King Pepin, he was
born about 742 In 768 he and his brother,
Carloman, inherited their father's kingdom.
In 771 by Carloman's death Charles became
King of all the Franks
Charles was a great coldinary

Charles was a great soldler He conquered the Saxons and the Lombards; he fought in Spain against the Saracens and in Germany

Spain against the Saracens and in Germany against the Magyars He was crowned emperor in Rome in 800 His capital was Aix-la-Chapelle, where, Jan 28, 814, he died.

Charlemagne was fond of the society of learned men and did a good deal to set up schools He loved music, was interested in theology, and was a builder of churches and palaces He was strong in body and mind, with great ambitions. A powerful and determined great ambitions, a powerful and determined will, and interests far in advance of his age legitimate son was his successor His only His Life was written by his secretary Louis and friend Einhard.

Charleroi Town of Belgium. It is m E of Mons and 9 m S W of Namur On a great coalfield, its extensive iron, chemical and glass industries are facilitated by canalised connections with Brussels and N France

connections with Brussels and N France
Charlerol's strategic importance was emphasised in Aug 1914, when Germany's
invading armies fanned out towards Mons
Charlerol and Namur, hoping to envelop the
Allied forces While the British were fighting
at Mons, the French were attacked near
Charlerol on Aug 21 The Germans forced
their way over the Sambre, entered Charlerol
and compelled the army under Laurezac to
retreat in some disorder The engagement
lasted until the 24th Pop (1931) 28,612

Charles I. King of Great Britain and Born at Dunfermmodern one was built. A scheme for removing the station to the other side of the river and line, Nov. 19, 1600, the son of James VI making a fine new bridge over the Thames was recommended by a royal commission and Britain, he became Prince of Wales in 1616, accepted by those concerned. In 1930, however, after the death of his elder brother, Henry

In 1625 he became king and married Henrietta Maria, a French princess, whose steady ad herence to Roman Catholicism led her husband into trouble Other troubles came through his friendship with the unpopular Duke of Bucking ham and still more through his own extravagance and obstinacy

nam and still more through his own extraragance and obstinacy
Haring quarrelled with his Parliament,
(1629 40), his chief advisors being Wentworth
(Earl of Strafford) and Laud. He raised money
in various lilegal ways and forced a liturgy
upon the Scots In Nov, 1640, the Long
Parliament met and Laud and Wentworth
were put to death. Two years later the civil
war began At first the king was successful,
but after Naseby in 1645 his fortunes quickly
declined. He gave himself up to the Scots at
Newark in 1646 They handed him over to
the English, who kept him a prisoner while
negotiations and fighting went on alternately,
or sometimes concurrently Charles was tried
before a court set up by Parliament, found
guilty and, on Jan 30, 1649, beheaded at
Whitehall He left three sons, Charles II,
James II and Henry, Duke of Gloucester, and
three daughters

Charles II. King of Great Britain and Charles II. Ireland Born in London, May 29, 1630, he was the second son of Charles I His eldest brother having died in infancy he was made Prince of Wales In 1645, his fathers cause being lost, he took refuge in the Scilly Islands and then in Jersey In 1647 he joined his mother in Paris, but was in Holland when Charles I was executed and he became nominally king In 1650 he ac cepted the throne of Scotland and went to that country His army invaded England, but was beaten at Worcester and Charles managed, with great difficulty, to get back to France For nine years, surrounded by a court of exiles, he lived in France and the Netherlands, generally in needy circumstances

In 1660, having issued his declaration of Breda, Charles returned to England and was halled as king He reigned for 25 years, showing a creat deal of wisdom, although by

Breda, Charles returned to England and was halled as king He reigned for 25 years, showing a great deal of wisdom, although by no means without difficulties and humiliations He kept on good terms with France and by unscrupulous methods maintained a fair amount of personal control at home. In the end he became a Roman Catholic and he died, without legitimate issue, Feb 6, 1685 His wife was Cathorine, a Portuguese princess His numerous mistresses included the ladies who became Duchesses of Portsmouth and Cleveland as well as Nell Gwynn and Lucy Walters, the mother of the Duke of Monmouth Charles is remembered for his amours and his wit, his good temper and his interest in and science are equally worthy of mention

wit, his good temper and his interest in art and science are equally worthy of mention

Charles Name of seven rulers of the Holy Roman Empire The first was Charles the Great or Charlemagne (7 r)

The second was his grandson, Charles the Baid He got the western part of the Frankish realm in 843 but was not crowned emperor until two years before his death, Oct. 6, 877 Charles III, called the Fat, was emperor from 882 until deposed in 887 He died Jan 18, 888

Charles IV became King of Bohemia in

Charles IV became King of Bohemia in 1346 when his father, John, was killed at Creey He was also recognised as king in Germany and in 1355 was crowned emperor He prompligated the Golden Bull of 1346 He died Nov 29, 1378, leaving two sons, Wenceslaus and Sigismund Charles V was the great emperor who is noticed below

Charles VI, a son of the Emperor Leopold I was born Oct. 1, 1685. His early days were spent in trying to make himself King of Spain In 1711 he succeeded his brother Joseph as emperor and he died Oct. 20, 1740, leaving an only child, a daughter, Maria Theresa Charles VII became elector of Bavaria in 1726 when his father died. In 1742 he was chosen emperor as a rival to Francis I, the husband of Maria Theresa, but he never really ruled. He died Jan. 20, 1745.

Charles V Holy Roman Emperor and King of Spain. Born at

Charles V Holy Roman Emperor and King of Spain Born at Ghent, Feb 24, 1520, he was the elder son of Phillip, son of the Emperor Maximilian, and Joanna, daughter of Ferdinand and Isabella of Spain In 1506 when his father died, Charles inherited the Netherlands, the lands received by Phillip from his mother, the helress of the great Burgundian duke, Charles the Bold In 1516 he became King of Spain by right of his mother, whose reason had gone, and with that crown secured possessions in Italy In 1518 he inherited the Austrian duchies from his grandfather, Maximilian In 1520, lord of this immense realm, he was chosen emperor

inherited the Austrian duchies from his grandfather, Maximilian In 1520, lord of this
immense realm, he was chosen emperor
For nearly 40 years Charles, an active and
conscientious ruler, was the most powerful
man in Europe Although not a great soldier
he carried on several wars, on the whole
successfully He crushed Francis I of France,
his great rival, and at one time the Pope was a
prisoner in his hands In Germany, however,
he could not compose the bitter differences
that the Reformation engendered. Again and
again he tried to reconcile the warring parties
and give some kind of unity to the country
It was only when these efforts failed that he
took to arms At Muhlberg, in 1547, he broke
the power of the Protestant princes, but in a
few years the defection of Maurice of Saxony
forced him to fly for his life In 1556 he
resigned the crown of Spain to his only son,
Phillp II, and then the Austrian lands to his
brother Ferdinand. He retired to Yuste, in
Spain, where he died Sept. 21, 1558 Charles
married a cousin, Isabella of Portugal Don
John, the hero of Lepanto, was an illegitimate

Charles Last emperor of Austria Hungary Born Aug 17, 1887 he was a son of the Archduke Otto The murder of the Archduke Francis Ferdinand in June, 1914, made him heir to the throne and, on the death of Francis Joseph in Nov, 1916, he succeeded He reigned until the end of the war, when he abdicated both in Austria and in Hungary He died in Madeira, April 1, 1922, having made two futile attempts to recover his Hungarian kingdom Charles married Zita, a Bourbon princess, and had eight children, the eldest, Francis Joseph Otto, Inheriting his claims

Charles Name of ten kings of France was the first and the Emperor Charles the Fat the second In their day France was part of the Frankish Empire Charles III, called the Simple, was King of France from 893 to 922, but lived until 929 Charles IV reigned from 1322 to 1328 Charles IV, a son of Charles V, reigned from 1380 to 1422 He became insane, and in his reign Henry V of England conquered France and succeeded Charles as king

Charles as king
Charles VII., a son of Charles VI, spent much
of his life in reconquering France In this he
was aided by Joan of Arc, and in 1439 was

22, 1461. Charles VIII., a son of Louis XI, became king in 1483 He spent his best years in trying to get possession of Naples and other parts of Italy He died April 7, 1498 Charles IX. was a son of Henry II and Catherine de Medici He became king in 1560 and reigned, with his mother directing affairs, until his death, May 30, 1574

Charles X was a son of Louis XV. and a brother of the unfortunate Louis XVI Called the Count of Artols, he left France in 1789 and lived chiefly in Scotland until 1814 He returned when another brother became King of France in that year, and in 1824 himself succeeded to the throne He was not, however. equal to the task of ruling, and in 1830 he abdicated. He died in Italy, Aug 2, 1836 His heir was his grandson, the Count of Chambord

Charles First King of Rumania Born April 20, 1839, he was a member of the Hohenzollern family In 1866 he appeared as a candidate for the throne of Rumania that country having practically separated itself from Turkey Flected as prince, he governed the country successfully in spite of various obstacles In 1881 he took the title of king and was recognised as such by the European powers Charles, or Carol, as he was called, died Oct 10, 1914 He married the princess known as Carmen Sylva, but having no son, was succeeded by his nephew Ferdinand

Charles II, or Carol II, was a son of Ferdinand Born Oct. 15, 1893, he was married in 1921 to Helen, a princess of Greece Later he left this lady and contracted another union, at the contraction of the greece that the greece the same time renouncing the succession 1927, therefore, his young son Michael succeeded to the throne, but in June, 1930, Charles returned to Rumania and was accepted as king

Charles Names of four kings of Spain The first was the Emperor Charles V. who was King of Spain from 1518 to 1556  $(q\tau)$  Charles II, a son of Philip IV, was Ling from 1666 to 1700 On his death without heirs a European war broke out for the possession of his vast empire Charles III, a son of Philip V, was king from 1759 to 1788 He was the third of the Bourbon kings of Spain Charles IV a son of Charles III, was king from 1788 to 1808 when he abdicated in favour of Joseph Buonaparte

Charles Name of fifteen kings of Sweden The first of any importance was Charles IX He was the youngest son of Gustavus Vasa and became king in 1604 He reigned until 1611 Charles X, who was his grandson, became king when Queen Christina abdicated in 1654 and reigned until 1665 He abdicated in 1654 and reigned until 1665 He was successful in war against the Poles and the Danes His son Charles XI had become king on his father's death but only began to rule in 1692 He was the father of Charles XIL  $(q \tau)$ , the greatest of Swedish kings, who succeeded to the throne on his death, April 15 1697

The next king of this name was Charles XII, in whose reign Norway was united to Sweden He died Feb 5, 1818, having recognised the French Marshal Bernadotte as his heir Bernadotte became king as Charles XIV (q r.), and his grandson Charles XV. reigned from 1859 to 1872

Charles XII. King of Sweden. Born June 17, 1652, the only son of Charles XI, he became king in 1697. Before he was 21 years old he had proved himself a capable soldier. He defeated the Danes and then the Russians, after

crowned king He reigned until his death, July which he made himself master of both Poland and Saxony In 1708 he invaded Russia and in July, 1709, his army was utterly routed at Poltava The king fled to Turkey and did not return to his own country until 1714 On Dec 18, 1718, attacking a fortress in Norway, he was killed, it is said that the fatal bullet was fired by one of his own men His Lafe was written by Voltaire

Charles XIV King of Sweden. Jean Baptiste Jules Bernadotte was born Jan. 26, 1763, and entered the French Army. He attracted the notice of Napoleon and married a relative of the Buonapartes He was at one time Minister of War, but held also high commands in the field, and was made a marshal. In 1810 Bernadotte was selected as heir to the throne of Sweden and became king in 1818 Meanwhile, Norway had been added to Sweden, and he ruled the two countries until his death March 4, 1844 The present royal family of Sweden is descended from this French soldier

Charles Austrian prince and soldier, usually called the Archduke Charles A younger son of the Emperor Leopold II, he was born Sept. 5, 1771 In 1790 he was made Governor of the Austrian Netherlands, but soon after the outbreak of war in 1792, he took command of an army and became the most successful of the Austrian leaders of that time He won several victories over the french armies between 1796 and 1799, but was defeated when, in June 1799, he invaded Switzerland In 1805 after a period of retirement, he took command in Italy and in 1809 he defeated Napoleon himself at Aspern. Napoleon however, was successful at Wagram. after which Charles retired. He lived until April 30, 1847 One of his sons, the Archduke Albert (1817-95), was also a famous soldier.

Charles Duke of Burgundy, called the Bold. Born at Dijon, Nov 10, 1433, he was the son of Philip the Good, Duke of Burgundv As Count of Charolais, he waged war against the French king and continued this policy after he became duke in 1467 His aim was to add Alsace, Lorraine and Switzerland to his possessions and to make himself a king By a trick Louis XI of France took him prisoner, but released him Charles then attacked the Swiss who defeated his troops at Granson and Morat He then attacked

Nancy, where he was killed June 5, 1477.
Charles is admirably depicted by Scott in
Quentin Durward and Anne of Geierstein Hehad no sons, so left his land to his daughter Mary who married Prince (afterwards Emperor) Maximilian They were the grandparents of Charles V

Charles Edward Stewart prince, known as the Young Pretender, and to the Jacobites as Charles III. Born in Rome, Dec 31, 1720, the elder son of James Edward, the Old Pretender. he was educated at the court of the exiled Stewarts in Rome

The Jacobites decided to attempt a recovery of the throne, and in July, 1745, the young prince landed in Scotland with a few companions He was soon at the head of an army panions He was soon at the nead of an army which followed him to the south. He took possession of Edinburgh, routed the English army at Prestonpans and on Dec. 5 reached Derby There, however, his advance stopped. He led a retreat to Scotland, and on Calloden Moor was caught by the pursuing English. His army was shattered; he himself owed his life

to the loyalty of his followers, by whose aid he made his way to France

The rest of his career was uneventful lived in France and elsewhere in Europe for some years until his death Jan 31, 1788 His

remains are in S Peter's. Rome

Charles Martel Frankish prince A Pepin, he was born about 690 and became a soldier and mayor of the palace. The Frankish Lines at that time were feeble folk, and Charles was the real ruler of their kingdom, which he enlarged by conquest. In 732 he defeated a great army of Saracens at Tours, and so won his title of Martel, or hammer He died Oct 22, Charles was the grandfather of Charle 741 magne (q v )

Charleston Name of several cities in the United States The largest is a scaport of S Carolina It stands at the union of two rivers, the Ashley and the Cooper, and has a good harbour, 7 m from the sea The chief industry is the export of cotton and the government has a navy yard here Charleston was founded in the time of Charles II and one or two of its old buildings still stand Here the Civil War began by the bombardment of Fort Sumter by the Northerners in 1861 It was the state capital 1772 20 Dep. (1930) 62.265 The chief industry is the export of cotton in 1773 80 Pop (1930) 62,265

The Charleston is a dance which became very

popular in the United States in 1925 and was soon taken up in Great Britain

originally a negro dance
Charlock (Wild mustard, brassica sina
pistrum) Cruciferous plant helonging to the cabbage family It is found in corn fields and on rough ploughed land It is an annual, about 2 ft. high with bright yellow four petalled flowers and rough leaves with toothed edges. The pods are angular and beaked and each contains a row of dark brown seeds

Charlotte English princess She was born in London Jan 7 1796, the only child of George IV and his wife Caroline of Brunswick She was betrothed to the Prince of Orange, but in May, 1816, was married to Leopold of Saxe Coburg, who became King of the Belgians She died in childbirth Nov 7, 1817

Charlottenburg industrial district of Berlin, on the Spree, immediately west of the capital It derives its name and existence from the castle built here between 1695 and 1707 for Charlotte, the wife of Frederick, first King of Prussia Its chief industries are chemical products iron foundries, porcelain, pottery, broweries, candles and soap and it contains also a famous technical high school and the Berlin waterworks It was a separate municipality until 1920 when it was included in Berlin

Charlottetown Canada, the capital of Prince Edward Island It does an import and export trude The town was named after the wife of George III Pop 12,357

Charlton District of London In the boroughs of Greenwich and Woolwich, it is 8 m from London, on the S Rly It stands near the river and has become an industrial centre with engineering works etc Here is Charlton House, a mansion built from designs by Inigo Jones Chariton Athletic is a professional association football club

harmouth Seaside village of Dorset.
It is situated on the month

of the Char, 2 m from Lyme Regis and 6 m from Bridport, on the GW Rly Charmouth was once a Roman station and the surrounding district contains remains of ancient earthworks

Charnwood Forest District in shire It is near Loughborough and covers about 20 sq m A hilly region, its highest point is Bardon Hill (912 ft) The Cistercians have a monastery in the forest, erected in 1846 and called Mt St Bernard Good building stone is obtained in the forest.

Charolais

Former division of France
Its capital was Charolles,
39 m W N W of Macon The countship of
Charolais passed to Philip of Burgundy, who
conferred it upon his son, afterwards Charles
the Bold. It was united to the French crown in Former division of France 1771 The district is traversed by the Mountains of Charolais, which rear the renowned Charolais breed of oxen

Charrington Frederick Nicholas Eng-Feb 4, 1850, he was educated at Brighton College and worked among the poor in the East Ind of London. He founded the Tower Hamlets Mission and at the Great Assembly Hall, which he built in the Mile End Read, he organised and carried on a great religious and philanthropic work He stood out as an advocate of tem perance He was elected to the Borough Council of Stepney and from 1889 95 was a member of the London County Council He died on Jan 2, 1936

Chart Map used in navigation. British the Admiralty, and before being sold are officially corrected to They show the land as visible to those afloat, including lights and guiding marks, and indicate the depth in fathoms and nature of the sea floor, togetl with all dangers and helps to navigation They include ocean general, and coast charts, harbour plans, and physical, or wind and-current, charts.

harter Written document granting privileges or rights It is usually unted by the sovereign. The most famous granted by the sovereign. The most famous is the Great Charter or Magna Carta (q, r), but many others were granted by the early kings A number were granted to towns which obtained many privileges in this way. To day boroughs obtain incorporation by the issue of a charter and the first mayor is called the charter mayor Any large place can apply for a charter of incorporation, as Walthamstow and other places did after the Great War A chartered accountant is a member of a society that has been incorporated by Royal Charter

Charterhouse English form of the The houses established in England by the thusian Order were called Charterhouses Car The most famous is the one in London it was dissolved at the Reformation, and on its sito in 1611 Thomas Sutton founded a hospital Connected with it was a school at which Thackeray and other great men were educated The present buildings include a chapel and a hospital or almshouse where a number of old men live

Charterhouse School, long in Charterhouse Square, and one of the famous English public schools, was removed in 1872 to Godalming There it has large and handsome buildings, including a beautiful chapel, and has accommondate the chart 100 beautiful chapel, and has accommondate the chart 100 beautiful chapel.

dation for about 700 boys

Charter Party Agreement by which relief in various metals. For this purpose whole or part of a ship to a person called the tools are used, although much of the fine native charterer, for the conveyance of goods on a particular vovage or for a specified period It sets out the liabilities of each party to

the agreement and must bear a sixpenny stamp

Chartism Political movement of the 19th century In 1838 an organisation of reformers in London put forward a charter which contained six suggested reforms These were the abolition of the property qualification for members of Parliament, pav-ment of members, vote by ballot, manhood suffrage, annual parliaments and equal electoral districts

Called Chartists, the advocates of these ideas soon became a powerful body. In 1840 they presented a petition to the House of Commons signed by over a million persons. There were riots in 1841 and 1842, after which less was heard of them until 1848. In that year under Fergus. O'Connor and Ernest. Jones the Chartists were very active On April 10, 1848, they assembled on Kennington Common to march to Westminster, and the authorities, thoroughly alarmed, enrolled 200,000 special constables under the Duke of Wellington The meeting, however, was a failure and no pro-cession to Westminster was attempted, though a petition with 2,000,000 signatures, many being fictitious, was taken to Parliament After this little was heard of Chartism but during the next 60 years, four of its six demands were granted.

Chartley Village of Staffordshire It is 8 m from Stafford, on the LNE Rlv Chartlev Hall, once the seat of Earl Ferrers, is a modern house In its park there was until 1905 a herd of white cattle, said to be the only one of its kind in England

Chartres City of France The capital of Eure-ct-Loir Department, it is 55 m from Paris The ancient Autricum, it grew up round its cathedral which, rebuilt in the 13th century, is one of the most beautiful in the world The majestic statuary of the triple lateral portals, the south tower, the incomparable stained glass representing 5000 figures, and the crypt are supplemented by the Renaissance sculpture of the choir screen and the 16th-century octagonal spire of the north

tower Pop (1931) 25,357

The title Duke of Chartres was borne by Robert, a grandson of Louis Philippe He died Dec. 5, 1910

Chartreuse Name given to a choice liqueur It is made by a secret process from sweetened spirit mixed with cordinis or alcoholic extracts of various kinds of herbs It was prepared originally at the Grand Chartreuse Monastery near Grenoble, but is made now by Carthusian monks in Spain There are two well-known kinds, viz, the yellow and the green

The Grand Chartreuse, the oldest and perhaps the most famous house of the Carthusian Order, is in the mountains, 12 m from Grenoble in France The buildings now belong to the State

Charybdis To the ancients a whirlpool in the Strait of Messina It was supposed to be caused by a sea monster was supposed to be caused by a sea monster who lived on a rock there Opposite was another monster called Scylla who devoured those who escaped from the whirlpool, hence the phrase "Between Scylla and Charybdis" Chasing Term applied to the art of Chasing Term applied to the art of Chasing Term applied to the art of old church and the ruins of a castle Here, from

Indian work is done with the simplest of appliances Benares work in brass is an example of decorative design in flat chasing The term chasing is used also for the process of cutting screws with a special tool upon a lathe

hasseur Light infantry or cavalry man in the French Army Regiments of these were first formed in 1743 and they did good service in the Great War are known as chasseurs à pied and chasseurs à cheral, and there are also chasseurs Alpins and chasseurs d'Afrique The word comes from chasser, to hunt

hassis Originally meaning a window frame, the word is now widely used for that portion of a motor vehicle which consists of the wheels, frame and machinery, but excludes the body The chassis and the body are frequently manufactured by different makers, being provinces of the engineer and coachbuilder respectively

Chastelard Pierre de Boscosel de-French poet He accompanied Mary, Queen of Scots from Franco to Scotland in 1561 Falling madly in love with her he twice hid himself in her private apart-ments For the second offence he was hanged at St Andrews in 1563

Chat Name used for several birds of the thrush family The whinchat and the stonechat are general in Europe, others in Australia and N America The yellow-breasted that the transfer of the property of the state of t chat has the power of mimicking the songs of other birds

Chatalja Village near istanom in 1912 the Turks built fortifications through it called Chatalja lines, to protect their capital against the Bulgarians in the first Balkan War They were attacked in force from Nov 17 to Nov 19, when the Bulgarians, unable to make any progress,

withdrew Château French word for a residence At Château first it described a castle, but later came into use for a manor house châteaux of France, especially Chambord and others in the Loire district, are famous

Chateaubriand Francois René, writer Born at S Malo, Sept. 4, 1768, he went to the United States in 1791 In Englished. he published his Essai sur les Révolutions (1797) His most famous book, Le Génie du Christian religion from the literary and humanistic point of view In 1809 he published Les Mariurs, which demonstrates the superiority of Christian theology over pagan mythology Among his later works are Rene, Le Dernier des Abencerages and the autobiographical Mémoires d'Outre tombe From 1822 24 he was French ambassador in London He died in Paris, July 4, 1848, and was buried on Grand-Bey, one of the islets off S Valo

Château Gaillard Fortress of garded as the strongest of its kind It was on the Seine, near Les Andelys, and was built by Richard I when Duke of Normandy Taken by King Philip in 1204, it fell into decay and

May 31 to July 21, 1918, there was flerce fighting between Germans and Americans in the final Allied offensive

Châtellerault Town of France On the Vienne, 19 m. from Poitiers, its chief features are the 16th century towers which guard the stone bridge con-necting the town with its suburb of Chateau-neuf The Duke of Hamilton bears the title of Duke of Châtellerault, given to an ancestor in 1548 Pop (1931) 17,704

Chatham City and port of Ontario On the Thames, it is 65 m from London, by the OPR and the ONR. Pop (1931) 14,569

Another Chatham is a city and port of New Brunswick. This is on the Miramichi River with a station on the CNR. Pop 3500

The Chatham Islands are a group in the Pacific Ocean They cover 375 sq m and belong to New Zealand, 536 m away The chiof island is Chatham, covering 321 sq m, and Waitangi is the chief settlement. Pop 550

Chatham Scaport, market town and on the Medway, 34 m from London, on the S Rly An important naval depat. industries centre in the dockyard which covers more than 500 acres and has works for building and repairing warships, as well as barracks, arsenals, etc The forts are obsolete, but Fort Pitt is used as a school Upnor Castle dates arsenals, etc The 1942 Upnor Castle units Pitt is used as a school Upnor Castle units There are some fine Although a separate munici war memorials pality Chatham forms one town with Rochester and Gillingham Pop (1931) 42,996

Chatham Earl of English statesman William Pitt, a son of Robert Pitt, was born in Westminster, Nov 15, 1708, and went to Eton and Trinity College, Oxford He entered Parliament in 1735 as M P for Old

He entered Parliament in 1735 as M P for Old Sarum, and there made a reputation by his attacks on the Premier, Sir Robert Walpole. From 1746 55 he was Paymaster General In 1756 Pitt formed, with the Duke of New-castle, the ministry which carried on the Seven Years' War, and was thus largely responsible for the British victories in Canada, India and on the seas In 1761 he left office because his colleagues would not declare war on Spain, but in 1766 returned to form a ministry with the In 1766 returned to form a ministry with the Dule of Gratton He was created a pear as Earl of Chatham, but by now his health was seriously impaired, and in 1768 he resigned The last 10 years of his life, passed mainly at Hayes Place, Kent, were marked by his fitful appearances in the House of Lords to

speak against the policy of coercing the American colonists. A seizure after one of these speeches ended in his death at Hayes, May 11, 1778 He is buried in Westminster Abbey

Chatham ranks as one of Britain's greatest He was a magnificent orator and statesmen. a commanding personality, with a range of vision far greater than that of his contemporaries, and his lofty patriotism is un questioned. See HAYES.

Chat Moss District of Lancashire It and consists of land drained and made valuable George Stephenson won fame by building a railway line across it It covers about 12 sq m., and on it Manchester has an aerodromo

Chatsworth Residence of the Duke of Devonshire In Derbyshire, it is 3 m from Bakewell and stands in an chatsworth of Devonshire In Derby-Great Fire it was the scene of markets, page shire, it is 3 m from Bakewell and stands in an entry and tournaments. It contained a pillory enormous park through which the Derwent two crosses and probably the Mermaid tavern.

flows. It contains some valuable pictures and sculptures In the Ionic style it was built between 1687 and 1706, but the N wing was added later. The great palm house was pulled added later 'down in 1920

Chattanooga City of Tennessee, the Tennessee River 150 m. from Nashville, and has considerable trade Pop 61,900

The city gives its name to one of the great battles of the civil war fought Nov 23 25

1863 Here Grant defeated the Confederates, or Southerners, under Braxton Bragg The hattlefield has been made into a patient park battlefield has been made into a national park

Chatterton Thomas English poet, He was born at Bristol Nov 20, 1752, and educated at Colstons bluecoat school. He wrote some poems which he attributed to a 15th century writer whom he called Rowley, and submitted them to Horace Walpole in 1769 Walpole, having shown the documents to Gray and Mason, who pronounced them forperies, returned them. Chatterton committed suicide in London, Aug 24 1770 24, 1770

Chaucer Geoffrey English poet. The vintner, he was appointed in 1357 a page to Elizabeth de Burgh, wife of Lionel, third son of Edward III Two years later he served under the king in his French campaign and was taken prisoner For the next 20 years, during the first half of which he was frequently employed as the king's event abroad his affairs ployed as the king's agent abroad, his affairs were prosperous, but shortly after he sat as knight of the shire for Kent in the Parliament of 1386 he was deprived of his offices, and it was not until 1394 that he was granted an annual pension of 220 He died in London, Oct. 25, pension of £20 He died in London, Oct. 25, 1400, and was buried in Westminster Abbey

Chaucer's first considerable poem, the translation of The Romaunt of the Rose, was written about 1369 Between 1370 and 1386 he produced The House of Fame, The Legend of Good Women and Troilus and Crescide He completed his great work, The Canterbury Tales, between 1386 and 1389 The first collected edition of his works was printed in 1532

Chauvinism Excessive patriotism, the jingoism The word came from a patriotic character in Le cocarde tricolore, 1831, and another in Scribe's Le soldat laboureur name Nicolas Chauvin, he was one of Napoleon's veterant who spoke of his master and his deeds

veterans who spoke of his master and his deeds in the most adulatory way

Cheadle Market town of Cheshire It is
Stockport, with stations, Cheadle and Cheadle
Hulme, on the LMS Rly It formerly con
sisted of three separate villages, Cheadle
Hulme, Cheadle Moseley and Cheadle Bulkley
Cotton printing and blasching are the main

Cotton printing and bleaching are the main industries Pop (1931) 18,409

Cheadle Market town of Staffordshire from Stafford In a coal mining district it has silk factories and metal works Pop 6200

Cheam District of Surrey It is 12 m from London on the S Rly Near is Nonsuch Park, where Henry VIII It is 12 m began his great palace

Cheapside Street in London. It runs from S Paul's churchyard almost to the Bank of England Before the

Cheddar Village of Somerset. It is the Blackwater at Maldon 2 m from Axbridge and 1291 canalised between Chelmsford Irom London, on the GW Rly It is famed for its caves and its cliffs through which a road has been out, and for a variety of hard cheese town It is 29 m from London

Cheese Nutritious article of food pre-pared from milk With or without a lactic ferment starter, the milk curd, or casein, is congulated by rennet or an acid, separated from the serum or whey, and pressed into solid masses

Hard cheeses include the chief English triefies. Gloucester, Stilton, Cheddar, Gloucester, Stilton, varietics. Cheshire and Wensleydale, and also the Dutch, Canadian and French Gruyère cheeses Of soft or cream cheeses the best known is Camembert. Roquefort is made from the milk of ewes, some Swiss and French cheeses are made of

goat's milk

Cheetah Animal of the cat-like car-has longer limbs than the leopard, tiger, or llon, with non-retractile, blunt claws, and catches its prey in chase It is found in Africa, Western Asia, and India, and is easily tamed and domesticated

Chefoo Treaty port of N China It stands at the end of the Shantung peninsula, at the entrance to the Gulf of Chih-li and about 100 m from Wei-hai-wei The harbour is protected by a breakwater The port has a considerable foreign settlement The port has a considerable foreign settlement and trades in silk, etc Pop (1931) 131,659

Cheiromancy Art of telling fortunes by examining certain lines and marks on the palms of the hands It is also known as palmistry

Cheka Sceret police in Soviet Russia It made its appearance in 1918 to put down opposition to the government.

Cheke Sir John English scholar Born Cheke in Cambridge, June 16, 1514, he was educated at St John's College In 1540 he was elected the first regius professor of Greek in the university, and in 1544 was made tutor to Prince Edward, afterwards Edward VI Appointed Secretary of State during the brief reign of Lady Jane Grey, he was pardoned by Queen Mary, who, after imprisoning him in the Tower, gave him leave to go abroad in the autumn of 1554 In the spring of 1556, however, he was treacherously abducted between Brussels and Antwerp by emissaries of Philip II Brussels and Antwerp by emissaries of Philip II of Spain, and conveyed back to England, where, to avoid being sent to the stake, he abjured his Protestantism and was released He died in London, Sept 13, 1557

Chekov Anton author Chekov Anton author He was born at Tagaurog on the Sea of Azov, the son of a small shopkceper and the grandson of a serf He took his medical degree at Moscow University in 1884, but practised little save during the cholera opidemic of 1892-93 He wrote short stories, and in 1886 the collection of them won him a popular success In 1887 appeared his first play. Iranov. followed in 1896 by The Pavlovich Russian won him a popular success In 1887 appeared his first play, Iranov, followed in 1896 by The Scagull, which achieved a great success in 1898 at the Moscow art theatre His three later plays, Uncle Iranya (1899). The Three Sisters (1901) and The Cherry Orchard (1904) were all produced there. In 1901 he married the actress, Olga Knipper He died of consumption, July 2, 1904, at Badenweller

It has been canalised between Chelmsford and its mouth

Chelmsford City and borough of Essex, also the county town It is 29 m from London, on the LNE RIV It is an agricultural centre, with a cattle market, corn mills, broweries, etc It is also an engineering centre actively connected with the wireless industry Pop (1931) 26,537

Chelmsford Baron English title borne by the family of Thesiger Frederick Thesiger, born April 15, 1794, served in the navy, but afterwards 1794, served in the navv, but afterwards became a barrister From 1840 to 1858 he was a Conservative MP, and he was Solicitor-General and then Attorney-General, 1844-46, and Attorney-General, 1852-53 In 1858 he was made a peer and Lord Chancellor, and he was Lord Chancellor again, 1866-68 He died Oct 5, 1868 Oct 5, 1868

His son, Frederic Augustus Thesiger (1827-1905), the 2nd baron, was a soldier He commanded the British forces against the Zulus in 1878-79 until superseded by Sir Garnet Wolseley Frederic John Napler Thesiger became the 3rd baron on his father's death in 1905 He was Governor of Queensland, 1905-09, and of New South Wales, 1909-13, and Vicercy of India, 1916-21, being made a vis-count on his retirement. In 1924 he was First Lord of the Admiralty From 1926 to 1928 he acted as Agent-General (temporary) for New South Wales

Chelsea Borough of the county of London On the N side of the Thames, between Westminster and Fulham, with stations on the district and West London extension Rlys, it is a popular residential district, especially for artists The chief buildings are the old church with its interesting tombs and memorials, and the Royal Hospital for dischled colding with its great hold built. for disabled soldiers with its great hall, built by Wren The Physick garden of the Apothe-caries' Society is notable

Chelsea has associations with Henry VIII, Sir Thomas More, Carlyle and other famous men. Crosby Hall has been rebuilt on the site of Sir Thomas More's garden There is a More chapel in the old church Carlyle's house in Cheyne Row is a Carlyle museum There is an important welfare centre built by Lord Melchett in Manor St. Chelsea China was produced in the 18th century Pop (1931) 59,026

Cheltenham Borough, market town and watering place of Gloucestershire It is 941 m from London, on the GW Rly, in a beautiful position near the Cotswold Hills, and its mineral springs attract sufferers from gout and liver complaints Races are held in the town, which is also a hunting contre Cheltenham College, opened in 1840, is one of the great public schools. Cheltenham Ladies' College, founded in 1854, has an equally high reputation The name comes from the little River Chelt. Pop (1931) 49,385

Chemin des Dames French road in the Aisne department. Constructed to facilitate conch travelling in the 18th century by ladies (dames) of the royal family, it extends along the Craonne ridge After their defeat on the Marne duced there. In 1901 he married the actress, Olga Knipper He died of consumption, July 2, 1904, at Badenweller

Chelmer River of Essex It rises on the Hertfordshire border and flows across the county for 45 m until it falls into

Nov 2, the whole road The Germans drove back the Allied troops and crossed the Aisne, May 27, 1918, but after their defeat in July, a counter offensive, lasting until Oct. 12, finally secured the road

Chemist One who prepares and sells medicines and drugs In Great Britain, since 1868, every person practising as a chemist must pass certain examinations and have his or her name on the register of the Pharmacoutical Society

A consulting or analytical chemist analyses food and other substances, and experiments in the hope of producing fresh compounds Many

are employed by large industrial firms, The government chemist is a public official whose duty it is to analyse specimens of food and drink submitted to him His offices are 13 Clement's Inn Passage, London, WC2, and the Custom House, EC3

Chemistry Science dealing with the composition of matter, the laws of chemical change, and the relation between the properties and composition of substances The chemical changes which occur permanently affect the character and properties of substances, and are distinguished from those effects brought about temporarily by physical forces such as heat, electricity and magnetism Chemistry had its origin in the cult of

alchemy, which was concerned with the search for the philosopher's stone, the clixir of life The experi and the transmutation of metals mental work of the alchemists led to many discoveries, and, in comparatively recent times, the pure science of chemistry emerged The names of Stahl, Lavoisier, Boyle and Priestley in the 18th century and Dalton in the 19th are associated with the foundations of the modern science

Inorganic chemistry treats of the origin, properties and changes of all elements except carbon, mineralogical chemistry deals with the composition of minerals and rocks, while agricultural chemistry is concerned with the problems of soils, eto

The second great division, organic chemistry, treats of the innumerable compounds of carbon Biochemistry is a highly specialised section concerned with the chemical problems of

living things Physical chemistry is the third great division,

dealing with the physical proporties of sub-stances in relation to chemical changes, thus linking chemistry to physics Chemistry now forms part of the curriculum at the universities It is fostered by the Chemical Research Board, with a laboratory at Teddington, and the Chemical Society, Bur lington House, London, W The Institute of Chemistry, at 30 Russell Square, London, W C consists of fellows (FIC) and associates (A.I C) admitted after examination There is

also a society of chemical industry in London INDUSTRIAL CHEMISTRY AS A CAREER Chemists are now employed constantly in almost every productive industry Those who intend to adopt this profession must receive systematic training in chemistry and allied subjects The best posts are obtained by those who have obtained degrees or diplomas as a result of full time training at a university or college Juniors who have matriculated may obtain posts as assistants with commencing salaries of from £50-£100 per annum they may then receive the necessary training by evening classes

Newly qualified chemists are being offered

salaries of about £250 per annum or more in the cases of those who have shown a special aptitude for research

As in other professions, the prospects are good for those with Leen interest in science and

good personality

The official organisation for the profession is The Institute of Chemistry of Great Britain and Ireland, 30 Russell Square, London, W C 1 Fuller particulars as to training, prospects, etc may be obtained from the Registrar

Chemnitz City of Saxony, Germany It is 56 m from Lolpzig and specially famous for its textile factories and engineering works It stands in a coal mining district and its school of mines is celebrated. The fortifications have become promenades and the abbey grounds a pleasure garden Pop 335,982

Cheops King of Degypo. The fourth of the fourth of the fourth of dynasty The Chembis (or Chemmis) of Diodorus, he built the Great Pyramid as a sepulchre His date is given as 3733 3666 Bc.

Chepstow Port of Monmouthshire It chembers are the mouth of the Wws 15 m from stands near the mouth of the Wye, 15 m from Monmouth and 132 from London, on the G W

Part of its fine old castle remains The church of S Mary is partly Norman In 1916 Chepstow was made a national shipyard and extensive works were erected Pop (1931) 4303

Cheque Negotiable instrument in comments it is defined by the Bills of Exchange Act, 1882, as "a bill of exchange drawn on a banker payable on demand" It must bear a twopenny stamp If crossed, i.e., with two parallel lines drawn across the face either with or without the words "and Co," it must be paid into an account

Cheques are endorsed on the back by the payer. They can be for any amount, but the banker need not meet one unless he has funds with which to do so. It is his business to see that the signature of the customer is genuine and he may be hold liable for negligence in this matter. Before 1918 the stamp on a cheque was a penny

There are various devices to prevent the forgery of cheques, one being a machine which, using two colours of indelible ink, forces the words into the paper, making any alteration practically impossible A fireproof paper has

also been invented for cheques

Chequers Official residence of the Prime Minister of Great Britain It is 3 m from Princes Risborough The house stands in a park of 1500 acres and contains some relies of Cromwell A Tudor building, it was inherited by Sir Arthur Lee, later Viscount Lee of Farcham, who, in 1917, presented it to the nation

Cherbourg Scaport and naval station of France It is 239 m by rallway from Paris, at the ond of the Cotontin peninsula. It has two harbours, one naval and the other commercial There are large docks and works for the building and repairing of warships, as well as barracks storchouses, hospitals, etc. An immense breakwater forms a roadstead for transatlantic and other large

liners Cherbourg was strongly fortified in the 19th century Pop 37 461

Cherokee Race of American Indians Originally in Virginia, they were, about 1780 driven S to the Carolinas and Georgia The whole nation all of whom

Cherry Tree of the rose order A native wild and cultivated varieties They grow well in Kent There are several varieties, the best for eating purposes being the white hearts Cherries are imported from France and Belgium The morello cherry is used for making cherry brandy. The wood of the cherry tree is used brandy The wood of the cherry tree is used for walking sticks CHERRY BRANDY Liqueur made by steep-

ing morello cherries for six months or more in brandy The cherries must be dry and clean, and each one pricked with a needle Allow a dozen blanched bitter almonds and 3 oz of the cherries must be stated as a six of the s sugar to every pound of fruit Half fill each bottle with fruit before adding the brandy, cork well and store in a cool dry place till the liqueur is ready for use

Chertsey Market town and urban district of Surrey It is on the Thames, 191 m from London, on the S Rly It has a trade in agricultural produce In the Middle Ages Chertsev had a large Benedictine abbey of which a few remains exist. Pop (1931)

Cherubin The second of the nine orders of angels, of which scraphim are the highest They are described in Ezekiel i 5-13 and their representation in the Ark of the Lord (Exodus xxv) and in Solomon's Temple (i Kings vi) was scemingly a permissible infraction of the second commandment. The word is the Hebrew plural of cherub, and means "fulness of knowledge"

Chervil Blennial plant with small white flowers It has long been used as a potherb for flavouring, as it has large leaves with an agreeable smell resembling parsley. A bulbous variety produces a fleshy root similar to the parsnip It grows in the E of Europe and the W of Asia.

Chervonetz Russian monetary unit Instituted under the under USSR, in 1922 as part of the New Economic Policy The chervonetz equalled 10 pre-war roubles, or £1 is 11d, and notes were issued, interchangeable 25 per cent. in money, and 75 per cent in goods or securities

Cherwell River of England It rises at Charwelton in Northampton-shire At Oxford it is called the Cher and joins the Thames It is 30 m long

Chesapeake Bay Opening of the Atlantic Ocean It penetrates north for about 200 m, and washes the shores of Maryland and Virginia About 12 m wide at the entrance, it wides to about 40 and receives many affect to delete to about 40, and receives many rivers, including the Potomac, Rappahannock, James, Susque-hanna and York Baltimore, Newport News, Portsmouth and Norfolk are on its shores On Sept 5, 1781, there was an indecisive naval battle in the bay between the English and the

French

The Chesapeake was the name of the US frigate captured after a fight with the British frigate Shannon off Boston June 1, 1813

Chesham Urban district and town of Buckinghamshire It stands on the little River Chess, 26 m from London, on the LNE Rly The industries are con corned with the making of wooden articles, and there are flour mills Pop (1931) 8809

are Christians, were removed in 1838 to Indian Cheshire County of England It lies territory They number about 40,000 Cheshire between Derbyshire and Wales with the Mersey separating it in part from Lancashire In the N it is almost a suburb of Manchester and Liverpool, in the centre and S an agricultural district, and in the E a moorland area. In the centre are salt mines and meres are numerous in the south. The district between the Dec and the Mersey is called the Wirral. The county covers 1025 sq. m.

Chester is the county town Industrial centres are Birkenhead, Crewe, Stockport, Stalybridge and Hyde Wallasey is chiefly a Macclesfield, Knutsford, residential town Runcorn and Congleton are smaller places Middlewich and Northwich are the salt towns Apart from the Dec and the Mersey the chief rivers are the Weaver and the Bollin Cheshire was long a palatine county and owed much to its situation on the borders of Wales The Prince of Wales bears the title Earl of Chester The Cheshire Regiment, which has its depot at Chester, is the old 22nd of the line Pop (1931) 675,190

Cheshunt Urban district of Hertford-shire It stands on the Lea. 14 m from London on the L N E Rly It is a market gardening centre. The chief buildings are the great house where Wolsey lived and the college used by the Countess of Huntingdon's connection for training ministers until it was sold to the Church of England in 1905 The connection built a new college at Cambridge, giving to this the name of Cheshunt College Pop (1931) 14,651

Chesil Bank Shingle bank in Dorsetto the mainland, 16 m long, it is 20-40 ft high and 170-200 yards wide Of considerable size at Portland, the shingle diminishes towards the land, where the bank is fine gravel and sand

hess Game played upon a checkered board divided into 64 squares, with 32 chessmen equally apportioned between two opposing players Each player is equipped, in contrasting colours, light and dark, with king, queen, two bishops, two knights, two rooks or castles and eight pawns Each piece can be moved in a way peculiar to itself, the queen having the widest range of movement. The contest simulates military strategy and tactics Any exposed piece is liable to capture and removal from the board, except the king, which cannot be removed The purpose of each player is to bring the opposing king into an exposed position from which he cannot retire, this checkmate ends the game

Devised in India and passed to Persia, chess was brought by the Arabs through Spain to Europe Certain medieval changes revolu tionised the game which has since produced a succession of brilliant masters. In 1935 Dr. Mar. Enwe (Dutch) defeated Dr. Alekhine, world chess champion since 1927

Chest Upper compartment of the body, called by biologists the thorax separated from the lower or abdominal compartment by a concave membrane or diaphragm. it is a closed, conical box (the backbone and breastbone being united at the sides by the ribs) containing the heart, lungs, gullet, windpipe, bronchial tubes, important nerves, blood-vessels, thoracic glands, muscles and fat, all enclosed by the skin The normal chest measurement of adult man is from 33 to 40 in. Malformations of the chest cause it to be long, flat, barrel shaped, triangular or pigeon breasted,

Chester City and river port of Cheshire, also the county town It stands on the Dee, 179 m. from London and 16 from Liverpool, and is served by the GW, LMS and Cheshire Lines Rlys, and by canals The cathedral is a magnificent building embodying various styles of architecture The 14th century walls, the most perfect in England, completely encircle the city Another notable feature is the shopping centre known as the Rows, where the shops are reached by stairways from the street Many old houses still stand The finest, Stanley Palace, was, in 1928, given to the city by the Earl of Derby Another is God's Providence House

The town hall is modern, as are the school of art, and the Grosvenor Museum The King's School is an old foundation with new buildings. There are a city cross and remains of the castle, part of the site of which is occupied by the assize court and the barracks. Races are held on the Rodee, where the Chester Cup is a notable event. The city has some manufacturing industries Pop (1931) 41,438

The Chester was the name of a light cruiser that took part in the Battle of Jutland.

Chesterfield Borough and market town of Derbyshire It is 12 m from Sheffield, on the L.M.S. Rly It has a Gothic church (All Saints) with a twisted market spire In the Stephenson memorial is a museum of engineering There are engineering works, textile factories, coal mines, and canal com munication with the Trent. The River Rother flows through the town Pop (1931) 64,146

Chesterfield Earl of English title borne by the family of Stanhope since 1628 The first earl was Sir Philip Stanhope, a Nottinghamshire landowner, and the title passed in 1883 to Henry Soudamore Stanhope, who belonged to a younger branch of the family, and became the 9th earl His son, the 10th earl was lord steward, 1910 15 Most of the artists have been said. Most of the estates have been sold

Chesterfield House in South Audley St, London, was built by the famous 4th earl in 1750 Bought from Lady Burton in 1919 by Viscount Lascelles, later Earl of Harewood it was again

for sale in May, 1932

Chesterfield 4th Earl of English statesman and author English Philip Dormer Stanhope was born Sept. 22, 1694, and educated at Cambridge In 1716 he became MP for St Germans and acted with the Whigs In 1726 he succeeded his father, and in 1728 was sent to the Netherlands as am bassador In 1733 Walpole deprived him of his office of Lord High Steward, and he was hence forward one of that statesman's bitterest opponents. In 1745 46 he was Lord Lieutenant or Ireland, and from 1746 to 1748 a Secretary He retired in 1748 and lived a of State

secluded life until his death, March 24, 1773 Chesterfield won a high reputation as an orator and writer, but little of his work is now remembered except the Letters to his Son and the Letters to his Godson The son was his natural son, Philip Stanhope, who died in his father's lifetime The Earl is the subject of a scathing letter from Dr Johnson, who dedicated to him the plan of his Dictionary and received in return but scant acknowledgment

Chester-le-Street Urban dist district stands near the River Wear, 6 m from Durham

rickety or hollowed. The Royal Chest Hospital, on the LNE Rly The chief industry is in City Rd., London, EC 1 coal mining and the chief building the old church with memorials of the Lumleys. Near are Lumley and Lambton castles. Pop (1931) 16,639

Chesters Estate in Northumberland on the line of Hadrian's Wall It contains ruins of Cllurnum, the second largest Roman stationary fort in the country The museum in the park has a fine collection of Roman remains In 1930 the estate was sold

Chesterton Gilbert Keith English ton in 1874, he was educated at S Paul's School, London, and studded at at the Slade School. He began his literary career in 1900 with a volume of poems, and during the next 30 years produced books and articles in great numbers marked by a dolightful voin of paradox

A student of literature he wrote The A student of literature ne wrote interpretarian Age in English Literature, and mono graphs on Browning, Diokons Shaw, and Chaucer his novels include The Napoleon of Notting Hill, The Flying Inn, Manalive, The Poet and the Lunalics and the series of detective storics associated with the name of Father Brown he is a fine poet, and in Mague he proved himself a dramatist. He was, too, a constant contributor to the daily and weekly press notably in The Illustrated London News, The New Witness and his own G K's Weekly. His versatility is shown by his Short History of England, his articles in defence of Christian faith and morals, such as The Superstition of Divorce, and the illustrations of some of his books In 1922 he became a Roman Catholic

Chestnut Fruit tree allied to the beech The sweet or Spanish chestnut is extensively cultivated and the trees reach to 100 ft. The nuts will ripen in England, but they are largely imported, and are eaten raw, roasted, boiled or as marrons glaces. The chest nut which grows freely in England is the horse chestnut. The fruit of this is not edible

Chetwode Sir Philip Walhouse English 1869, he was educated at Eton and joined the 10th Hussars in 1889 He served in S Africa 1899 1902, and in 1914, having in 1905 such that the factor of the served to the served ceeded to the family baroneter, was appointed to command a cavalry brigade on the western front The command of a division followed and in 1916 he went to Egypt, where he led a mounted force In 1917-18 he commanded an army corps under Allenby, and he had a large share in the conquest of Palestine From 1919 20 Chetwode was Military Secretary at the War Office 1920 22 Deputy Chief of the General Staff, 1922-23 Adjutant General, and 1923 27 Commander at Aldershot He was made Chief of the General Staff in India in 1928 and Commander in Chief there in 1929

Chevalier Albert English comedian A son of the French master at Kensington Grammar School, he was born March 21, 1861, and had French Italian and Welsh blood in his veins For some years he was Welsh blood in his veins For some years he was an actor on the legitimate stage, associated with the Kendals, the Bancrofts, John Clayton and John Hare In 1891 he started as a coster comedian at the Pavillon music hall, and plaved also at the Oxford, the Tivoll and the Canterbury Later, becoming author and rict ment in England and America and gave over 1000 recitals at the small Queen's Hall, London His last appearance (1922) was made in a play called My Old Dutch, based by himself and Arthur Shirley on his own famous song He died July 10. 1923

Chevalier Maurice French actor He started as a boy with small engagements on the music hall stage in Paris In 1913 he appeared at the Folies Bergeres, but military service soon interrupted his career In the Great War he was made prisoner by the Germans, but he escaped to reappear in Paris and to make his London debut with Elsie Janis He then became a cinema actor Recent films are The Merry Widow, The Man from the Folies Bergères and The Beloved Vagabond

Chevening Village of Kent It is 3 m from Sevenoaks and 22 from London, on the S Rly. Chevening Park is the seat of Earl Stanhope Pop 1000

Cheviot Hills Range of hills in North-burghshire They extend for about 38 m along the borders of England and Scotland highest point is Cheviot, 6 m from Wooler, which reaches 2676 ft. The Tyne, Till and other rivers rise in the Cheviots The hills are suitable for sheep rearring, and a special breed found there are famous for their wool, which is called cheviot, and is used to make tweed cloth

Chevron Mark in the shape of the letter men and policemen on the sleeve of the coat to indicate rank or good conduct A sergeant in the British army wears three chevrons, a corporal two, and a lance corporal one above the elbow Chevrons given for good conduct or long service are worn below the elbow. The chevron is also one of the ordinaries in heraldry Chevron Club exists for non commissioned officers in the army and similar ranks in the navy, marines and air force Its house is at 74 St George's Square, London, S W

Chevy Chase English ballad of the 15th century It gives an account of the battle of Otterburn between the English and the Scots in the Cheviot Hills

Chewing Gum Masticatory prepara-tion much used in the USA. It is insoluble, its chief purpose being to cleanse the mouth and keep it moist. Con sisting usually of a natural gum or resin called chicle, obtained from the bully tree, it is flavoured, often with mint, and sweetened The supply is obtained mainly from Guatemala.

Chiang Kai-Shek Chinese politician A soldier, he became a follower of Sun Yat Sen, and was made head of the military school In 1925 he was chosen Commander-in-Chief of the forces directed from Nanking, and he led these to the capture of Pekin and to other victories over the northerners. In 1928 he was chosen President of the Republic, and in 1930 conducted, simultaneously, campaigns against the Communists in the south and the northerners who still refused to accept his rule. The latter in 1932 set up the independent state of Manchaltaneously (company) (company) chukuo (formerly Manchuria) under the protoction of Japan, and in 1935 Japan still further increased her power in No China In 1936, however, there were signs of an improved relationship between the two countries

Chianti Name of a popular Italian wine Made from grapes grown in Central Italy, particularly in Tuscany, it is similar in type to claret or Beaufolais, and contains usually about 11 per cent. of alcohol.

The name comes from the hills on which the vine is grown

Chiaroscuro Italian word meaning bution of light and shade in a work of pictorial art Rembrandt, alike in his paintings and in his etchings, may be regarded as the great master of chiaroscuro

Chiastolite and alusite It forms a constituent of the Skiddaw slates and some metamorphic rocks It is a silicate of alumina, and is distinguished by the curious cruciform design, seen when a crystal is out across, and due to wedge shaped patches of carbonaceous matter included in the crystal.

Chicago City of Illinois, United States, the second largest in the country. It stands on the S side of Lake Michigan and is one of the greatest distributing centres, especially of foodstuffs, in the world, and a great railway centre Electric lines serve the city and suburbs The Michigan River runs through it The city, which covers a vast area, is surrounded by a belt of forest land

The chief thoroughfare is Michigan Avenue with buildings that rival those of New York. These include the Wrigley Building, the Masonic Temple and the offices of the Chicago Tribune The Field Museum is one of the richest in America In 1930 the Temple of Commerce was opened. In Lincoln Park is the Academy of Sciences Both the University of Chicago and the North Western University have fine buildings Soldiers' Field is a memorial of the Great War

Chicago's printing works are important, but the preparation of food is the chief in-dustry immense numbers of cattle and pigs are handled in the stockyards. It is a great wheat market, with considerable shipping Land is continually being reclaimed from the lake In 1931 the city's finances were in a bankrupt condition and thousands of teachers and municipal employees were unpaid. A World's Fair was held in 1933 to celebrate the city's centennial anniversary, and to illustrate the progress of science and culture throughout the world It was called "The Century of Progress Celebration" The city grew up round Fort Dearborn, built by settlers, in 1804 Pop. (1930) 3,376,438

Chichester City and borough of Sussex It is 70 m from London on the S Rly, and 2 m from the sea. A canal runs to Chichester harbour The cathedral has a notable spire and detached belfry.

The cattle markets are important, and it has a brewing industry Pop (1931) 13,911

The title of Earl of Chichester has been borne since 1801 by the family of Pelham The Earl's seat is Stanmer Park, Lewes, and his eldest son is called Lord Pelham

hickenpox Acute infectious disease of childhood It is most common between the ages of two and six Doctors call it varicella Usually epidemic and believed to be due to a very minute microorganism, it is characterised, after little pre-liminary feverishness, by a skin eruption chiefly on the trunk The vesicles, sometimes oval, reach their full growth in a day They are filled with a clear fluid that after three or four days dries up. leaving a scaly crust which

boracle powder to relieve itching, and above all, prevent scratching of the face. Even if the child does not seem ill, a doctor should be called in at the first sign of a rash to diagnose the trouble. Incubation period is 14 16 days

Chickpea Annual leguminous plant (cicer artetinum) Cultivated in India, Egypt and the Mediterranean basin for food, it is also called gram It is bushy and bears two-seeded pods It exudes viscid drops containing exalic acid crystals which are used in domestic medicine The peas are ground into bread flour, parched, bolled, or given to cattle

Chickweed Name given to several weeds, mostly species of arctaria It is given as a food to canaries and other cage birds The name is also given to the herb called stitchwort

Chicory Plant cultivated in Britain and other European countries It has a long fleshy root which, when dried, roasted and ground, is used to impart additional bitterness colour and body to coffee

Chicoutim1 Town of Quebec, Canada It stands on the Saguenav River, 227 m from Quebec There are timber mills and the neighbourhood is visited for fishing and hunting Pop 11,877

Chiffchaff (Phylloscopus collybita)
Small song bird allied to the
wood wren It is a common summer visitor
to England, especially in the SW of the
country Olive green in colour shading to
yellowish white on the under parts, it frequents
woods and the margin of pools and brooks
where it feeds on insects and larvae It derives
its name from its song, which is a repetition
of two notes

Chignecto Bay of Canada. An area of the Bay of Fundy, it runs between Nova Scotia and New Brunswick and forms Shepody Bay and Cumberland Basin It is 30 m. long and about 8 wide The piece of land uniting Nova Scotia and New Brunswick and separating two areas of the Atlantic is called the Isthmus of Chigneoto It is about 24 m across and along it a railway line (CNR) runs A proposal has been made to cut a canal across the Isthmus

Chigwell Village of Essex It stands on the edge of Epping Forest, with stations Chigwell and Chigwell Lane, on the LNE Rly The old King's Head Inn is mentioned as the Maypole in Dickens Barnaby Rudge Pop 2950

Chiewell School, founded in 1629, is now a public school It has modern buildings, playing fields and accommodation for 200 boys

Chilanga Since 1929 the capital of Northern Rhodesia It is a station on the railway line to Broken Hill

Chilblains An irritating inflammation most commonly occurring on the toes and fingers Feeble circulation, caused either directly by tight gloves and shoes, or indirectly by lack of exercise, low vitality, or some definite disease, is the cause

Trealment—Paint the chilblains with collo dion Paschil's paint, or an ointment consisting of chlorate of calcium 3 drachms pure vaseline 3 oz Lactate of calcium in the form of an ellxir may be taken three times daily in teaspoon doses Avoid alcohol and excess of salt in the diet. Low vitality can be treated by ultra violet rays

Child The age at which a boy or girl ceases to be a child varies in different countries In Great Britain the Children Act of 1908 fixed it at 14, although for some purposes 16 is the dividing line Since the early 19th century special laws

since the early 19th century special laws have been passed for the protection of children Their hours of labour have been limited by Factory Acts, while Education Acts have made it compulsory for them to attend school. Other laws have made cruelty to children an offence and a society for the prevention of cruelty to children has come into existence

The Children Act of 1908 increased the responsibilities of parents and guardians It established special courts to try cases where juvenile offenders are concerned and provided that those sent for punishment should be kept apart from criminals Children are not allowed to buy cigarettes, nor to enter public houses. A further measure for the protection of children was passed in 1939

be kept apart from criminals Children are not allowed to buy cigarettes, nor to enter public houses. A further measure for the protection of children was passed in 1932

It is possible, under a law passed in 1926, for a child to be legally adopted Before this a child could be adopted, but legally it was not the child of the adopter. The Home Office has a children's branch with inspectors to see that the laws about them are observed Allowances are given to payers of income tax in respect of children.

Especially in Britain and America much attention is given to studying problems connected with the welfare and education of children There is a Child Study Society at 90 Buckingham Palace Road, London, S W

Chile Republic of South America. It consists of a strip of land on the Pacific coast line some 2600 m long, but not more than 100 wide It stretches from Peru in the N to Tierra del Fuego, part of the republic, in the S The N is a tropical desert the central part fertile and productive, and the S barren and unfertile As the Andes run through the land much of it is mountainous Herein is Aconcague, the highest peak in S America The total area is 285,133 sq m Santiago is the capital Valparaiso, Concepcion and Antofagasta are other large towns Pop (1930) 4,287 445

The chief product is nitrate but copper and other minerals are mined Many of the in habitants are engaged in agricultural pursuits There are railways between the chief towns and a line crosses the Andes The monetary unit is the gold peso worth 6d There is a central bank created in 1925

After being for three centuries a Spanish possession, Chilo declared its independence in 1810 and obtained it in 1818 It is governed by a President elected for six years and a ministry who form the executive The legis lature consists of a senate of 45 members and a chamber of deputies of 192 both elected by all adults who can read and write The senators are elected in groups of five for eight years the deputies for four The Roman Catholic Church was disestablished in 1925

In 1929 the long dispute between Chile and Peru was settled This went back to the war between the two countries in 1879 83, at the end of which the Chileans, who were victorious, obtained from Peru the provinces of Tacna and Arica The arrangement was, that in ten years the people therein should decide their own fate but this was not done In 1929, after long negotiations, Tacna was given to Peru and Arica to Chile In June, 1932, there was serious trouble in Chile and a Communist

government was established. This only lasted purposes and the smoke was let out through a few days, but there were further risings. | hole in the roof. The grouping of chimneys

Chile Pine Evergreen coniferous tree native to mountainous regions in S Chile (araucaria imbricata)
Popularly child monkey puzzle, it vields directly the heart of the overlocking are not rected for durable timber, the oval cones are roasted for food It sometimes grows to a height of 150 ft It was introduced into Britain in 1796

Chilham Village of Kent It is 5 m from Canterbury and 65 from London, on the S Rly It has a fine old church and a castle built in Norman times Pop 1232 Chil1 Fruit pod of a S American herb the capsicum It is used to make red, or cavenne, pepper, chili vinegar, and chili paste

Chillingham Village of Northumber-land It stands on the Till, 4 m from Wooler Chillingham Castle, the seat of the Earl of Tankerville, was built in the 14th control but in the 14th control. in the 14th century, but in its present form dates from the 17th In the park a herd of wild cattle is still maintained, though the castle has been closed

Chillon Castle in Switzerland It stands on a little island at the E end of the Lake of Geneva and was once used as a prison by the Dukes of Savoy Here Francis de Bonivard was imprisoned Byron's poem,
The Prisoner of Chillon, has made the castle

known to millions

Chiltern Hills Range of hills in Oxfordshire and Buckinghamshire They extend in a NE direction for about 45 m touching Hertfordshire Wendover Hill and Ivinghoe Beacon, both just over 900 ft, are the highest points There is some lovely scenery in the district which includes Ashridge, Hampden, Chequers and other places of interest

Chiltern Hundreds Three hundreds in Buckinghamshire, Desborough, Burnham and Stoke They owe their importance to their connection with parliamentary procedure. In the olden days stewards of the Chiltern Hundreds were appointed to keep the district free from robbers A small salary was paid to them, but in course of time the office became a sinceure It is still retained, however, and a member of Parliament who wishes to resign does so by accepting the office of Steward of the Chiltern Hundreds Legally a member cannot resign his seat. II, however, he accepts a position of profit under the crown he vacates it

Chimaera Fish nearly related to the seas and off the Pacific coast of North America Remarkable for a skin often almost devoid of scales, it is usually about 4 ft in length, and is a great menace to the herring industry

Chimaera hybrid monster She resembles in the forepart a lion, in the middle a goat, and in the rear a dragon. She was killed by Bellerophon after devastating Caria and Lycia. The name is now most frequently used to denote a santastic idea, and in botany to denote graft-hybrids

Chimborazo Mountain of Ecuador, volcano it is in the W brunch of the Andes Range and is 20,498 ft. high

Chimney Pert of a building through which smoke is conveyed from a fireplace to the outside air Before the

hole in the roof. The grouping of chimneys into one mass of masonry began in the 15th century

The chimneypiece or framework around the fireplace is often highly decorative, in wood or marble Some Jacobean chimney-pleces are notable for their craftsmanship, and later the brothers Adam designed some very fine ones

The business of sweeping chimneys is carried on by persons trained to it At one time chimners were cleaned by small boys, called climbing boys, a practice made illegal in 1842

Chimpanzee Popular name of the Smaller of the two African anthropoid apes, which, more than any other animal, resembles man. Often attaining a height of 4½ ft, it dwells in forests, eating fruits and vegetables, and building large nests in the trees. Its superior intelligence over other animals has been proved by scientific experiments. In 1930 a black female chimanages, something of a parity was obtained panzee, something of a rarity, was obtained for the Zoological Gardens, London

China Republic of Asia, one of the largest countries in the world It covers 1,532,815 sq m, and is divided into 18 provinces In addition there are dependencies covering a further 2,381,140 sq m, making a total of 4,278,352 sq m These include Tibet, which is practically independent, and Mongolia, which is only a little less so The population is about 460,000,000, of whom at least 430.000.000 live in China proper This total 430,000,000 live in China proper This total includes 200,000 Japanese and 100,000 of other nations

China has three great rivers, along which China has three great rivers, along which her trade has flowed for many centuries. The Yang-tse-Klang is 3200 m long and divides the country into two parts. The Hoang ho, or Yellow River is to the N and the Si Klang to the S. The land is a vast plain, with great mountain masses. One separates China from Mongolia, another divides the hear of the Vang-tse-Klang from divides the basin of the Yang-tse-Kiang from that of the Hoang ho

The capital is Nanking Pekin, the old

Pekin, the old capital, now Peiping, is much larger, as are the great ports of Shanghai, Tientsin and Canton A number of ports are open by treaty to foreign trade, in these treaty ports Great Britain and other nations have concessions, or areas under their own rule, but since 1927 some of these have been returned to China, and proposals made for returning the others

China produces a vast quantity of rice and China produces a vast quantity of rice and other foodstuffs, chiefly for home consumption. The chief export is silk. The railways are unsatisfactory, but many good motor roads have been made. The customs duties are collected by an independent body, the Chinese Maritime Customs, under an Englishman. The currency is on a silver basis, the chief coins being the tacl and the dollar, the value of each of which varies as do the weights and of each of which varies, as do the weights and measures

A very old country, China has been ruled by emperors of many different dynastics The last of these, the Manchus, ceased to rule in 1902, since when China has been a republic For some years the government was conducted from Pekin, but in 1927 a group of nationalists from the south transferred the capital to Nanking and set up a new government, consisting of five councils, executive, legislative, judicial, examination and control Chiang Kai 12th century braziers were used for domestic Shek was chosen president in 1928

The northerners did not accept this new authority and the civil war, which had been going on for some vears, continued The government at Nanking gained some successes, but could not make its power effective in many of the provinces, in some of which there were strong communistic outbreaks, and in nearly all of which there was a certain amount of disorder Lin Shen became president in 1932 In the same year the north-eastern provinces (Manchuria) and Jehol proclaimed themselves an independent state (Manchukuo) under the protection of Japan In 1935 Japan's authority in No China was further strengthened, but 1936 showed signs of improvement in Sino Japanese relations

Meanwhile the Chinese government asked a revison of the treaties which gave foreigners a privileged position Several countries revised these treaties and Great Britain expressed a willingness to abandon her exceptional position as soon as law and order had been firmly estab lished Meanwhile, as evidence of good faith, Britain returned Wei hai wei to China Great damage was done by an earthquake in 1933

See MANCHURIA

China Clay Essential ingredient in the manufacture of china It was first sent to Europe from China in the 18th century by a French missionary It gives plasticity to the paste from which porce lain is made and is used also in the arts as a filler for paper and for dressing fabrics

The English pottery industry obtains the greater part of its supply from large deposits in Devonshire and Cornwall It is also found

in Saxony Its other name is kaolin

Chinaware Name originally applied to fine pottery produced in China, and later to any vitreous, translucent ware classed as porcelain. It excludes such fabrics as Wedgwood and all other stonewares

majolica, Delit and all other earthenwares
As invented in China it comprises a hard paste body of china stone and kaolin or china clay, besides china stone and maoim or china clay, besides china stone and lime glaze, both fired at one operation, breaking with a conchoidal fracture and unscratchable by steel It was reproduced at Meissen in 1713, and at Plymouth in 1768 Meissen methods were initiated. tated in Vienna in 1718, and Copenhagen in 1772

The best French and English chinaware is The best French and English chinaware is an artificial porcolain which is scratchable by steel It is made of a soft paste of frit and white clay, and is seen in the porcelain of Sèvres and St Cloud, as well as in the English china from Chelsea, Bow, Derby, and Wor cester Bone porcelain, which contains bone ash, was introduced by Spode in 1880, and all later English china is of this kind, Minton and Conseland below notable Copeland being notable

Chinchilla South American rodent. It is about 10 ins long and is found in the Alpine zones of the Andes from Peru to Chile It has large cars a lovely tail, and very soft grey fur, for which it is trapped

Chinese White Artist's pigment. It is propared by boil Ing metallic zine and condensing the oxidised vapour into powder It is excellent for water colour painting, but lacks toughness with olls It has better colour, finer texture and greater covering power than zine white, which is prepared from zine ore and coal

has a large reservoir here Pop (1931) 22,061. Chinklang Treaty port of China It where that river is joined by the Grand Canal Railways and good roads connect it with Shanghal, about 30 m away There were disturbances here in 1927, when damage was done to the British concession The Chinese Government paid compensation and the concession was handed back to China. Pop (1931) 199,778

Chinon Town and river port of France It is picturesquely situated on the Loire, 31 m from Tours Its castle, of which there are some remains, was a royal residence

Chioggia Island, city and scaport of and is connected with the mainland by a bridge, 100 ft long The chief industry is fishing In 1379 the Gencese Fleet was defeated here by the Venetters. here by the Venetians. Pop 38,100

Chios Island of Greece In the Aegean Minor, it is 32 m long and covers 320 sq m. The scenery is beautiful and the soil very

fertile, grapes, oranges and other truits growing in profusion. Pop 75,880 Chios, the capital, is on the E coast. It has a harbour, a cathedral and the ruins of a citeded Chies, closed to be the highest as citadel Chios claimed to be the birthplace of Homer Pop 22,000

Chipmunk Name given in America to the ground squirrels belonging to the genus tamas. The chipmunks possess internal cheek pouches, and the fur on their backs is marked by alternate light and dark bands

Chippendale Thomas English fur-cestershire man by birth, Chippendale set up for himself as a cabinetmaker about 1750 and soon made a high reputation He borrowed ideas from France, but gradually developed his own distinctive style, lightness and grace of line Later cabinetmakers have all produced chairs and cabinets modelled on those of Chippendale He died in Nov., 1779

Chippenham Borough and market town of Wiltshire It stands on the Avon 13 m. from Bath, on the G W Rly An agricultural centre it has GW Rly An agricultur cattle and cheese markets

GW Rly An agricultural centre it has cattle and cheese markets other industries are bacon curing and flour milling, and engineering Pop (1931) 8493

Chipping Campden Market town shire It is 9 m from Evesham and the station is Campden on the GW line, a mile away The church of S James is a beautiful perpendicular building with a fine town Pop 1700 dicular building with a fine tower Pop 1700

Chipping Norton Borough and Ortordshire It is 13 m from Banbury, on the GW Rly Pop (1031) 3 489

Chirk Village of Denbighshire It is 9 m from Wrexham, on the GW Rly

The little River Celriog and the Ellesmore Canal Phass by it. Near by are collisied and clate

pass by it. Near by are collicries and slate quarries Its castle the seat of Lord Howard de Walden, was long the home of the Myddelton family The first castle was built in the 11th century century the present one in the 14th and restored in the 17th century Pop 2576

covering power than zinc white, which is prepared from zinc ore and coal

Chingford Urban district of Essex, on the S Rly, and is a residential area Its from London. The Metropolitan Water Board

Chingford or Esping Forest, 10 m trom London The Metropolitan Water Board

Chingford or Essex, the common is large and beautiful adjoining is large and beautiful adjoi

the pioneer of daylight saving Willett, Beneath it are immense caves open to the public. Camden Place was the home of Napoleon III, who died there Pop (1931) 9876

Chiswick Urban district of Middlesex between Hammersmith and Brentford, 5 m. from London, on the S and District Rlys The chief church is S Nicholas, with an old tower and a grarevard in which Hogarth is burled, the chief theoryphere is the Mell with historic the chief thoroughlare is the Mall with historic associations Chiswick House, the property of associations the Duke of Devonshire, where both Fox and Canning died, was bought in 1929 by the district council and the grounds are now a public park Hogarth House is a museum It forms part of the urban district of Brentford and Chiswick See BRENTFORD

Chitral State on the Indian frontier. Winder British protection, in the Malakand agency, it covers 4500 sq m., and is ruled by the Mehtar Chitral is the capital In 1895 a small British garrison was attacked in a fort here Travelling by different routes, in a fort here two relieving forces set out, and on April 20, after a siege of nearly seven weeks, the garrison

was relieved hlorates Salts formed by the action of chloric acid upon bases, distinguished by their great solubility in water, and the evolution of oxygen when heated leaving a residue of a chloride Potassium chlorate is used in medicine as a refrigerant and stimulant in threat compaints. and stimulant in throat complaints, also in the manufacture of fireworks, matches and deton-ators. Sodium chlorate is used in the production of aniline black.

Chlorimetry Term used in chemistry for the process by which the available amount of chlorine is estimated in a bleaching agent such as chloride of lime By the volumetric method, a standard solution of thiosulphate of sodium is titrated with a known acid solution of bleaching powder and potassium iodide.

Chlorine Element having its atomic weight 35.5 and denoted by the symbol C1 It is a greenish-vellow heavy gas with an irritating suffocating odour It combines directly with most metals forming chlorides, and to its strong affinity with hydrogen is due its bleaching properties Chlorine is used as a disinfectant, and as a bleaching agent for cotton and linen

Chlorite Name given to a group of silicates of alumina and magnesia occurring as dark olive-green rock-forming minerals. The varieties of chlorite occur in granular masses, or as soft pliable scales in other minerals such as quartz Chlorite schist is so named from the plentiful occurrence of this mineral in the rock

Chloroform Heavy colourless liquid with an agreeable ethereal odour and sweet taste, also known as trichloromethane It is prepared by the action of bleaching powder upon alcohol or acctone, with subsequent purification of the crude product with sulphuric acid Chloroform is soluble in alcohol, ether and oils, and slightly so in water It is a solvent of most resins, many alkaloids, rubber, etc It is much used as an anaesthetic.

and yellow pigments and chemically is related to the colouring matter of the blood

Choate Man Born a American states-Jan 24, 1832, he was educated at Harvard and became a lawyer For more than 30 years he was engaged in important cases in the New York courts and in the Supreme Court at Washington A Republican in politics, he was ambassador to London, 1899-1905, and represented his country at the peace conference at The Hague in 1907 He died in New York, May 15, 1917, leaving a reputation for wit and oratory

hobham Village of Surrey. It is 5 m. Woking and is famous for its common and its ridges, a range of low hills about 4 m from the village, and the Gordon Memorial home for boys

Chocolate Preparation from the cacao bean and sugar It is used as a food, or, mixed with milk and water, as a drink First sold in London in 1657, its

high price confined its use to the rich

Chocolate for eating began to be made when the import duties on the cacao bean were reduced in 1853 In the 20th century it became enormously popular and firms at Bristol, York and Birmingham became very large concerns Chocolate is also imported from France and Switzerland.

hoir Body of singers in a cathedral or church. In the Church of England Roman Catholic churches the choir consists of men and boys, as in the monastic houses of the Middle Ages.

In Nonconformist churches the choirs are

composed of men and women

The word choir is also used for the part of the church in which the clergy and the choir

Choking Choking from swallowing of by vigorous thumping between the shoulder blades If this fails gag the mouth open with a piece of wood and pass the fingers down the

back of the throat to hook up the foreign body or to push it onward towards the stomach In the case of a child, hold it upside down and shake it if slapping on the back is not efficacious If a large or sharp object has been swallowed, give the patient bread and milk or

porridge, and summon a doctor

If hot liquids or stinging insects have been swallowed causing swelling in the throat, apply hot flannels to the front of the neck and take sips of cold water and of olive oil

Cholera Malignant infectious disease due to toxins formed intestinally by bacterial vibrios It is endemic throughout Asia and virulent epidemics develop from These are governed by time to time degree of atmospheric humidity, and often reach other countries through their ports Cholera is combated with increasing success by destroving the vibrio bacilli with permanganates and fortifying the blood, de-hydrated by the frequent evacuation of watery "rice-stools," with saline solutions Opium is Non-malignant European or unnecessary British summer cholera occurs as choleraic diarrhoea and infantile cholera

so in water It is a solvent of most resins, many alkaloids, rubber, etc. It is much used as an anaesthetic.

Chopin Fréderic François Polish compass an anaesthetic.

Chopin Fréderic François Polish composer and pianist. He was born near Warsaw, Feb 22, 1810, and first appeared in public at the age of nine. In 1831 he settled at Paris, where he knew most of the literary obtained absolutely pure. It contains green

one of the many lovers of George Sand, the coat with a ruff round the nock ar novelist. As a pianist, in which branch of his black or white, blue or red in colour art Liszt alone approached him, he was among the first to use the thumb freely on black As a composer for his instrument he was unique, employing largely dance forms and rhythm, particularly the mazurka He died in Paris Oct 14, 1849

Chord Simultaneous occurrence of a num-divide groups into consonant and dissonant groups A common chord is the combination of any sound with its third and perfect fifth

Mnthematically a chord is the shortest distance between the front and rear edges of a plane It is the straight line joining the extremities of an arc hence in aeronautics, it is the line traced from the leading edge

to the trailing edge of a wing

Chorea Nervous disease usually occurring before puberty, oftener with girls than boys It may arise in essociation with hereditary predisposition, fright, ill usage, malnutrition or educational strain. It is believed to be a cerebral or brain form of rheumatism The symptoms may develop insidiously They take the form of convulsive muscular movements in face or limbs, which may be local or general It is also called S Vitus' dance

Chorley Borough and market town of Lancashire It is 9 m. from Preston on the LMS Rly The little River Chor passes through it and there is a canal Astley Hall an Elizabethan house, is now public property The principal industries are cotton weaving, calico printing and the making of machinery Near is Duxbury Hall, the old seat of the Standish family Pop (1931) 30,795

Chorley Wood Urban district of Hertfordshire It is 20 m from London on the Metropolitan Rly It is beautifully situated amid the Chiltern Hills, and has a fine common Pop (1931) 3296

Chorus Originally in Greek drama an enclosed space for dancing Later the persons singing the praises of Dionysus were styled the chorus The introduction of a separate actor performing dialogue with the chorus led in time to definite tragedy and comedy with consequent subordination of the chorus In Elizabethan drama the person styled chorus recited prologue and epilogue and explained the play

Musically a chorus is (a) a composition sung by a number of people either in parts or unison, (b) a collection of persons employed to sing choruses, (c) the refrain of a song in which the community may join

Chosen Name given by the Japanese to

Chosen Korea, (qv)

Chouans Name given in 1792 95 to the royalists of Brittany Mainly peasants, who maintained a revolt against the first French Republic until they were crushed by La Hoche in 1795, they are described by Balzac in his novel Les Chouans

Chough Bird of the crow family It has red legs and glossy black plumage and is found in many parts of the Old World The Cornish chough with its red beak, is now rare in England, but still lives in the mountainous areas of Europe and N Africa A smaller variety is the Alpine chough

coat with a ruff round the neck and may be

Chrism Sacred cointment used for the rites of baptism, confirmation and ordination, the consecration and blessing of churches altars, chalices and baptismal water In the Roman Catholic Church it comprises olive oil and balm, in the Eastern Church wine and spices are added

Christ Name meaning "the anointed" given to Jesus because He was the anointed, the expected one sent by God to save the people The Hebrew equivalent is Messiah. See JESUS CHRIST

Christadelphians Name meaning brotherhood of Christ and applied to a religious community Founded in 1848 by John Thomas, who, after studying medicine in London, went to Brook lyn He gained many adherents in America and England and the sect spread to several English speaking countries

hristchurch Borough of Hampshire At the junction of the Avon and the Stour, it is 104 m from London, on the S Rly It is famous for its church, which has been restored It was once the church of the priory Pop (1931) 9183

Christ Church City of New Zealand South Island, 8 m. from its port, Port Lyttelton, it is the capital of the Canterbury district, and a centre for the wool, mutton and other produce of the region around. The city was produce of the region around The conduced in 1850 Pop (1931) 127,300

Christ Church College of Oxtora Church Cardinal's by Cardinal Wolsey and called Cardinal's College, but in 1546 refounded by Henry VIII The finest buildings are the hall and the quadrangle on S Aldato's The cathedral church serves as the college chapel The dean of the college is also dean of the cathedral The Fellows are called students and the college

Christian Name of ton kings of Den mark Christian II (1481 1559) was King of Sweden, Norway and Denmark, but his people revolted and he was an exile in the Netherlands and then a prisoner until his death on the island of Alsen Christian IV (1577 1648), who was King of Denmark and Sylvania (1577 1648), who was King of Denmark and Sylvania (1578 1648).

prisoner until his death on the island of Alson Christian IV (1577 1648), who was King of Denmark and Norway, founded Christiania and took part in the Thirty Years' War Christian IX, a son of the Duke of Schleswig Holstein, was born, April 8, 1818, and chosen King of Denmark in 1852, the Royal House being then in danger of extinction He succeeded to the throne in 1863 and reigned until his death Jan 29, 1904 Schleswig Holstein was taken from Denmark at the beginning of his reign Christian was the father of Queen Alexandra His other children were Frederick VIII who succeeded him, George, who became King of Greece, Dagmar, were Frederick VIII who succeeded him; George, who became King of Greece, Dagmar, who married the Tsar Alexander III and another daughter who married the Duke of Cumberland

Christian & King of Denmark Born Sept 26, 1870 the eldest son of Frederick VIII, he became king May 12, 1912 In 1898 he married a princess of Mecklenburg and they have two sons

Chow Chow Domestic dog A native Christian Danish prince A son of the time very popular in England It has a heavy be was born, Jan. 22 1831, and became a A son of the

soldier In 1866, Schleswig-Holstein was seized by Prussia and he settled in England seized by Prussia and he settled in England and married Helena, a daughter of Queen Victoria Known as Prince and Princess Christian, they lived in England until their death The prince died, Oct. 28, 1917 and his widow, Jan. 9, 1923 Their elder son, Prince Christian Victor, died on active service in 6.4 fries Oct. 29, 1900

Prince Christian Victor, died on active service in S. Africa, Oct. 29, 1900 Christiania (qv), capital of Norway Christianity Universal religion, originating in the life and teachings of Jesus of Nazareth. He was a stilled accordance by the service by the ser village carpenter, brought up in an atmosphere of Jewish ethical monotheism, and was crucified as a political malefactor The Galilean disciples became the apostles of a movement

disciples became the apostics of a movement which a philosophical Gentile convert, Paul of Tarsus, interpreted to the Greco-Roman world, emphasising its universality and the central mystery of the Resurrection

The story of Jesus and the apostolic age enshrined in the New Testament, with the Hebrew Old Testament, formed the potent scriptures of the new religion, which became excepted under the series fethers with formal associated under the early fathers with formal creeds and sacraments The foundation of the empire at Constantinople by Constantine in the 4th century coincided with the beginning of State recognition, which was followed by the division of the Western from the Eastern Churches and the medieval struggle for supre macy between Church and State In the 16th century the growing demands for intellectual freedom introduced the Protestant Refor subsequently marked by diverse mation, communions.

Something like a third of the inhabitants of the world own a nominal adherence to Christianity Its largest branch, the Roman Catholic Church, numbers about 331,500,000 the Greek, or Eastern Church, 144,000,000, and the various Protestant communions 207,000,000

Christian Science The religion, or interpretation of the Christian religion, discovered and founded by Mary Baker Eddy in 1866 Christian scientists regard it as the restoration and divinely promised fulfilment of the religion taught and practised by Christ Jesus It is de fined by Mrs Eddy as "the law of God, the law

fined by Mrs Eddy as the law of Good, the law of good, interpreting and demonstrating the divine Principle and rule of universal harmony" (Rudimental Divine Science, p 1)

One of the leading points of Christian Science is that God is the Life, Mind and Soul of Man, yet that man, as the reflection of God, possesses perfect identity and individuality Christian perfect identity and individuality Christian science defines man as the image, likeness or reflection of God Acknowledging God as the origin of all that really is, Christian Science does not find an origin for aught else, but consistently denies that anything which is not of God can have an origin or real existence

The prevention and cure of disease is within the mission of Christian Science for the same reason that it was within the mission of original Christianity Christian and scientific treatment of disease depends on the distinction between absolute or real being and the human or mortal concept of man. Freedom from disease follows the absolute knowing of the truth concerning

God and man

The original, standard, and only textbook on Christian Science Mind-healing is Science and Health, with Key to the Scriptures, by Mary Baker Eddy, first published in 1875

Christmas Annual festival celebrating the birth of Jesus Christ It has been kept throughout Christendom on Dec. 25, since about the year 400 Dec 25, or Christmas Day and also the day following Christmas Day and also the day lonowing called Boxing Day, are bank holidays, Christmas Day is also a quarter day in England and Ireland Christmas is traditionally a time for feasting, giving presents, and general goodwill The puritans in the 17th century objected to the keeping of Christmas, but this objection has now disappeared, although in Scotland it is observed far less than in England, the holiday taking place at the New Year instead There are special postal arrangements for Christmas Day in England and Wales

Christmas Name of two islands One the Indian Ocean, about 190 m from Java It was annexed by Britain in 1888, and is governed as part of the Straits Settlements It is about 12 m long and covers 62 sq m It has rich deposits of phosphates

The other, also a British possession, is a large atoll in the Pacific Ocean. It was discovered by James Cook in 1777 and annexed by Britain in 1888 Over 100 m in circumference, it contains vast quantities of coconuts It became part of the Gilbert and Ellice Islands Colony in 1919 Colony in 1919

Christmas Rose (helleborus niger) Hardy perennial of the order ranuculaceae It blooms out of doors in mid-winter, has handsome foliage and white blossoms about 2 ins in diameter Varieties of hellcborus orientalis, known as Lenten roses, bloom later and have flowers of white, crimson and shades of rose colour

Christopher Saint and martyr H. According to one legend he was sentenced to death by a Roman official but the arrows, when aimed at him rebounded and wounded the Roman The saint thereupon allowed himself to be beheaded so that his blood might heal his persecutor

Christopher is the patron saint of ferrymen and travellers. The Roman Catholic Church keeps 5 Christopher's day on July 25

Christ's Hospital English public originally one of three royal hospitals founded in London in 1553 by Edward VI and was devoted to orphans, for 400 of whom it provided a home and education. The popular name of Bluecoat School is derived from the dress, which for boys is a blue gown knee breeches and yellow stockings
For long the school, at which Lamb and

Coleridge were pupils, was in Newgate St., London In 1778 the girls were removed to Hertford, but the boys remained in London until 1902 They then went to new buildings at West Horsham, with accommodation for 800 boys

Chromatic Musical scale comprising a succession of notes outside the diatonic scale It is usually written with sharps ascending and flats descending, but more correctly only with accidentals involving no change of key

Chromite Black or brownish-black mineral. It is composed of the chromates of iron, alumina and magnesia, and used as the chief ore of the metal chromium. It is associated with serventine rock in which it occurs in large masses, or as concretions and veins In New Caledonia, from the decomposed serpentine, the chromite is washed out to form a black sand on the seashore. Southern Rhodesia is one of the chief sources of the supply of chromite

Chromium Metallic element whose atomic weight is 52 1 and symbol Cr It is a hard steel-grey metal, very infusible, non-magnetic and very resistant to corrosion by ordinary atmospheric agents Chromium readily alloys with other metals and its addition to steel gives great hardness, toughness and resistance to corrosion hence its use in stainless steel Electroplating with chromium has many advantages over nickel plating Many of the chromium compounds are of great economic importance

Chromosphere Rose-coloured gas eous envelope outside the photosphere or incandescent surface of the sun. It is itself enveloped by the silvery aureole called the corona. Owing to the intense glare of the photosphere its enveloping layers are imperceptible to the naked eye except during total eclipses, but are observable spectroscopically at all times. The chromo sphere, a gaseous cloak at least 5000 m. thick, with irregular prominences, contains more than 25 metallic and non metallic elements, notably helium, hydrogen and calcium

Chronicles Books of Two books of the Old Testament. Originally one, they formed with Egra-Nehemiah a con one, they formed with Extra-Neuman a continuous history, emanating from a post-exilic compiler in the 3rd century, B C They review all Old Testament history from Adam to the Cyrus decree terminating the Jewish captivity in 538 B C Condensing into tribal and priestly genealogies the period preceding Saul's death, they treat sacerdotally the histories of David, Solomon and the Judean kings and recapitu late, sometimes textually, the books of Samuel and the Kines.

Chronograph Instrument which retime One type is the stop watch used in timing races In this a button is pressed at the start and again at the finish to ascertain the dura tion of the race

Chronology Time scale or system of reckoning time in the mess. The calendar is a prominent example
The basic principle is the observation of recurring natural phenomena Different systems exist in the various sciences Astronomers use a clock which records light years, based upon the velocity of light In history an inch on a 12 in scale may be taken to represent 1000 years, while in archeology the same measure ment may indicate the passing of 25,000 years In history a list of dates is a chronology Our knowledge of ancient chronology owes much

Chronometer Timekeeping instru for ascertaining longitude The first satis factory chronometer was invented by John Harrison between 1729 and 1760 The modern chronometer is like a large watch poised to remain horizontal in spite of the ship's move ments, and is capable of remarkably accurate time keeping in all ordinary variations of temperature. Admiralty chronometers are periodically tested at Greenwich Observatory, where Harrison's chronometer may be seen

to the work of the younger Scaliger

mass of matter which contains the eggs of the insect and increases in size, becoming furry in appearance, and is finally transformed into a caterpillar which, in turn becomes either a moth or a butterfly

Chrysanthemum of the natural order composites A hardy plant with both perennial and annual species it came to Europe from China Early flowering ohrvsanthemums bloom from July to October, late kinds in the open in September and October and indoor varieties in November and December

Annual chrysanthemums with light feathery foliage and flowers of white, yellow, orange, etc, with coloured markings, can be easily grown from seeds planted outdoors in April

or May where they are to bloom.

Chrysolite Name given to the yellow or the mineral olivine This is a silicate of mag nessa and iron, and is found in tabular crystals. or occasionally in rounded masses in igneous rocks Chrysolite is imported for jewellery from the East.

hrysostom John Christian saint and preacher He was saint born at Antioch, the son of a Roman soldier, and, by the influence of his mother, became a Christian He lived as a hermit, but in 386, being then about 30, he was ordained. In 398 he was made archbishop, or patriarch, of Constantinople, when his eloquence won for him the name of Chrysostom, or golden mouthed His attacks on wickedness in high places led to his banishment in 403 He was soon recalled, but was again in disgrace when he died, Sept. 14, 407 He wrote the prayer in the Anglican Prayer Book said just before the end of both morning and evening prayer

Chub Fish of the same genus as roach and dace Common in England and

other European countries, it often attains a length of 2 ft. and a weight of from 5 to 7 lbs It is readily caught with a fly, but having little flavour and many bones is not popular for eating

Chubb Charles English locksmith About 1800 he set up in business in Winchester moved to Portsmouth, and then windester move to be said to make safes, for which both he and his brother Jeremiah, took out many patents. With his sons he founded the firm of Chubb & Sons, large works were opened in Wolverhampton and in 1882 the firm became a limited company

When Charles Chubb died in 1845 his son, John (1816 72), succeeded as its head and then came George Hayter Chubb A leading Wesleyan he was made a knight in 1885, a baronet in 1900, and a baron, as Lord Hayter in 1927

Church Urban district of Lancashire.
It is just outside Accrington, on the LMS Rly, and is served by a canal There are chemical works and coal mines Pop (1731) 6185

Richard William divine Born at Lisbon, April Church divino 15, 1815, he was in 1871 appointed Dean of S Paul's, and, declining the archishopric of Canterbury, remained in London until his death at Dover, Dec 9, 1890 A strong high churchman and a fine preacher Church is also known as a writer of unusual charm. He wrote for The Guardian, and was the author of Bacon Chrysalis Common name for the pupa and Spenser in the "English Men of Letters" or larval deposit of lepi-beries His Life of S Anselm is a classic, and doptera (butterflies and moths) It is a small he also wrote a history of the Oxford Movement. and Spenser in the "English Men of Letters" beries His Life of S Anselm is a classic, and

Church Word used by Children and for the building in which they meet In its widest sense the Church is made up of all who accept the authority and teaching of the New Testa-A few Nonconformist bodies do not use the word, probably owing to its sacerdotal associations, eg, the Society of Friends and the Plymouth Brethren

THE CHURCH AS A CAREER The Church For many years the number of needs men men offcring themselves as candidates for holv orders has been steadily declining. For those who feel that their vocation hes in the Ministry,

the call of the Church is an urgent one

Women are not permitted to enter the ministry of the Church of England or the Established Church of Scotland They may become ministers of the Free Churches They may also become Deaconesses of the Church of England

The Church of England The training for the ministry usually takes the form of three years at ministry usually aleas the form of three years at a university and a period of one and a half to two years at a Theological College Alternatively the candidate may proceed direct to a non-graduate i heological College for a post-matriculation three years' course The fees of a Theological College yeary from £100 to £140 for the college year Candidates for holy orders will find many funds from which they orders will find many funds from which they

can gain help towards their training
The rank and file of the clergy receive
stipends of anything from £200 to £400 per
annum, which will increase with preferment
Information and advice may also be sought

from the Central Advisory Council of Training for the Ministry, The Church Assembly, 8 Dean's Yard Westminster, London, SW 1

The Free Churches There is a wide field of labour to be found in the service of the Free Churches—the Baptist Church, the Congregational Church, the various branches of the Methodist Church, and the Presbyterian Church of England.

Most of these have their own theological colleges which require a good standard of education for admission. The Church of education for admission Scotland prefers that training should be carried out in one of the Scottish Colleges Information may be sought from the National Council of the Evangelical Free Churches, Memorial Hall, London, EC 4

The Catholic Church An aspirant to the priesthood will naturally seek the counsel of his spiritual adviser, who will, in turn, bring the aspirant to the notice of the Bishop of the Discover in which he motice of the Bishop of the Diocese in which he resides, or, alternatively, to the Superior of the Religious Order towards which he feels particularly called. He will be submitted to various tests as to fitness spiritual first of all, mental, and then phy-

Chosen candidates are sent for training usually to a diocesan seminary, or (occasionally) to a Catholic University abroad Two years are sient in philosophical studies before theological course begins

Secular priests, while they do not take the vow of poverty taken by members of the Religious Orders, are many of them more or less bound to observe it Priests in charge of purishes depend for their support upon the freewill offerings of their parishioners, assistant I riests as a rule, live in the same house with the

Word used by Christians for a parish He must be willing to work wherever body of believers and for the his ecclesiastical superior may send him.

Religious and philan-Church Army LITUI CII ATINY thropic organisation. It was founded in 1882 by the Rev Wilson Carlile to spread the teaching of the Church of England among the outcasts of Westminster The officers and sisters are paid small salaries The institution's activities now include the establishment and conduct of employment bureaux, emigration schemes and the distribution of food and clothing The headquarters are at 55 Bryanston St., London, W 1

Churches of Christ Christian denomina-Christian tion In the British Isles it has 186 churches and 16,000 members, also 19,000 scholars in Sunday Schools The headquarters are in Manchester and it exists in Australia and other parts of the British Empire

Churchill Seaport of Canada, on the W mouth of the River Churchill It is a rly terminus, and the Canadan Government has built a harbour for the export of grain, with elevators and other accessories The port was first open for trade in 1931 It occupies the site of Fort Churchill built as a trading station by the Hudson Bay Co

Churchill Lord Randolph English politician Born Feb 13, 1849, Randolph Henry Spencer Churchill was a son of the 7th Duke of Mariborough From Eton he went to Merton College, Oxford, and in 1874 was elected Conservative MP for Woodstock In the Commons he was a leading figure in the Fourth Party and a caustic and ready speaker. Outside, his aggressive style of oratory made him a popular idol. In some ways his views were more democratic than those of his leaders In 1885 he took office as Secretary for India, and in 1886 became Chancellor of the Ex-

and in 1886 became Chancehor of the Exchequer In less than a year, however, he resigned. He died Jan. 24, 1895
Churchill married an American lady, Miss Jerome, who, as Lady Randolph Churchill and then Miss Cornwallis-West, was a prominent figure in society They had two sons, Winston, who wrote his father's Lufe, and John.

Churchill Winston. American novelist. Born in St. Louis, Nov 10, 1871, he was trained for the navy and given work on The Army and Navy Journal Having edited The Cosmopolitan Magazine, he made a name in 1899 with a novel, Richard Carrel, which was followed by The Crisis, 1901; The Crossing, 1903, Conston, 1906, The Inside of the Cup, and The Dwelling Place of Light

Churchill Winston Leonard Spencer English politician Born Nov 30, 1874, elder son of Lord Randolph Churchill he went to Harrow and Sandhurst and entered the army in 1895 In the same year he went as a war correspondent to Cuba and saw active service on the Indian frontier and in the Sudan. He was in S Africa (1899-1900) as correspondent for The Morning Post

Having left the army, Churchill entered Parliament in 1900 as Unionist M P for Oldham. He changed his party sooner than accept tariff reform, and in 1906 was returned as a Liberal for N W Manchester He entered the ministry as Under Secretary for the Colonies parish priest and are provided with their board end lodging

A priest must work for some years as assistant before being appointed to the sole charge of a

Great War broke out By this time, having been deteated in Manchester in 1908, he was M P for Dundee In 1915 he left the Admiralty and went to command a battallon in France, but in 1917 he returned to politics as Minister of Munitions, in 1919 he became Secretary for War, and in 1921 Secretary for the Colonies He left office with Lloyd George in 1922 and was out of Parliament until 1924, when he returned to the Unionist Party, and was elected MP for Epping From 1924 to 1929 he was Chancellor of the Exchequer In 1930 Churchill, as his views on India differed from those of the other Unionist leaders, took up an independent position in Parliament Churchill's abilities include the gift of writing

vivid and interesting prose, seen in The River War, 1899, and The Lafe of Lord Randolph Churchill, 1906 but perhaps most of all in the four volumes of The World Crisis, 1923 28, his account of the events of the Great War and the peace A one volume edition was published in 1931 In 1930 he issued My Early Life, and in 1933 appeared the first volume of Marl borough His Life and Times

Churching of Women Rite of the Church It takes the form of a thanksgiving by women after childbirth, as set forth in the Prayer Book of the Church of England In the Roman Catholic Church and the Greek Orthodox Church the service is also observed. Orthodox Church the service is also observed

Church Lads' Brigade Organis a tion for the training of boys, associated with the Church of England There are about 1300 companies and 60,000 members The head quarters are Aldwych House, Catherine St, London, W C 2

Church Rate Rate levied in former the Church of England. It was voted by the parish meeting and became compulsory the 19th century, as Noncomformity grew stronger, objections were raised to it, and in 1868 it was abolished

Church Stretton Market town and pleasure resort of Shropshire It is 163 m from London and 13 m from Shrewsbury, and is beautifully situated on the slopes of Longwind Bart 1876 on the slopes of Longmynd Pop 1670

Pickle or relish introduced Chutney It is prepared from sweet fruits, such as mangoes and raisins, to which certain acidulous flavours from lemons and sour herbs, hot seasoning, poppers and spices are added

Chuvash One of the Russian union of 1925, it covers about 7200 sq m and lies about 500 m.E of Moscow Cheboksara is the capital Pop 900 000

Cibber Colley English actor and author Born in London, Nov 6, 1671, the son of a sculptor he became an actor and a popular dramatist, although his plays were adaptations rather than original pieces One was Love's Last Shift and another The Molière s Tarluffe Non Juror, based on Mollère a Tarluffe Cibber was Poet Laureate from 1730 until his death, Dec 11, 1757 He left an Autobiography Pope derided him in the Dunctad

Cicada Large winged insect. It is found in greatest numbers in the tropics and noted for its long life, one American species is said to live for 17 years. It is also famous for the loud shrill call of the males manufacturing town with rly and canal

Cicatrix Latin word meaning "a scar' the mark or scar left by a wound or sore In botany the scar left on a tree or plant by the fall of a leaf is called a cicatrix

icely Perennial umbelliferous plant sweet cicely is a native of Britain, growing to a height of 2 or 3 ft in mountain pastures, and sometimes used as a pot herb. The stem bears large thrice pinnate leaves and white flowers distanced in January which the stem bears large thrice pinnate leaves and white flowers. clustered in downy umbels. The whole plant is characterised by its sweet aromatic flavour

Cicero Marcus Tullius Roma statesman and writer Roman orator, Born at Arpinum, Jan 3 106 B C, he studied cratory in Greece and in 77 entered public life in Rome For some years he made a high reputation in the law courts In 63 he was one of the con suls and during his term of office crushed the conspiracy of Catiline In 58 he was banished on the ground that he had executed the con spirators without a trial He went to Tus culum, but in 16 months was recalled

During the civil war Cicero decided to support Pomper, but after the battle of Pharsalus he abandoned politics After Cæsar's murder in 44, Cicero denounced Antony and was proscribed He refused to leave the country, and Antony had him killed on Dec 7, 43

Cicero left a mass of writings and founded the process of the which has been used by all

the prose style which has been used by all great writers of the West for 2000 years

Cid Campeador Spanish hero Rus near Burgos, was historically a valiant Cas-tilian warrior when Christian and Moor were struggling for the mastery in Spain His names, Arabic and Spaulsh, mean "lord con queror" He fought for Christian and Moor indifferently, captured Velencia and there reigned until his death in 1099 Spanish poetry is filled with romances about his exploits

Cider Fermented juice of apples After fermentation in open casks it is filtered and freed from impurities Cider may contain from 4 to 7 per cent of alcohol and a varying percentage of sugar Special apples are cultivated for cider making classified as sweet, bittersweet and sour, and these are blended according to requirements

In England cider is made in Deven, Somerset

and Herefordshire, and in Kent It is also made in Normandy and Brittany Cider cannot be

sold without a licence

imabue Giovanni Italian artist He 1240 and died in 1302 Founder of the Floren tine school his pictures express a sense of life, and his desire for the natural and beautiful gave a decided impulse to his pupils, among whom was the celebrated Giotto

Pleasure resort of France ımıez stands on a hill behind Nice. and has the remains of an amphitheatre and an old monastery

an old monastery

Cinchona Genus of rubiaceous over medicinal qualities of the bark. The red cinchona bark contains quinine and other valuable alkaloids. The name comes from the contains of the Countess Chinchon, the wife of a Viceroy of Peru in the 17th century, who was cured of a fever by the use of the bark

communications The city is laid out with with regard to acting for the cinema Romantic wide, straight streets crossing each other at stories of fabulous salaries and meteoric rises right angles, with many sky-scrapers. The to fame are heard on every hand, and young right angles, with many sky-scrapers The business quarter of the city lies on the low ground near the river, the residential quarters are on the adjacent hills Bridges connect it with the control of th with towns on the Kentucky side of the Ohio Pop (1930) 451,160

Cincinnatus Roman hero In 460 B C. turned to his farm when his period of office was over In 458, when Rome was invaded, he was called from the plough to become dictator He defeated the enemy and returned once more to his farm. In 439, at the age of 80, he was again made dictator, but he died in the same year

Cinematography the art of photographing a moving object and projecting upon a screen a series of pictures in rapid sequence, giving an appearance of movement of the object. The effect is due to persistence of vision. Much experimental work in cinematography was carried out in the later part of the 19th century, culminating in the researches of Edison, who, in 1889, demonstrated the working of his kinetoscope, which had been made possible by the use of a newly introduced photographic film

From this instrument, which was more of the nature of a peepshow, gradually evolved the modern cinematographic apparatus with its special camera and projector, and the power to produce the pictures upon a large screen The ordinary motion picture has been supplemented by colour photographs, and in 1928 the use of photo-electric apparatus made possible the reproduction of sound in the talking film, an innovation which is revolu-tionising the cinema industry

A method of taking moving pictures in relief was discovered in 1933, though owing to technical difficulties it was not immediately

practicable

The widespread use of motion pictures has brought about special technique in production with an environment quite different from that of the theatre Apart from its use for recreation, the film has an important educational and

scientific value

The preparation of cinema films is now one of the world's great industries, it probably ranks fourth among British trades. The world's centre for film making is Hollywood, a suburb of Los Angeles in California, in England the chief centre is at Eistree and Borcham Wood,

but there are also large studios at Shepherd's Bush, Ealing and elsewhere

The opening of cinema houses in Great
Britain on Sunday has caused much contro-Some local authorities, the London Versy County Council, for example, permitted them to open, but others did not. When they were open the proceeds were given to charity In 1930 a judicial decision at Brighton laid it down that Sunday opening was illegal because admission fees were charged. An act of parliament, therefore, legalised Sunday opening for a year where it existed, and a new measure was introduced in 1932 This, too, allowed Sunday opening in the 96 areas where it existed. In other areas the local authorities can apply to Parliament for permission to open At the same time it was suggested that part

of the money received should go to the main-tenance of a National Film Institute THE CINEMA AS A CAREER What is true of the stage is more emphatically the case

people are too prone to believe that that way greatness lies. The aspirants are consequently far more numerous than prospective or even possible vacancies. The strictest inquiry should be made before any contract or binding agreement is entered into

Cineraria Flowering plant. Varieties of vated, S cineraria in the garden and S cruentus in the greenhouse The latter has tall (the stellate varieties) and dwarf forms.

Cinna Lucius Cornelius Roman states-Elected consul in 87 BC at the time when Sulla and Marius were disturbing the city with their strile, he endeavoured to get Marius recalled, but was deprived of his consulship by the senate and forced to leave Rome Afterwards, with the aid of Marius, he got together a large army, marched upon Rome, captured the city and massacred Sulla's friends He was slain by his own soldiers

Cinnabar Sulphide of mercury (HgS)
Found sometimes finely crystallised, with adamantine lustre, but oftener massive with dull lustre, it is the main source of quicksliver It is mined at Almaden in Spain, and also in Italy, Hungary, California, Mexico, China and Peru

Cinnamon Inner bark of an evergreen tree It is used as a spice in cooking and, medicinally, in treating colds. The best cinnamon grows in Ceylon, where the bark is thin and smooth and of a light yellowishbrown colour

Word meaning five leaves, Cinquefoil Word meaning five leaves, applied to a perennial herb of the Rosaceae order Clover is a familiar example. In architecture and heraldry an ornamental design is based on its leaf

Cinque Ports Group of scaports on the coast of Kent and Sussex, originally Dover, Sandwich, Hastings, Romney and Hythe Later Winchelsea and Rye were added Deal, Ramsgate, Faversham, Folkestone, Margate and Tenterden were Folkestone, Margate and Tenterden were associated with them They were given certain privileges retained until 1835, in return for supplying the king with ships in time of war There is still a warden of the Cinque Ports at Walmer Castle, Deal In May, 1931, the courts of brotherhood and guestling met at Romney

Cintra Town of Portugal It is 15 m from Lisbon and is picturesquely situated on a rock The palace dates from the 14th and 15th centuries The convent is cut in the rock and the cells are lined with cork Near is Monserrate, long the residence of Sir Frederick Cook Pop 6000

Cipher Symbol O, nought or zero The word has been applied to all forms of secret writing, also known as cryptography Cipher writing was in use among the Romans Caesar's system, the simplest and commonest form, consisted merely of writing for each letter the letter which came three places after it in the alphabet, thus D for A

Other systems include the writing of words backwards, the use of key words, and arbitrary symbols Of the latter, Bright's Characterie (1588) was the first example, and modern shorthand systems are the latest development

In Greek mythology an enchantress \_irce and the daughter of Helios. She

Circle Plane figure whose circumference is everywhere at a constant dis tance from its fixed central point, or the peripheral line of such a figure. The constant distance is the radius, aline drawn from the circumference through the centre to the opposite point is the diameter. The linear re lation of circumference to diameter is denoted by the symbol  $\pi$ , this is a ratio represented in practice by 3 1416, approximately 3. The area of a circle equals the diameter squared multiplied by 0 7854

C1rcuit Division of the country for legal purposes It comes from the Latin circum around, and fre to go, and originated with the journeys of the judges round the country To day England and Wales, outside the London area, are divided into eight circuits Midland, Midland, western, Oxford, South Eastern, Northern, North Eastern, North Wales and Chester, and South Wales in each are circuit or assize towns in which a judge of the high court sits twice or thrice a year to hear cases of importance, both civil and criminal Scotland is portance, both civil and criminal Scotland is divided into two circuits and the Irish Free State into eight

Circuit in electricity, a term applied to electric current. Its strength of flow is governed by Ohm's law, which states that the current is directly proportional to the electromotive force in the circuit and inversely proportional to the

resistance of the circuit

Circular Note Cheque, drawn in foreign currency, which may be obtained from a banker in exchange for an equivalent sum in English money Circular notes are used by travellers when abroad, being handed with an explanatory letter from the banker to the banker's foreign They agent who supplies the cash required are issued by banks and tourist agencies

Circumcision Religious rite The word comes from the Latin and means to cut round It is performed on boys, usually in infancy, the foreskin being out It is practised by the Jews Mohammedans and certain savage people, as an aid to health and cleanliness and may have originated as a purification rite. It may require to be per formed as a surgical operation if the foreskin is too tight or long

The Feast of the Circumcision is kept on Jan 1, because Jesus Christ was circumcised

on the eighth day after birth

Circus Roman place of amusement, circular in shape and at first used for charlot races famous Circus Maximus at Rome, which was nearly 2000 ft. long There are remains of the

Circus Maxentius on the Applan Way
In the 18th century, in England, its chief
attractions were feats of horsemanship, but
gradually acrobats were introduced, and the gradually acrobate were introduced, and the clown became indispensable of such circuses. Astley's, which later became Sanger's, Hengler's and Barnum's were notable Some, such as Astley's, were held in a fixed place, others travelled about the country.

A notable circus is that arranged by Capt. Bertram Mills every year at Olympia, London.

Cirencester Market town and urban district of Gloucester-

transformed the companions of Odysseus into shire, 21 m from Cheltenham, on the GW swine when they were shipwrecked on her Rly, and the Thames and Severn canal island, but Odysseus, rendered immune by the root moly, drank her potion unharmed

A Roman town, it was named Corinium, and root moly, drank her potion unharmed

Corollo Plane figure whose circumference of the corollogical states and breather and become might tural trade and brewing and bacon curing industries It is also a hunting centre Near is Circneester Park, covering about 3000 acres, the seat of Earl Bathurst, the Royal Agricultural College and Redcomb College, a public school Pop (1931), 7200

Replacement of tissue cells Cirrhosis cirrnosis by fibrous tissue typically seen in the case of the liver There it leads to chronic inflammation and enlargement followed by hardening of the organ The most common cause is the abuse of alcoholic liquors Jaundice gradually sets in, in severe cases, fatal checked in its early stages by suitable treatment and abstinence from alcohol, arrest of the disease may be effected

Cissbury Andlent British camp It is 60 acres on a hill 600 ft high About 50 pits have been unearthed, dug by flint miners in the neolithic age and about 40 ft deep Horn picks and flint implements have been found

C1st Prehistoric coffin formed of four or more unhewn slabs with one or more capstones Originating in the neolithic age, when it was placed at the bottom of a pit, or on the level covered by a tumulus, it developed into the dolmen the rock-cut hamber and, under Egyptian influence, the sarcophagus

Cistercian Monastic order of the Roman Catholic Church Founded at Citeaux in France in 1098 by some Benedictines who were dissatisfied with the laxity that had crept into their order, they adopted the rule and dress of S Benedict. The order was suppressed in the 18th century, but re vived in the 19th The habit is white with a black cowl and hood

The Cistercians were very strong in England fore the Dissolution They were noted especially as sheep farmers and architects. In their northern houses, especially in Yorkshire, they kept large flocks of sheep. The abbeys The abbeys

they kept large flocks of sheep The abbeys which they bullt are unsurpassed for beauty anywhere, as the rulns at Fountains, Melrose, Furness and Tintern prove

Citric Acid Constituent of many fruit juices (C<sub>2</sub>H<sub>3</sub>O<sub>7</sub>) It occurs in currants, gooseberries, raspberries, and especially lomons, 20 gallons of lemon juice should yield 10 lb of citric acid crystals. These are readily soluble in water, with an acroscable sour taste, and are used in preparing agrecable, sour taste, and are used in preparing effervescent draughts, also in the form of lime juice and as an antidote for scurvy

Fruit of the citron tree, citrus medica The smooth stemmed Citron medica tree, with oval leathery leaves, is cultivated in the Mediterranean basin, the West Indies It may grow to a height of and elsewhere 15 ft., and yields a large fruit without boss, whose thick, fragrant rind is esteemed for candying The lemon is probably a sub species

Citrus Genus of aromatic, evergreen trees and shrubs of the rue order. There are about 30 species, all of Asiatic origin, and include the orange, lemon, citron lime limetta shaddock, pumelo and cumquat. Important areas in California and S Africa are devoted to citrus culture

Name given to a municipality of a certain type It comes from the

287

Latin civilas, and meant at first a community of citizens In France and England the custom of chizons in France and English the custom grew up of calling places cities which had a bishop, and this use persists, with exceptions, to day Most cities are the seats of bishops, but a certain number, eg, Leeds and Notting ham, which have been made cities by the king, are not in the United States and Canada a place automatically becomes a city when it reaches a certain population

The word City is also used for the original London which has its own corporation and police force Its livery companies are the city companies. The older part of Paris is the cite. The word is also used in France for a suburb

Ciudad Rodrigo City of Spain. It Salamanca Pop 8,400 Standing near the frontier of Portugal it was strongly fortified in the 18th century The French captured it in 1810 and its recapture by the British and Portuguese in 1812 was one of Wellington's outstanding successes

Civet Fatty musky substance from the posterior glands of a genus of carnivorous mammals called civet cats (viverra) Employed in aromatic pastilles and Oriental incenses, its use in European perfumery tends to decline The cat from which it chiefly comes is the African species, which is about 2 ft. long The other five species are Asiatic All have slenderer bodies, longer tails, shorter legs and sharper muzzles than the true cats.

Civil Engineer Term used in contra-military engineer, the nature of the work being concerned with all branches of civil construc-tion. This includes the designing and building of bridges, tunnels, dams and reservoirs and foundations, the construction of roads, docks, harbours and canals, also the problems of irrigation and reclamation of land

Civil engineering is taught at most of the universities and colleges, and some give degrees in the subject. The directing body of the profession is the Institution of Civil Engineers at Great George St , London, S W 1.

Civilisation Term designating a stage of human society At first serving to distinguish generally the higher states from those of savagery and barbarism, the intensive study of human origins introduced new lines of demarcation The starting point of civilisation is nowadays usually associated with one or other primary invention, such as writing, metallurgy, pottery or the domestica-tion of animals and plants But prehistoric periods are recognised as having had their social stages also, and one may therefore speak of stone age, bronze age or early iron age civilisa-tion. The form of culture associated with a nation is called its civilisation

Civil Law Term applied in most countries to that branch of law which governs the relations of the citizens one to another It is thus distinguished from the canon law, which deals with ecclesiastical matters, the criminal law, and specialised branches such as commercial and international law. The phrase originated in Roman times. The phrase originated in Roman times

Civil List Name given to the annual and other members of the royal family. It is settled at the beginning of each reign George V and his Open royal a civil list of George V.

Princess Mary £6000 The Duke of Connaught receives £25,000 a year The death of King George V (Jany 20, 1936) and the accession of King Edward VIII necessitate a new civil list

In 1931 King George surrendered £50,000 a year as his contribution to national economy, and other members of the royal family made proportional sacrifices

Civil list pensions are pensions granted to persons distinguished in science, art and literature, or their dependents in needy circumstances A sum of £1200 is given each year

Civil Service Service given by those employed by the state to carry on its work other than members of the army, navy and air force Each civilised country has its civil service, and the conditions

country has its civil service, and the conditions of entry, pay, etc., vary considerably In Great Britain the civil service numbers something like 300,000 men and women including those employed in the post office THE CIVIL SERVICE AS A CAREER Those who secure posts in the departments of state have a position for life, good hours, good holidays, and according to their service and ability, good pay, but it should be remembered that entry is not easy and that a high standard of work is required. of work is required.

The Civil Service offers many fine opportuni-tles to both men and women, whether in the Post Office, the Ministry of Labour, the Ministry of Health, the Board of Education, or the Home Office Positions in one of these departments are to be had in every town throughout the country as well as in London

The Colonial and Indian Civil Service and the Consular and Diplomatic Services remain closed to women in this country

The normal method of entry to the civil

service is by open competitive examinations held under the direction of the Civil Service Commissioners Definite age limits are set according to the department.

Full particulars of these examinations, in-cluding the subjects and ago limits prescribed for the several classes of appointment, can be obtained on application by letter addressed to the Secretary, Civil Service Commission Burlington Gardens, London, W 1

Civil War Any war between parties in the same country. The Romans had their civil wars, as later had France and other countries that arcse out of the empire. In England the Barons' War and the Wers of the Roses were siril as the Roses were siril as the Second wars of the Roses were siril as th the empire In England the Barons' War and the Wars of the Roses were civil wars, but the term Civil War, or Great Civil War, is usually reserved for the struggle between Charles I and the Parliamentarians that began in 1642 and lasted until 1649 The greatest of all civil wars was that between North and South in the United States, called the American Civil the United States, called the American Civil War, it lasted from 1861 to 1865

Clachan Gaelic plural word meaning clach It was applied to a small village or cluster of houses, and still survives as part of the name of certain villages in Ireland and Scotland An example is Clachandysart.

Clackmannan County of Scotland The smallest in the country, it lies between the Firth of Forth and Perthshire, and covers only 55 sq m Its chief rivers are the Doyon and the Black Devon, and V and his Queen received a civil list of £470,000 is the county town other places are Dollar, a year, the Duke of York £25,000, the Duke of Gloucester and Prince George £10,000 each, and 31,947.

a Cistercian abbey, which flourished until the French Revolution

Clairvoyance all forms of super natural perception of events, other than tele pathy, where the knowledge is acquired from another mind The term is used particularly in another mind the perfect of the control of the c connection with spiritualism to indicate the supernormal acquisition of knowledge con cerning persons on another plane of existence, usually through a clairvoyant, or medium

Clam Bivalvo molluso, the shell of which closes like a vice They are found in the Atlantic Ocean off both the American and European shores The clam is used for food, especially in the United States, also as a

balt for fishing

beit for fishing
Clan Social group recognising a common Social group recognising a common ancestry It was most developed in Sociand, where, for centuries, especially in the north, the country was divided among the various clans, Campbells, Macgregors, Gordons and others Each was ruled by a chief who had the power of life and death over the clansmen, who usually served him with remarkable loyalty The land was held by him as being the common property of the clans.

loyalty The land was held by him as being the common property of the clan.

The feuds between the clans were a feature of Scottish IIa. The clan spirit was much in evidence during the Jacobite risings of 1715 and 1745, but after that it decayed rapidly, one reason being that in 1748 the chieftains were deprived of their powers. Each clan had its tartan and badge, which are worn coremonically to day. About 60 clone retain their About 60 clans retain their ity. The clan system also preously to day historic continuity vailed in Ireland and other parts of the world

Clan-na-Gael Irish secret society It delphia in 1881 by Fenians who wished to make Ireland independent activity it died away The term means "clan of the Gaels"

Clanricarde Earl of Irish title long borne by the family of de Burgh, or Burke, and now by the Marquess of Sligo In 1543 Ulick de Burgh, a great land owner in Connaught, was made Earl of Clan ricarde Two succeeding earls were made marquesses, but in both cases the newer title died out and the older one passed to another

branch of the family

branch of the family
John, the 14th carl (1802 74), was a Conservative politician and ambassador in S
Petersburg He married a daughter of George
Canning and was made a marquess in 1826
His son, Hubert George de Burgh, the 2nd
marquess (1832 1916), was known for his re
sistance to the policy of land purchase He
died April 12, 1916, leaving his great wealth
to his nephew, Viscount Lascelles, later Earl
of Harewood His marquessate lapsed, but the
cardom passed to the Marquess of Sligo earldom passed to the Marquess of Sligo

Clapham Southern suburb of London in the borough of Wandsworth, on the Southern and tube railways The common is a large open space The district is famous as the home of the Clapham sect, a group of rich and

Clacton Urban district and watering London, on the L N E Rly, and can be reached by a frequent service of steamers and motor coaches Pop (1931) 15,851

Clairvaux Village of France It stands on the Aubo, 35 m from Troyes, and the word means clear valley (claris vallus) In 1115 S Bernard founded here a Clisterian abbey, which flourished until the for its uninhabited, but is valuable for its mindsolited, but is valuable for its more Clisterian abbey, which flourished until the

for its guano Claimed by France, the United States and Mexico, its ownership was submitted to arbitration In 1930 the arbitrator, the King of Italy, decided in favour of France

Clapton District of London To the che borough of Hackney on the L N E Rly Here is a track for greyhound racing Clapton Orient is a popular Association football club

Claque Organised body of professional applauders in the French theatre, hired to receive a play with approbation. The name is derived from the French claquer, to clap the hands Members of the claque could be bird not only to clap but all the lived not only the lived not only to clap but all the lived not only th be hired, not only to clap, but also to laugh or cry, as the occasion demanded

Clare Italian saint She was born at Assisi, July 16, 1194, and was soon influenced by the preaching of S Francis In 1212 she took the vows of poverty, chastity and obedience and became the first woman member of the Franciscan order Her life was passed as the head of a house for nuns opened near Assisi, its members being called after her, the Poor Clares She died Aug 11, 1253, and was canonised in 1255

Clare County of the Irish Free State In the province of Munster, it covers 1330 sq m, and has a long coast line on the Atlantic Off the coast are the Aran and other islands The chief river is the Fergus, and there are several ranges of hills. Sheep and cattle are reared, and there are some fisheries Ennis is the county town. Pop (1926) 95,064

the county town. Pop (1926) 95,064

Clare Town of Suffolk It stands on the Stour, 25 m from Bury 8 Edmunds, and 62 from London, on the L NE Rly A castle, of which some ruins remain, was built here in Norman times and was the seat of the powerful earls of Clare The town has an agricultural trade Pop 1940

Clare Earl of English title The last peer at Bannockburn in 1314 In 1564 John Holles was made Earl of Clare and his descendants held the title until 1711 From 1711 to 1708 it was held by Thomas Pelham, Duke of New castle, the Prime Minister who was related to the Holles family

In 1795 John Fitzglbbon was made Earl of Clare He was a barrister and a member of the Irlsh Parliament Having been Attornoy.

Parliament Having been Attorney. General, he was made Lord Chancellor of Ireland in 1789, and helped to bring about the union of the British and Irish Parliaments in 1800 He died Jan 28, 1802, and his title became extinct in 1804

The Earls of Clare are perpetuated in several ways. Clare College, Cambridge, owes its name to Elizabeth, a sister of Gilbert, Earl of Clare, who gave money to it in the 14th century Clare Market in the Strand London, which existed until almost the end of the 19th century, was founded about 1657 by John Holles, Earl of Clare

Clare
John English poet. A labourer's son, he was born July 13, 1793, at helpstone, near Peterborough He carned a precarious living in several ways and soon

began to write poems By good fortune one of them was noticed, with the result that his volume, Poems Descriptive of Rural Life and Scenery, was published in 1820 Other volumes, The Shephord's Calendar and The Poems Viscolines, The Shepherd's Calendar and The Rural Muse, followed, but their success was not great. The poet's mind gave way, and in 1837 he was put into the asylum at Northampton, where he dled, May 20, 1864

Claremont Estate near Esher in Surrey Sir John Vanbrugh built the house, which was bought for the Princess Charlotte and later became the home of Louis Philippe, who died The Duke and Duchess of Albany made it their home on their marriage and the widowed Duchess lived here until her death in 1922

Clarence Duke of English title Taken from Clare in Suffolk and first given to Lionel, a son of Edward III, who married the heiress of Clare, the title several times became extinct. The last Duke was Albert Victor, elder son of Edward VII He was born Jan 8, 1864, created a duke in 1890, and died Jan. 14 1892

Clarence House is the London residence of the Duke of Connaught. It was built in 1825 for William IV, then Duke of Clarence, and adjoins St. James's Palace

Clarendon Village of Wiltshire It is carly English kings had a palace here, and here the Constitutions of Clarendon were issued in the 12th century Pop 300

Clarendon Constitutions of Laws issued by Henry II in 1164, when he was living at Clarendon. They were 16 in number and were intended to curb the exceptional privileges of the clergy They never came into force, but were important because they led to a renewal of the quarrel between the king and Thomas Becket. Henry withdrew them after the archbishop's murder

Clarendon Earl of English title borne family of Villers In 1661 it was given to Edward Hvde, the Lord Chancellor and historian, and it remained In his family until the 4th earl died in 1753. The heiress of the family married the ambassador, Thomas Villiers (1709 86), and in 1776 he was made Earl of Clarendon George, the 4th earl (1800-70), was Lord Lieutenant of Ireland, 1847-52, and Foreign Minister in 1853-55, during the Crimean War in 1865-66, and under Gladstone in 1868-69. He died Ian. 27, 1879. Gladstone in 1868 69 He died Jan. 27, 1870 George, the 7th earl, was chairman of the British Broadcasting Co until appointed Governor-General of S Africa in 1930 The British Broadcasting Co until appointed Governor-General of S Africa in 1930 The Earl's eldest son is called Lord Hyde

Clarendon Earl of English statesman and writer Edward Hyde was born Feb 18, 1608, at Dinton, near Salisbury the son of a landowner there He went to Oxford and became a barrister, and in 1640 entered Parliament Though he observed the content of the land of th jected to the unconstitutional acts of Charles I, he remained loyal to the King In 1643 he was made Chancellor of the Exchequer

After the death of Charles, Hyde went abroad and was then closely associated with the royal family In 1658 Charles II made him his Lord Chancellor, and from the Restoration in 1660 to 1667 he was the Kings chief adviser made many enemies, and in 1667 was compelled to resign To escape impeachment he went abroad and remained in France until his death at Rouen, Dec 9, 1674 He is buried in West-minster Abbey

In his exile Clarendon wrote his History of the Great Rebellion Although strongly partisan, this is an invaluable guide to the history of the times, while many of its passages are among the noblest examples of English prose

Clarendon Code Four laws passed 1665, so-called because the Earl of Clarendon was then the chief adviser of Charles II
Intended to strengthen the position of the
Church of England, the laws were as follows:
(1) The Corporation Act of 1661, by which every member of a municipal corporation must take the sacrament according to the rites of the Church of England at least once a year (2) The Act of Uniformity of 1662, which made it necessary for all clergymen to be ordained by a bishop and to use the Prayer Book. (3) The Conventicle Act of 1664, which made all religious services, except those of the Church of England, illegal (4) The Five Mile Act, which forbade all expelled clergymen to live within 5 miles of a corporate town, unless they had taken an oath to be loyal to the established order

Claret English name for the red wines about 60 vineyards in the Medoc district of

the Gironde

Clarinet Single-reed wind instrument. The six finger holes in its cylindrical tube, which is bell-shaped at the bottom, give its fundamental scale

Extra holes controlled by keys emit other

sounds

The clarinet acts like a stopped organ pipe and gives only the odd upper partials of the harmonic series This involves such complexity of fingering that clarinets are made pitched in convenient kevs

Trumpet with a high-pitched note Eence the popular use larion noteof the word for a clear loud call

Another clarion is an organ reed stop

Clark Francis Edward. American divine Born in Quebeo, Sept 12, 1851, he founded the World's Christian Endeavour Union He died May 25, 1927

Clarke Sir Edward George English 15, 1841, the son of a jeweller, he was largely self-educated In 1880 he was elected Conservative MP for Southwark, and was later returned for Plymouth, a seat he held until 1900 From 1886, when he was knighted, until 1802 he was Solicitor-General Clarke was M.P for the City of London in 1906, resigning because of his free trade views He published his Autobiography in 1918, and died April 26, 1931

Clarkson Thomas English anti-slavery he became interested in the slavery question while at Cambridge henceforward devoting his life to secure abolition. It was Clarkson who influenced Wilberforce (q v ), whose advocacy of abolition in parliament was supported by Pitt, Burke and Fox Clarkson travelled Pitt, Burke and Fox Clarkson travelled extensively, both to gather evidence, and to enlist the sympathy of foreign statesmen His health gave way in 1794, but he continued to write for the cause, seeing slavery legally abolished by parliament in 1807. He became vice-president of the Anti-Slavery Society, which was formed in 1823 He died, Sept 26, 1846

Classics Writing of the first rank, pre-eminently in ancient Greece

and Rome The great Greek classics include the writings of Homer, Thucydides and the great dramatists Acschylus, Euripides, Sopho cles and Aristophanes, as well as Aristotle and Plato Latin classical writers include Livy, Tacitus, Virgil, Sencca, Cicero and others Supreme works of any age are also known as

Claudius Name of two Roman emperors. Claudius I was born at Lingdonum (Lyons) in 10 B c After the at Lugdunum (Lyons) in 10 BC Alter the murder of Caligula, he was proclaimed emperor by the practorian guards He was governed by his favourites, and his infamous wife, Messalina, whom at length he put to death He then wedded his niece, Agrippina, who, to ensure the throne to her son Nero, poisoned

him in 54 B C

Claudius II succeeded Gallienus as emperor in 268 and died in 270 He was called Gothicus, and his reign was chiefly marked by his victories over the Goths and other barbarians

Claud Lorrain French landscape painter, was born at chamagne, in Lorraine He lived in Freiburg and Rome, and returned to France, but settled in Rome in 1627, where he worked under the protection of Pope Urban VIII, and quickly became famous His landscapes are in the Italian classical tradition, and have beautiful light and cloud effects, although the figure drawing is poor His "Fête Villageoise," and Un Port de mer au Soleif Couchaut," are now in the Louvre, and his book of sketches

of his pictures, and his book of sketches of his pictures, Libra di Verita now belong to the Duke of Devonshire He died Nov 21,

1682

Clausewitz Karl von German soldier Born June 1, 1780, he entered the Prussian army In 1812 he entered the Russian service Again in Prussia he served in the Waterloo campaign, and in 1818 was appointed head of the military academy He died at Breslau, Nov 18, 1831

The teaching of Clausevitz was that war

must be conducted with all the skill and ruth lessness possible, and must aim at the total destruction of the enemy His ideas are set out in his famous Yom Kriege (on War), which has been translated into English and other

languages

Claustrophobia Medical term for anxiety neurosis It is characterised by a morbid fear of being in a confined space Treatment is by psycho analysis

Clavichord Keyboard stringed instrument It made music by the contact of tangents of brass with metal strings These tangents also mark off the ribrating lengths of strings from the belly bridge

Clavicle One of the important bones of the vertebrate skeleton. In man the clavicle, or collar bone, is curved and extends from the breastbone to the top of the shoulder blade

Clay Earthy substance comprising essentially silica, 463 pc, alumina, 398 pc, and chemically combined water, 139 pc It is tenacious, plastic when wet, and when heated to 300°C. loses its plasticity irrecoverably Sometimes formed of weathered volcanic rock in place, it has mostly been deposited as mud derived from disintegrated granites. Clays provide fireclays, pipe clays, pottery clays and clays for brick making

Clay Cross Urban district and market town of Derbyshire It is 5 m from Chesterfield on the LMS Rly Coal mining is the staple industry Pop (1931) 9843

Claymore Name applied to the double edged broadsword formerly used by the Highlanders of Scotland It possessed a cross hilt of which the guards were turned down

Clayton-le-Moors
It is 6 m from Blackburn Its industries are concerned with the cotton trade Acuring ton, on the LMS, is the railway station Pop (1931) 7910
Clayton, with a station (Clayton Bridge), on the LMS Rly, is a northern suburb of Manchester Another Clayton, on the LMS Rly, is near Bradford, Yorkshire

Clear Island and cape in the County of Cork, Irish Free State About 4 m from the mainland it has an area of roughly 1500 acros, and a pop of 505 Cape Clear is the most southernly point of Ireland

Clearing House Institution for the purpose of settling accounts between its members by the pay ment of balances only The London clearing house settles all differences between the house settles all differences between the banks arising out of cheque and other trans actions. The total amounts owing to and from are set off one against another, and the account is settled by a transfer of the difference. The office is in Post Office Court, Lombard St., London, E C

Cleat Wedge-shaped piece of wood used to prevent a rope slipping, or to act as a step, c.g., when fastened to a ship's mast The name is also applied to a wooden or metal implement for belaying ropes, and to the wedges on a ship's side which catch the shores of a dry dock

Cleator Moor Market town and berland It stands on the Eden, 4 m from Whitehaven, on the LMS Rly It is a mining centre and has blast furnaces for the iron ore found on the moorland near Pop (1931) 6582

Cleavage In geology a term used to denote the tendency of cer tain rocks to split into plates or slabs along planes independent of the planes of bedding. In mineralogy, cleavage is applied to the tendency of mineral crystals to split along definite planes bearing some constant relation to the faces of the crystal

Cleckheaton Market town of York Shire (W.R.) On the LM 9 Rly, it is 8 m from Bradford The chief industries are the manufacture of woollens and coal mining Pop 12,500

Clee Range of hills in Shropshire They are near Ludlow and extend for bout 10 m Brown Clee (1790 ft.) is the about 10 m highest point.

Cleethorpes Wrban district and colnshire It stands on the Humber estuary, about 3 m from Grimsby, with which it is connected by tramways. It is 138 m from London on the L N E Rij Pop (1931) 28,624 Nearby is the village of Cice, whose beautiful did church bear Seven fewer and a Normal ful old church has a Saxon tower and a Norman

as follows



GorTreble C (Alto) C (Tenor) For Bass Clef Clef. Clef

Cleft Palate Imperient development of the roof of the mouth, development present at birth It results from failure of the process forming the nose to unite with the two sides of the upper jaw, as it normally does before birth If the gap extends forward it produces hare lip The malformation can usually be remedied by an operation in early life

Cleisthenes Athenian statesman He was the author of the law called ostracism, which enabled the public assembly to decree by a secret ballot the banishment of any citizen who appeared dangerous to the state He lived about 510 B c

Clematis Genus of hardy and halfhardy plants of climbing
habit of the natural order ranunculaccae
The wild clematis of the hedgerows is familiar
as travellers' joy or old man's beard Many
hybrid varieties are in cultivation, mostly
derived from C vulcella, a native of S Europe
and parts of Asia, and C langunosa, a large
flowered lilac-coloured species of Chinese
origin The popular C jackmani with deep
velvety purple blooms is derived from these two

lemenceau Georges. French states-man. Georges Engène Clemenceau man. Georges Engène Benjamin Clemenceau was born Sept. 28, 1841 In 1871 he was a member of the National Assembly. Between 1871 and 1876 he was engaged in municipal work in Pans, ending as President of the Municipal Council From 1876 to 1893 he was a member of the Chamber of Deputies He opposed Boulanger and supported Dreyfus, the vehemence of his activities winning for him the name of "the tiger" and involving him in several duels In 1830 he founded La Justice, the first of his several journals the others were Le Bloc, L'Aurore and L'Homme Libre several fournals the others were Le Bloc, L'Aurore and L'Homme Libre Early in 1906, having been a senator since

1902. Clemenceau became minister of the interior Later, in 1905, he was made premier, a post he held until 1909. His term of office was notable for the establishment of the Entente Cordiale, following the trouble with Germany in 1908, and the separation of church and state He was active in opposition for nine years until, in 1917, he was called upon to save his country He saw the war brought to a successful conclusion and presided over the peace conference at Versailles. He re-signed in Jan. 1920, and lived in retirement until his death, Nov. 24, 1929. Clemenceau wrote a novel which appeared in England as The Strongest. His two books. Jealing with the greats of 1911-29 expressed.

dealing with the events of 1914-20 appeared just before his death

Clemens Samuel Langhorna. See MARK

Clement Name of fourteen popes Clement of Clement of Rome, was the fourth Bishop of Rome Clement II was pope in 1047 Clement III was pope from 1187 to 1121 Clement IV.,

Clef Term used in music The clefs, which are placed at the beginning of a staff, determine the absolute pitch of certain notes, and therefore, together with the position on the staff, of all the notes They are marked was pope 1342 to 1352 Clement VII. was a

at Avignon Clement VI., another Frenchman, was pope 1342 to 1352 Clement VII. was a Medici, he reigned from 1523 to 1534 Clement VIII. was pope from 1592 to 1605, and Clement VIII. was pope from 1592 to 1605, and Clement IX from 1667 to 1669. Clement X was pope from 1670 to 1676, and Clement XI from 1706 to 1721 Clement XII was pope 1730 to 1740 Clement XIII, pope from 1758 to 1769, was followed by Clement XIV., pope from 1769 to 1774 This pope in 1773 suppressed the Leguits pressed the Jesuits

lement's Inn Formerly one of the inns It existed in the 15th century and was attached to the Inner Temple until its abolition about 1800 Its name comes from the Church of S Clement Danes and the name is still used for a block of buildings near that church in the Strand The Inn is the Shepherd's Inn of Thackeray's Pendenns

Cleon Athenian demagogue. He gained great influence over the people and was appointed commander of the army cained a victory over the Lacedaemonians in Sphacteria, but afterwards he was defeated by Brasidas and slain Cleon is bitterly attacked by Aristophanes in the Knights and other plays, and his name has become proverbial for a demagogue He lived about 400 B c

Cleopatra Queen of Egypt. A etes, she was born in 69 B.c and became, in 51 B.c., joint ruler of Egypt. In 48 B.c. she was driven out, but Caesar, having become her lover, restored her After his death she her lover, restored her Alver his death she became the mistress of Mark Antony, which led to war between Antony and Octavian, afterwards the Emperor Augustus Antony was defeated, and after his death Cleopatra killed herself

CLEOPATRA'S NEEDLES are two great obelists built at Heliopolis about 1500 B.C. one of these was brought to London and erected on the Victoria Embankment. It is 681 ft high. The other, a little higher and much heavier, was erected in Central Park, New York, in 1879.

Upper storey of a build-Clerestory Clerestory ing which is pierced with windows for admitting light uninterrupted by adjoining roofs. It is chiefly used in the naves choirs and transepts of Gothic cathedrals and large churches

Clerkenwell District of London. It the city and part of the borough of Finsbury The most interesting building is the gatehouse of the priory of S John of Jerusalem, a religious house that stood here in the middle ages. It is now the chancery of the modern Order of S John of Jerusalem Clerkenwell is known as a centre of the jewellery and watchmaking trades making trades

making trades

Clerk-Maxwell James Scottish
Scientist. Born in
Edinburgh, June 13, 1831, he went to Trinity
College, Cambridge, where he was second
wrangler He was in succession professor at
Aberdeen, at King's College, London and at
Cambridge, where he died Nov 5, 1879
Mathematical physics was his main study His
ideas on the connection between light, heat,
magnetism and electricity, carried forward
by others, have led to remarkable results

His great work is A Treatise on Electricity and Magnetism, 1873

Clermont-Ferrand City of France It stands near the Allier River, 112 m from Lyons, and is the capital of the department of Puy de Dome The buildings in Clermont include the become stale and threadbare with use the Allier River, 112 m from Lyons, and is the capital of the department of Puy de Dome The buildings in Clermont include the beautiful Gothic cathedral Ferrand is a busy manufacturing centre Clermont is a market for the produce of Auverne The two towns are connected by a long avenue bordered with trees In 1195 at the Council of Clermont, Pope Urban II proclaimed the first crusade Pop (1931) 103,143

Clevedon watering place of Somerset. It is on the Bristol Channel, 15 m from Bristol, on the GW Rly Clevedon Court was the home of Tennyson's friend, Arthur Hallam, and his family have associations with the Pop (1931) 7033 village and church

Cleveland Hilly district of Yorkshire In the north of the county, it extends from the Tees almost to Whitby The highest point is nearly 1500 ft. It is famous for its iron ore, the working of which has made Middlesbrough a great industrial town The district gives its name to a breed of horses and to a hunt.

Cleveland City and port of Ohio, United States It stands on the south side of Lake Erie at the mouth of the River Cuyahoga, 375 m from Chicago The industries include iron and steel works, oil refineries, motor car works and clothing factories. Cleveland has many parks and open spaces. Pop (1930) 900,429

Spaces. Pop (1930) 900,429

Cleveland Duke of English title Its first holder was Bar bara Villiers, mistress of Charles II, created duchess in 1670 The daughter of Viscount Grandison and wife of the Earl of Castlemaine, she bore the king three sons who became dukes of Cleveland, Grafton and Northumberland, and died at Chiswick, Oct 9, 1709 The Cleveland title became extinct in 1774 In 1833 it was given to William Henry Vane, descended from a daughter of the first duke, but it again became extinct when the 4th duke died in 1891 The duke's seat was Raby Castle, Durham, now the seat of Lord Barnard.

Cleveland Stephen Grover American president Born in New Jersey, March 18, 1847, be became a notable reformer, and in 1884, and again in 1892, he ver American Born in New was elected to the presidency as a Democrat. During his second term of office the trouble with Great Britain about the boundary of Vene Retiring in 1897 he died at zuela occurred.

zuela occurred. Retiring in 1897 he died at Princeton, June 24, 1908

Cleves District of Germany, round the town of Cleves, which is near the frontier of the Netherlands, 45 m from Düsseldorf It covers about 850 sq m The town is a pleasure resort. Pop 180,000

Clew Bay Opening of the Atlantic Ocean In Co Mayo, Irish Free State, it pierces the land for about It m There are many small islands in the property of the company of the bay and Clare (q v ), a larger one, at its entrance

Clewer District of Berkshire Clewer Within is part of the borough of Windsor Here are the headquarters of the Clewer Sisterhood. Founded in 1849 as the community of S John the Baptist, it conducts schools, hospitals and homes for fallen women. Clewer Without is outside the borough.

Clifden Market town and seaport of Co Galway, Irish Free Stato It stands on Ardbear Bay, 50 m from Galway, on the Gt S Rlys Its trade is chiefly in Pop 800

The Irish title of Viscount Clifden was given in 1781 to James Agar, a landowner of Kilkenny In 1899 it was inherited by Thomas C Agar Robartes, 2nd Baron Robartes, whose estates are chiefly in Cornwall

Cliff-Dwelling Habitations of primitern Colorado, Arizona, Utah and New Mexico They were constructed of lime and stone, in the hollow surface of a cliff, accessible only by ladden or popes from below surface. ladder or ropes from below, and invisible from above They were built by people of Pueblo origin. The most famous are in the Mesa Verde Canyons, and the Cliff Palace has 150 rooms, and 23 ceremonial chambers.

lifford Name of a great English Taking its name from Clifford in Herefordshire, it is now represented by Lord Clifford of Chudleigh the holder of a title deting from 1672 The first lord, Thomas Clifford (1630-73), was one of the chief advisers of Charles II, being a member of the cabal and lord treasurer The family seat is Ugbrooke Park, Devonshire The barony of de Clifford, which dates from 1299, is now held by the Russell family

Clifford John. English divine Born at Sawley, Derbyshire, Oct. 16, 836 In 1858 he became minister of a Baptist chapel in Praed Street, removing in 1877 to Westbourne Park Clifford was one of the leading Nonconformists of his time, a fervent

leading Nonconformists of his time, a fervent politician and the leader of the passive resis tance to the education measure passed in 1902 He died Nov 20, 1923

Clifford's Inn Former London Chan cery Inn Attached to the Inner Temple, it became a centre for lawyers in 1344 and remained so until dis solved in 1902 The hall built in 1767 still stands The inn was behind S Dunstan's Church in Fleet Street, and the buildings on its site are still called Clifford's Inn.

Clifton Suburb of Bristol To the west of the city, it stands on the Avon and has a noted suspension bridge, l in 1864 Formerly a popular pleasure it is now a residential district opened in 1864

At Clifton is Clifton College, a public school for boys, founded in 1862 It has accommodation for about 800 boys, and ranks as

one of the great public schools

Another Clifton is a village near Nottingham It stands on the Trent and is famous for Clifton Grove, a beautiful avenue of trees overlooking the river Clifton Hall has been for centuries the seat of the Clifton family The barony of Clifton, dating from 1608 is held by Elizabeth A. M. Bligh The eldest son of the Earl of Darnley is called Lord Clifton

Climate Average succession of atmost pheric conditions which re garded individually, constitute weather These conditions embrace variations of tempera-ture, moisture and pressure The sun's

ecliptic path conveniently delineates five conveniently delineates have the torpics, 231° N to 231° S, the arctic, north of the circle, 661° S, and the intermediate north and south temperate zones

Clinic Institution at which people attend First founded in London in 1696 for illness for the provision of medicines for the poor, clinics have greatly increased in number, particularly in the USA, and their activities now include preventive as well as curative functions The London School of Clinical Medicine is at the Dreadnought Hospital,

Greenwich Clinical medicine deals with the treatment

of patients at the bedside

Clinometer Instrument used in calcutant, and even invisible objects, and in setting Other forms gun sights to the correct angle

are used by airmen and surveyors

Name of a famous English family In 1299 John de Clinton One of his descend-Clinton became a baron ants was made Earl of Lincoln in 1572 This title became merged in that of Duke of New-This castle, whose family name is Pelham Clinton In 1692 the barony of Clinton fell into abeyance, but in 1721 it was revived and later came to the family of Hepburn-Stuart-Forbes Trefusis The family estates are in Devon

SIR HENRY CLINTON was a soldier and an MP In 1778 he was appointed to com-mand the British forces in N America, but after the surrender of Yorktown he resigned He died at Gibraltar, where he was governor, Dec 23, 1795 His son, another Sir Henry Clinton (1771-1829), was a leader at Waterloo One of the muses in Greek mythology She was the goddess of history

Long, slender, sailing vessel, with rectangular sails and three Clipper backward-sloping masts It was developed by American builders from French principles in the first half of the 19th century Clippers were renowned for their speed The Cutty Sarl, engaged in the China tea trade, is perhaps the most famous of these vessels

Clipstone Village of Nottinghamshire It is in Sherwood Forest, 5 m from Mansfield, on the river Maun King John had a palace here and there was a camp

here during the Great War

Clitheroe Borough and market town of Lancashire It stands on the Ribble, 38 m from Manchester, on the L M S Rly The industries include cotton mills and paper making works Clitheroe Pendle Hill Pop (1931) 12,098 Near is

Clive Catherine English actress Born in London in 1711, she joined Garrick in 1746 She married, in 1731, a barrister named George Clive, and is always known as

Kitty Clive She died Dec 6, 1785

Clive Robert English soldier Born, Market Drayton, he received a desultory education and in 1743 went to India as a writer in the E India Co In 1746 he helped to defend the fort against the French, and soon his dering and resource made him a leader. In daring and resource made him a leader 1751, with a few men, he captured Arcot, which he held during a long siege and then gained other successes which established the power of Britain in that region

From 1753 to 1755 Clive was in England, where he was hailed as a conqueror Again in India, he was sent to regain Calcutta after the tragedy of the Black Hole, and in July, 1757, won his greatest victory at Plassey

After Plassey, Clive made his nominee, Mir Jaffier, newab of Bengal and himself ruled the country until 1760, when he returned to England, entered Parliament and in 1762 was made an Irish peer In 1765 he went back to India as governor for the E India Co On Nov 22, 1774, Clive shot himself

Cliveden Residence in Buckingham-themes, 3 m from Maidenhead and is famous for its woods The first house was built for George Villiers. Duke of Buckingham The George Villiers, Duke of Buckingham The present one was built from designs by Sir Charles Barry, and was bought from the Duke of Westminster by Mr Waldorf Astor, afterwards Viscount Astor His son, the 2nd viscount, closed the house in 1931

lock Mechanical instrument for keeping time Its mechanism consists of a train of wheels actuated by a spring or other means, and provided with a device to render its speed uniform Clocks were known in the 13th century,

but were probably invented much earlier

One of the largest is Big Ben at West-minster but a larger one has been placed on the building on the Embankment, London erected by Shell Mex, Ltd Many are wonderful pieces of mechanism and some, notably one at Wells, have been in use for centuries Of domestic clocks the grandfather clock is popu-lar as an antique Standard time is recorded

on a clock at Greenwich Observatory

Clockmaking is a highly skilled art The
Clockmakers' Company, one of the London
livery companies, dates from 1631 Its
collection of old clocks and watches, with
books about them, is in Guildhall

Clog Dance Lancashire dance In the skilful toe-and-heel tapping of the wooden soles makes sound patterns of varying rhythm and volume There is also a negro clog dance

Clogher Village of Tyrone, N Ireland It stands on the Blackwater, so m from Dublin, and has a railway station At one time it had a hishen, and sent members.

At one time it had a bishop, and sent members The cathedral still stands to Parliament The word Clogher means golden stone

Cloisonné Method of enamel decoralined upon the base with soldered metal fillets, and the cells filled with enamel paste or powder, the whole being vitrified in the furnace and ground smooth It passed from furnace and ground smooth It passed from Celtic into Byzantine art, and was adopted after 1838 for Japanese enamels

Cloister Four sided enclosure attached to monastic, cathedral and collegiate buildings The arcades are often magnificently vaulted and adorned traceried windows, sometimes glazed Notable examples may be seen at Westminster Abbey, Magdalen College, Oxford and Canterbury, Salisbury and Gloucester cathedrals

Clones Market town and urban district of Monaghan, Irish Free State It is 65 m from Belfast on the Gt Northern of Ireland Rly There are remains of the old abbey and of a round tower Pop (1926) 2365

Clonmacnoise 🚻 Village of Ireland stands on the

Shannon, 8 m from Athlone, and its ruins show it to have been one of the most important ecclesiastical centres in the country abbey was founded here in 540, and there are remains of it as well as of seven churches and two round towers. The remains of a castle are further proof of its early importance

Clonmel Borough of Tipperary, Irish Free State, also the county town It stands on the Suir, 28 m. from Waterford, on the GS Rhys The west gate is a feature of the town, and there are remains Pop (1926) 9,050 of the castle

Clontarf Scasido resort of Dublin, Irish Free State A summer resort on Dublin Bay, it is famous as the scene of the great battle in which Brian Boru defeated the Danes in 1014

Enclosed piece of land In England Close it is chiefly used for the piece of land round a cathedral. In it are the houses of the dean, canons and other members of the staff In Scotland a close is a passage leading to a group of dwellings

Close Time Time during which birds or animals must not be killed or taken. It usually covers the breeding season and varies with the habits of the animal

Closure Word used for a system for before all who wish to speak have done so The idea was borrowed from France and was introduced into the British Parliament in 1882 to prevent members who did not like a bill delaying its progress by making long speeches, sometimes for hours at a time

Cloth Woven fabric The materials may be animal, vegetable or asbestos fibre and metallic wires The unqualified word usually denotes wool or hair fabrics, each trade, however, applying it to its own speciality Richard I prescribed tts own speciality Richard I prescribed 2 yds as the standard width of woollens, Flemish influence brought about the recognition of half width or narrow cloth Broad cloth nowadays implies fine chelly a constitution of the cons cloth nowadays implies fine quality as well

The Clothmakers' Company is one of the twelve great livery companies of London It dates from 1528 and has a fine hall in Mincing Lane It has an income of over £80 000 a year, and has done a good deal for technical education in Bradford

Bartholemew Fair in London was some times called Cloth Fair because cloth was tho chief article sold The Cloth Hall is a feature of some of the towns in the Netherlands

Clothyard English measure of length it was merely the yard of 36 in used for measuring cloth. As the shaft of an arrow was generally a yard long, the arrow was often called a clothyard

Cloud Mass of watery particles susponded in the air at considerable heights. The earliest classification of cloud forms, Lule The carnest cassing and of cloud forms, Luke Howard's (1803) comprised cirrus or cat's tail cumulus or heaped, stratus or high fog, three double compounds of these, and one of all three, nimbus or rain-cloud. This classification expanded by adding alto-cumulus and alto stratus, was adopted by the International Meteorological Conference in 1891

Cloudberry Species of resembling of wild berry The plant is of low growth with rough erect stems about 8 in in height. The fruit is orange yellow and of a slightly acid flavour mas fare and so on, payment being made by

Found in N Europe and other cold regions, it grows in Great Britain only on high moorlands in the north and in parts of Wales

Clough Arthur Hugh. British poet Born Rugby and Balliol College, Oxford From 1849 52 he was warden of University Hall, London, and in 1853 was appointed an inspec tor under the Board of Education He died at Florence, Nov 13, 1861 Clough's best known poem probably is 'Say not the struggle naught availeth' He was a friend of Carlyle, Emerson and Matthew Arnold

Clough's sister, Anna Jemima Clough, was the first principal of Newnham College, Cambridge She died Feb 27, 1892

Clove (Eugenia carophyllata) Pungent aromatic spice, the dried, unexpanded bud of an evergreen shrub of the natural order myrlaceae. The volatile oil of cloves is used medicinally as a carminative and digestive stimulant. Supplies are obtained from Zanzibar and the W and E Indies, especially Amboyna from which the carliest supplies came

Clovelly Seaside resort of Devonshire It is a noted beauty spot on main street descends 400 ft by steps to a little Pop 640

Clover Genus of leguminous herbs (trifolium) native to the north temperate regions Of the 170 species 18 are native to Britain Several are cultivated for fodder, especially red, T pratense, white or Dutch, T repens, crimson or Italian, T incarnatum, and alsike or Swedish, T hybridum They play an important part in the rotation of crops on British farms as they collect nitrogen and add it to the soil collect nitrogen and add it to the soil

Clovis Frankish king A son of Childeric 1, he succeeded his father in 481, and is regarded as the founder of the Frankish realm, of which he made Paris the capital He became a Christian, and died in 511

Clowne Village of Derbyshire On the London and is in a coal mining district There is a cattle market. Pop 5880.

Cloyne Market town of the Irish Free State It is 15 m from Cork, and has a 14th century cathedral and a round tower The Anglican bishopric was united with that of Cork in 1835 There is still a Roman Catholic bishopric. Pop 700

Club Organisation for social, political or kindred purposes. There were associations of men resembling clubs in Greece and Rome In England the most famous is that called simply The Club, which gathered

round Dr Johnson.

To day the best-known clubs are the London clubs with their magnificent houses in Piccacious with their marmineent nouses in Pieca-dilly, Pall Mall and the adjacent streets Some, such as the Carlton and the Reform, are political, others, such as Brooks' and White s, are social, others are for members of the ser-vices and for university men The chief is the Athenaeum Clubs for women, of which the Lycoum and the Forum are notable, are a modern departure modern departure

In addition there are a large number of social and political clubs for working men Others are benefit clubs, which exist to pro-

weekly contributions those associated with athletics, rowing, golf,

tennis and other sports

In 1930 there were 11,780 clubs registered in England and Wales Of these 2827 were trade union clubs, 1321 were Conservative clubs, 1696 were athletic clubs, and 726 were golf clubs

Club Foot Deformity of the foot, either infantile paralysis It usually takes the form of a shortness with the heel drawn up Byron had a club foot, but was a marvellous swimmer

Clumber Nottinghamshire seat of the Duke of Newcastle It is about 3 m from Worksop In 1929 the beautiful house was closed and some of the art treasures taken to Nottingham Castle

Clumber gives its name to a variety of spaniul

lun Town of Shropshire It stands on the river of the same name, 9 m It stands on from Craven Arms, and was a borough until 1886 There are slight remains of a castle

Pop 1900
The River Clun rises in Clun Forest, a tract of land on the borders of Wales, and joins the Teme at Leintwardine in Herefordshire Its.

The forest, one in name only,

covers 12,000 acres

Cluny Town of France It is 12 m from trade. In 910 a Benedictine abbey was founded here The monks had a stricter rule than other Benedictines, and in time the Cluniose as they were called replied as 2 Cluniacs, as they were called, ranked as a distinct order which, by the 16th century, had some 2000 houses, and there were 35 in England, and Lewes having Cluniae Bermondsey priories

The church at Cluny was at one time the largest in Christendom and its library one of

the most noted.

Cluster System of stars having some physical association Star clusters congregate mostly towards the Milky Way Some are irregular, eg., the familiar Pleiades Many have a globular form

Cluster Cup Stage in the life history of an order of minute fungi They are chiefly parasitic on living plants in the form of rust and mildew Wheat rust (puccinia graminis) throws off special spores which are carried to barberry leaves these develop beneath the epidermis, barberry cluster cup, or barberry fungus, comprising cup-shaped membranes enclosing accidium spores which, on reaching the wheat plant, again repeat the life history

Clutch Mechanical device for disconnecting parts of machinery, such as the gears of motor-cars

Clwyd River of Denbighshire, Wales It enters the Irish Sea at Rhvl, and is about 30 miles in length The vale of Clwyd is a fertile valley noted for its scenery

Clydach Industrial centre of Glamorgan-the River Tawe Here, refining works for metals have been opened

There are several other villages named Clydach in Wales A river in Brecknockshire, a tributary of the Usk, also bears this name

further class are some lovely scenery, especially near Lanark, letics, rowing, golf, where are Cora Linn, Stonebyres Linn and other falls

As far as Glasgow the Clyde can be ascended by the largest vessels, and its banks, with shipbuilding yards and engineering works form one of the greatest industrial areas in the world It is connected with the Forth by the Forth and Clyde canal and a ship canal between the two rivers is proposed

The Firth of Clyde extends from Dumbarter to Ailsa Craig, 65 m away In it are Bute.

Arran and other islands
Clyde Lord Scottish soldier. Colin Carran
bell was boin in Glasgow, Oct. E. 1792 In 1808 he entered the army and served in Walcheren, right through the Pennson War and in America during the war of 1812-14 In 1842 he was in China and he fought against the Sikhs in 1848 49, and was kniggted. the Crimea, winning fame at the Alma the Balaclava In 1857 he left for India to emmand the troops there during the mann. Excelleged Lucknow and saw the end of the rebellion In 1858 he was made a baron, when the latest th also a field-marshal Aug 14, 1863 He died at Chathan

Clydebank Burgh and five In E frewshire It stands on the north bark of Clyde, 6 m west of Glasgow, on the little and LNE Rlys It has extensive from other products include sewing means of the products include sewing means of the products and soap The burgh was formed. Dalmuir, Kilbowie and Yoker, King Poper (1931) 46,963

Clydesdale district is the state of the stat

Clynes John Robert

Clynes Born at Oline
he entered a cotton mill
made an organiser of the made and the made an organise of union, of which later he was elected Labour division of Manchester. division of Manchester that the chairman of the parity of the parity of the parity of the controller in 1918, when he was not the first Labour Grood controller in the first Labour Grood Privy Seal and the first Labour Grood Privy Seal and the second 1929-31 In 1931 by the first Labour Grood Privy Seal and the first Labour Grood Privy

mons, regaining in Clytaemnes wife of Agametric Commanding the com an amour with a returned, she and Acquired she and Acquir by her son, (Fee

Clyde River of Scotland. It rises in north for 106 m. until it widens out and becomes the Firth of Clyde Its course is marked by

the treasures of fresco painting, ceramics, sculp ture and metal work have revealed a civilisa tion of the most wonderful kind Its modern name is Katsabas

Coach Large covered vehicle on four wheels Coaches were first made at Kocs, in Hungary, and introduced into England and France in the 16th century for the wealthy They were drawn by two, four, six or eight horses The coach of the Lord Mayor of London gives a good idea of their appearance Early in the 17th century coaches were used for ordinary travelling, and soon med and stage coaches were in general use mail and stage coaches were in general use

Large motor vehicles which carry passengers are called motor coaches As a pastime driving a coach and four horses survives Two clubs, the Four in Hand and the Coaching, exist to further it and each holds an annual meeting in

Hyde Park, London

At one time the building of coaches was an important industry in Long Acre, London The Coachmakers' Company, one of the London livery companies, dates from 1677 and has a hall in Noble Street.

Coadjutor Term applied to a person appointed to assist a bishop in the Roman Catholic Church a coadjutor bishop is usually appointed with the intention that he shall succeed the one he assists

Coal Carbonaceous material form forming represents the remains of ancient land vege tation which has undergone slow chemical change, chiefly reducing the oxygen and in oreasing the carbon content up to 75 or 90 per cent In the lignites and brown coals the mineralisation is at its lowest, and these consist of earthy or compact masses giving a brown or black streak They contain a greater proportion of volatile matter, with 60 to 75 per cent of fixed carbon and are very in flammable

Common coal is black, compact, less in flammable than lignite, and contains 75 to 85 per cent of carbon with a lower proportion of volatile matter

Steam coals are less bituminous, burn well with a large flame and little smoke Anthracite, the most mineralised of coals, consists almost entirely of carbon and has a sub metallic lustre, it gives out little or no smoke Large come from Pennsylvania. South

Wales is the chief source of the British supply
The world's total production of coal in a
single year is about 1,056,000,000 tons the
United States producing 390,000,000 tons, United States producing 390,000,000 tons, Great Britain 219,000,000 tons, and Germany 116 000,000 tons. The rest of the world produces little more than 390,000,000 tons chiefly in France, Poland, Russia Japan Belgium and Indla Various estimates of the world's coal reserves have been made, but none are very reliable as new fields are discovered from time to time, and it is found possible to work at greater depths. There are believed to be enor mous deposits untouched in Canada, S Africa, China, Japan and elsewhere

The chief British coalfields are Lanarkshire, Northumberland, Durham, Yorkshire, Notting hamshire Derbyshire, Lancashire, Warwickshire, Staffordshire and South Wales A new field has been found in Kent. The number of workers is about 957 000 The manufacturing industries take 70,000 000 tons a year, house holders take 40.000.000 tons. cas works Industries take 40,000,000 tons, ras works established in 1935 with the first commercially 17 000 000 and railways 14,000,000 The successful attempt to produce petrol from coal collicries themselves take about 20,000,000 tons Experiments were begun as early as 1910 by

and much of the balance is exported abroad To an unusual extent the industry of coal mining in Great Britain is regulated by the In 1908 the working hours of the miners were limited to eight a day During the Great War a government coal controller was appointed In 1919, to avert a threatened strike, a royal commission was set up under Sir John Sankey to inquire into the conditions of the industry A reduction of hours and an increase of wages were advised and carried out. but the nationalisation of the mines, also advised by the majority, was not accepted. However, a welfare fund for the miners was instituted and a department of mines, now part of the Board of Trade, was formed

On March 31, 1921, government control of the mines ceased and at once a strike which lasted for three months began The agree ment provided for a system of profit sharing, and for three or four years the industry was fairly prosperous and contented, but in 1925, rainy prosperous and contented, but in 1925, the employers, faced with increased competition from France and Germany, declared their inability to continue the existing rates of wages To keep the miners at work the Government promised a subsidy while a royal commission under Sir Herbert Samuel in quired into the position. This reported early in 1926. It declared against the subsidiar has in 1926 It declared against the subsidy but in 1926 It declared against the subsidy but made various proposals for reforming the industry. The men refused to accept its findings and on March I they ceased work the strike lasting until Nov 30. The men then accepted the owners' terms, each district making its own arrangements. The law limiting the hours of work to seven a day was repealed and other legislative changes made to the effect to the settlement. give effect to the settlement.

In 1930 the Labour Government passed into law a measure which provided for marketing and amalgamation schemes, and reduced the hours of work to 71 daily The principle of a quota for each district was introduced There was further legislation in 1932 was further legislation in 1932 in Dec 1935, and Jan, 1936, Britain was threatened with another national coal strike, which however, was averted when, on Jan 23 the miners agreed to accept the profiered terms These included a wage increase ranging from 5d to 1s per day In Dec

COAL-GAS -- When coal is distilled, volatile COAL-GAS—When coal is distilled, volatile products evolve, leaving coke Coal gas and coal tar are two of these When the volatile products are cooled coal-gas is left After purification, it consists of a mixture of gases, divisible into three classes, one of which con tains the illuminants, ethylene, propylene butylene, acctylene, allylene, and benzene. Coal gas is obtained from any bituminous coal and is used widely for lighting and more coal, and is used widely for lighting and many industrial and commercial purposes

COAL-TAR—Dark, viscid oil, obtained as a by-product during the distillation of coal Benzol is obtained up to 140° C, and in 1858 it was discovered that aniline dyes could be prepared from benzol. Two more redistillations up to 170° C produce solvent and burning naphtha. From 170° 230° naphthalene and carbolle acid are given. From 230° 270° creosoto oil and lubricating oil are formed, and later, anthracene oil, anthracene, lamp black, pitch and coke These products in turn are used largely in the making of drugs, perfumes, explosives, dyes, disinfectants, and motor car fuel

COAL-OIL.—An important landmark was established in 1935 with the first commercially

Bergius in Germany, and it was by development of the Bergius process of hydrogenation that the present results were obtained process is carried out at the Imperial Chemical Industries' works at Billingham

Coalbrookdale District of It stands on the Severn, 11 m from Shrowsbury and 143 from London, on the G W Riv Its coal mines and ironworks are less productive than for-

merly

Coalition In politics, a working arrange-ment between two or more parties, usually made in order to carry on the government In Great Britain there was a coalition between Fox and Lord North in 1783 In 1895 the Conservatives and Liberal Unionists united In 1915 a coalition government was formed to carry on the Great War and another coalition under Llovd George lasted from 1916 to 1922 In Canada there was a coalition ministry for the same purpose under Sir R L Bordon The British national ministry formed in 1931 was not a true coalition

Village in Shropshire It gives Coalport Village in Shropshire to give of por celain Works were established at Caughley, In the same county, about 1750 In 1790 they came into the possession of John Rose, who, in 1814 moved them to Coalport. He also acquired the Nantgarw & Swansea Works

acquired the Nantgarw & Swansea Works Rose invented a new leadless glaze about 1820 The factory is still in operation

Coalville Urban district of Leicestorshire It is 5 m from Ashbyde la-Zouch and 113 m from London by the LMS Rly The chief industries are collieries, foundries and tile making Pop (1931) 21 886

Coast Boundary between land and ser repeated elevation and depression, being subject to increasing, weathering, river de-position and beach transport. Continental coasts are those in which the sea impingel upon the solid land, marine coasts those formed of soft materials sorted out by the sea sconery is governed by the relation of hard to soft rock, dip of strata and valley pattern imposed by crustal movements, presenting such types as flord coasts, lagoon coasts and ironbound coasts

In England the coast is crumbling away in parts of Norfolk, Suffolk and the Isle of Wight

In other areas the sea is receding

Coastguard

Body of men engaged to
patrol the coast. In

Great Britain they are recruited from the navy and under the direction of the Board of Trade They have stations at various points along the coast which is divided into districts, each under an inspector. The men were originally employed to stop smuggling and this they still do as well as render aid in case of shipwreck.

COAST LIFE SAVING CORPS Voluntary organisation created in 1932 Originally raised to help the coastguard service, it was made up of three main branches, the first including the membors of existent life saving appliance companies and brigades, numbering between 4000 and 5000 The second branch consists of watchers, as required at places where there are no coastguard stations, and at constguard stations when relief is needed Finally, there is an intelligence section, which includes all persons who volunther to assist the coastguard in an energency, as with motor cars, telephones, etc

Coatbridge Burgh of Lanarkshire It the L MS Rly It stands on the great L shire confield and has blast furnaces and works for smelting tin and producing iron, steel and tinplate Pop 43,900

Coates Albert English musical conductor He was born, April 23, 1882, in St Petersburg Educated in England he returned to Russia and conducted Imperial Opera at St Petersburg for five years In 1919 he was conductor to Sir Thomas Beecham at Covent Garden Later he was conductor of London Symphony Orchestra, and Royal Philharmonic Society, and Director of Philharmonic Orchestra, Rochester, Now York from 1923-25, when he returned to England He wrote the opera. Samuel Pepus, in 1929

Coates John British singer Born at Bradford, June 29, 1865, he was educated at Bradford Grammar School He first appeared in London as a tenor singer at the Savoy Theatre in 1894, and first sang in royal opera in 1901 He has sung in America, France, Germany, South Africa and Australia After seeing service in France in the Yorkshire Regt., resumed his musical career in 1919 1928 he celebrated the 50th anniversary of his first appearance as a boy vocalist.

Coates Joseph Gordon New Zealand politician Born in 1878, he was elected to the House of Representatives in 1911, and in 1917 went to France on active service In 1919 he was made minister of justice and later took charge of railways and other departments In 1925 he succeeded W F Mussey as premier, retaining that post until the end of 1928 In the Coalition Cabinet which assumed office in 1931 he was Minister of Public Works until 1933, and thereafter Minister of Finance and of Customs

Genus of arboreal mammals in-Coati habiting Central and South America With flexible, upturned snouts and long tails. they feed upon birds, lizards and insects, which they hunt in troops. Some are tamed and kept in captivity

Coat of Arms Heraldic achievement of an individual or community It is borne on a shield or escutcheon, generally with crest and motto and sometimes badge and supporters Their use, fostered by the need for distinguishing warriors whon acting together, especially during the Crusades, expanded rapidly The practice of embroldering them on the surcoat over the

armour originated the term coat of arms
Arms are granted in England by the College of Arms and in Scotland by the Lyon King-at-Arms Fees amounting to over £100 are charged Corporations, schools, and other corporate bodies can obtain coats of arms in

the same way

Coats Name of a famous Scottish family James Coats began to make thread at Paieley before 1800 and the business was continued by his sons, Peter and Thomas It soon became the largest of its kind in the world In 1890 it became a public company and absorbed the rival firms of Clark, Chadwick, and others. Peter Caste (1808-00) hed a control of the cont and others Peter Coats (1808-90) had a son James, who in 1905, was made a baronet the sons of Thomas Coats (1809-83) one became Sir Thomas Glen-Coats, Bart (1846-1922) and another, George (1849 1918), became Baron Glentanar

Coats Land Antarctic region It is on the southern edge of the Weddell Sea. It was discovered in 1903 by Dr Bruce and named after the Paisley family who provided the funds for his expedition

Cobalt Metallic element It is widely sociation with nickel, copper and arsenic, chiefly in the minerals cobaltine smaltine and an earthy variety of wad Cobalt is a greyish white, hard, tenacious and malleable metal of economic importance only in the form of its alloys and compounds

Cobalt Steel is of value for making magnets and the valves of internal combustion ragness and the varies of merical combustions rengines. Various compounds of cobalt are used as pigments and in making varnishes. The chief supplies come from Ontario but cobalt is also found in Australia, S. Africa and other parts of the British Empire. Its chemical symbol is Co, and its atomic weight 58 95

Cobalt Town of Ontario, Canada. It stands on Cobalt Lake in the north of the province, 330 m from Toronto with which it is connected by railway Silver, cobalt and nickel abound Pop 5600

Cobbett William English reformer Born at Farnham, Surrey, March 9, 1762, in 1802 he started his Weekly Political Register in which he advocated a number of reforms In 1810 he was sent to prison and fined \$1000 for denouncing flogging in the army He was elected MP for Oldham in 1832, and died near Guildford, June 18, 1835 Cobbett's most popular book is his Rural Rules -a description of England as he saw it.

Cobden Richard English politician Born at Heyshott, Sussex, June 3, 1804, from 1847 to 1867 he was MP for the West Riding of Yorkshire and from 1859 to 1865 for Rochdale When in Manchester Cobden became the leader of a little group who agitated for the repeal of the corn laws which came about in 1846 For nearly 20 more years Cobden worked assiduously for the causes of free trade and peace, which he believed were closely linked So earnest was his advocacy of free trade that since his day Cobdenism has been a synonym for it. He died in London, April

2, 1865
To press forward Cobden's ideas the Cobden Club was founded in 1866 Its address is 69 Victoria St., London, S W 2

Cobham Village of Surrey, sometimes called Church Cobham It stands on the Mole, 19 m from London, on the Southern Illy There are an old church and a water mill 700 years old Pop 5100

Another Cobham is a village in Kent. 4 m from Gravesend and has an old church with some notable crosses There was a college of priests here in the 14th century and there are remains of this, as well as some 16th century almshouses

Cobham Sir Alan John English airman Born, May 6, 1894, he was educated at Camborwell He went to France cducated at Camberwell He went to France in 1914 and in 1917 received a commission in the Air Force When peace came be joined an aircraft firm Among his long flights were those from London to Rangoon and back 1924, London to Cape Town and back and London to Australia and back 1926 He won the King's Cup in 1924, the Britannia Trophy in 1925 and 1926, and was commander pilot of the first flying boat expedition round Africa

It is Knighted in 1926, he lies published several ige of books on his experiences

Cobham Viscount English English when Richard Temple of Stowe was made a viscount. His sister, the wife of Richard Grenville, suc ceeded to the viscountship, which passed to her descendants the Earls Temple, afterwards created Marquess and Duke of Buckingham In 1889, when the last Duke of Buckingham dled, the viscountship passed to a distant relative, the 5th Baron Lyttleton, a descendant of a sister of the 1st viscount

Lord Lyttleton, who then became the 8th Viscount Cobham was a noted cricketer He died in 1902, when his son, James Cavendish Lyttleton, became the 9th viscount The family seat is Hagley Hall, Worcestershire There is a barony of Cobham revived in 1916

for a member of the Alexander family

Coble Flat bottomed fishing boat used on the Northumbrian coast It has three pairs of oars and a lug sail. It is used mostly in the cod and turbot fishery

Coblenz City of Germany Situated at the Confluence of the Moselle and the Rhine, 67 m above Cologne, it is dominated by surrounding hill forts and by Ehrenbroitstein across the Rhino There is a trade in wine In 1918 the city was occupied by American troops Pop (1925) 58 322

Cobnut Fruit of several species of hazel avellana, is native to Britain The red and white filberts of Kent are famous

Cobourg Port and market town of Ontario Situated on Lake Ontario, it is 73 m east of Toronto It is a summer resort and there are a few manufactures It has a station on the C N Rlys Pop 5 834

Cobra Genus (Naja) of venomous snakes able to dilate the neck into a hood The best known, the Indian black snake Nationalism bears a binocular mark on the neck The king cobra, or hamadryad (N bungarus) is larger and flercor, but rarer The African N haje is the Cape spitting snake and the Egyptian asp

Coburg Town of Bavaria. It is 34 m from Bambers on the river Its Coburg was the capital of the Duchy of Saxe Coburg Gotha, which, owing to the marriage of Queen Victoria and Prince Albert, was closely associated with England The ducal palace associated with England The is now a museum. Pop 24,000

Coca (Erythroxylon coca) Bolivian and Peruvian shrub of the flax order Bolivian and The leaves produce a tingling sensation when chewed, followed by deadening of the sensation of hunger S American Indian tribes have for centuries used the leaves for mustication The plant now grows in the W Indies and S Asia It yields the alkaloid cocaine

Cocaine Alkaloid extracted from coca the hydrochloride serves as a local annesthetic in dentistry and minor operations. It is some in denustry and minor operations. It is some times taken to relieve pain, but even a small dose may induce the habit of taking the drug, while large doses will cause death. So pernicious is the habit of taking cocaine that the League of Nations has attempted by international action to stop the traflic in it. Cocco (Colocasia antiquorum) West In

The rhizomes beaten, are fermented and baked as bread

Coccolities Minute, saucer-sacron bodies They are found in deep-sea deposits in deep-sea deposits bodies called immense quantities in deep-sea deposits associated with similar rod-like bodies called rhabdoliths. They have been detected in limestones back to the Cambrian period, especially in chall:

Cochin China French colony in Indo-China Since the French occupation in 1867 it has had a Lieutenant-Governor Its area is 26,478 sq m, the capital Salgon, and its pop (1931) 4 467,352

Cochineal Dve used in cooking for crimson tints It is obtained from the body of a female insect which inhabits Mexico and Peru

Cochran Charles Blake English show man Born in Sussex, Sept. 25, 1872, he went to the United States and became an actor In New York he gained a good deal of experience about stagecraft and theatrical work generally, which he turned to good account on his return to London He made a reputation by the spectacular display of The Marcels at Olympia in 1900 and its elaborate Miracle at Olympia in 1900 and its elaborate revival at the Lyceum in 1932, and was res ponsible for some important boxing and other contests In 1925 he published The Secrets of a Showman

Cockatoo Family of birds of the parrot order Inhabiting Australia and the Malav archipelago, but not New Zealand, they have recurved crests which can be erected at will Their coloration is mostly white, tinged with vellow or red The Australian rulphy recented acclusive is a popular as a part sulphur crested cockatoo is popular as a pet

Cockatrice Mythical monster It was supposed to possess a deadly touch, at which plants withered, and an evil eye reputed to kill men and animals Hatched by a serpent from a cock's egg, it could be killed by the sound of the crowing of a cock

Cockayne Imaginary land The "land scene of mediaeval French and Italian fables," sometimes by way of ridiculing the equally mythical Avalon, or Island of the Blest.

Cockburn Sir Alexander James Edmund British lawyer Born Dec. 24, 1802, he was educated at Cambridge and became a barrister. In 1847 he entered Parliament as MP for Southampton In 1850 he became Solicitor General in the Liberal ministry and from 1851 to 1856 he was Attorney General In 1856 he was made Chief Justice of the Common Pleas and in 1859 Lord Chief Justice He tried the Tichborne case and represented Great Britain in the Alabama arbitration He died Nov 20, 1880

Cockchafer (Melolontha) Popular name of a genus of Limellicorn beetles. The brown elytra make a whirring sound in flight. The two destructive British species include the common cockchafer (M vulgaris) which is far more injurious to crops elsewhere in Europe The rose chafer (Celonia aurala) is green

Cockermouth Urban district and town of Cumberland It is 32 m from Carlisle, on the L MS Rly There are a church, a grammar school, and the ruins of a castle in which Mary Queen of Scots, was imprisoned Pop (1931) 4789

Cocker Spaniel Breed of dog A heavily built typo of field spaniel, it has short, stout limbs, needent ears and long, silky coat this is pendent ears and long, silky coat this is black in modern English, liver or liver-and-white in the smaller or Welsh variety. It is readily trained to start game in woodland or marshland, and owes its name to its service in woodcock shooting It gives notice by barking

Cock Fighting Sport of pitting game-another It was introduced into Europe during the Persian wars, and was a favourite mediaeval diversion, although forbidden by Edward III and Henry VIII Charles II. had a cockpit in Whitchall, London

The sport has been illegal in England since

1849

Cock Lane London thoroughfare in Clerkenwell It is notorious for an imposture called the Cock Lane Ghost in 1732 A certain William Parsons and his wife, intent on blackmalling a neighbour contrived, through the 11-year old daughter, Elizabeth, some mysterious noises and a luminous figure Crowds, including Samuel Johnson, visited the house The authors were

exposed and punished

Cockle Family of bivalve molluses the typical genus, Cardium, has equal convex shells, heart shaped in profile, with radial ribs and scalloped edges. The common British C edule, raked out of the sand at low water, is boiled and caten

Cockney Colloquial name for a person born in London, more strictly within the sound of the bells of S Mary-le Bow, Cheapside

Cock of the Rock Genus of perching birds of the chatterer family (Rupicola), also called cock manikin The three species, inhabiting Peru and Ecuador have compressed semicircular, helmet-like crests The plumage is collected and used for millinery purposes

Cockpenny hee formerly paid at notebly in Lancashire and Yorkshire, at Shrovetide In return the master provided gamecocks for the day's diversions

Cockpit Enclosed arena in which cock fighting took place It was a round building, lit from above, and in the middle was the arena, about 20 ft in diameter

Also the cabin on warships where wounded men were treated In the cockrat of the Victory Nelson died, at the Battle of Trafalgar in 1805 It is also used for the part of an aeroplane fusclage which contains the airmen

Cockroach Reddish-brown insect short-winged, flat-bodied with leathery integuments and long antennae The temale carries her eggs in a horny capsule The larvae are white. The cockroach belong: to the Blatte lae and is vorncious and odoriferous Arsenic or phosphorus mixed with flour or catmeal, is useful for killing them.

Cock's Comb Annual plant with small oval leaves and a ridged head of red bloom somewhat resembling a cock's comb in shape A native of Asia, it grows in British gardens

Cocktail Popular eperitif Most varieties and flavouring matter The coel-tail originated in the United States and now nearly every large 300

COCOA Corruption of the word cacao, the name of a tree The seeds provide the raw material from which eccea powder is manufactured The world's output of cacao beans is about 522,000 tons, chiefly from America and Africa The average consumption in Great Britain and Northern Ireland is 2 9 lb

(Cocos nucifera)
Tree of great Cocoanut Palm conomic importance It is cultivated in many tropical countries, flourishes near the sea and is the source of many valuable products. The is the source of many valuable products. The outer husk of the fruit furnishes coir for matting, ropes, brushes, etc. The kernel is edible, and, when dried forms copra, which is the source of coconut oil used in making soap, candles and margarine. The refuse makes oil cake for cattle

(French, cocon, a small shell)
Case which some larvae of the Cocoon lepidoptera make and use as a shelter in which to pass their pupal stage The cocoon of the silk moth yields silk.

Islands Group of coral the Indian Ocean The islands, about 20 in number, are 1,161 m from Singapore They produce coconuts and are noted for their crabs Dis covered by Captain Keeling in 1609, they were annexed by Great Britain, and since 1903 have been governed as part of Singapore Near here, in Nov 1914, the Sydney destroyed the German cruiser Emden Pop (1931) 1142

Cod Fish which frequents the North Atlan tic Ocean It averages 3 ft in length, but sometimes reaches 6 ft. The cod is a very valuable food and the cod fishery an important industry It is chiefly found off the shores of Newfoundland and in the North Sea The fishing season lasts from March to Oct The liver yields cod liver oil, and isingless is another product In 1930 259,927 tons of cod were landed in the United Kingdom and Ireland, its value being £3,454,480

Code Collection of laws or rules It may be a systematic restatement in a convenient form of existing law, such as several issued during the Roman Empire pre-eminently that by Justinian, whose code has profoundly affected the modern world It may be a complete body of statute law displacing previous legislation such as the Code Napoléon, or the

Indian penal code

There are also codes of words and ciphers to facilitate telegraphic communication, codes of signals, and codes for international collections, such as the Strickland code for the systematic

naming of animals

Codicil (Latin, codicillus, a little book) Name applied in English law to the supplement added to his will by a testator who desires to alter or add to the provisions of the main accument See Will.

Cody Samuel Franklin British airman the United States in 1861, he settled in England in 1896 and was naturalised He was employed at Aldershot in the a nightcap, and also by Fnglish early days of aviation and experimented with

hotel has a cocktail bar, while cocktail parties have become a form of entertaining

Cocles Horatius Roman legendary hero With two comrades he defended a bridge over the Tiber against Porsena's army of invaders Whon it had been broken down he swam back across the river He was given as much land as he could plough in a day

Cocoa Corruption of the word cacao, the Cocoa name of a tree The seeds provide parts of Europe He died at Denver Jan 10, 1917 Cody won the name of Buffalo Bill by 1917 Cody won the name of Buffalo Bill by killing buffaloes when engaged to supply meat.

Co-Education instruction and train gether They are so taught in junior schools and at colleges and universities but the term co-education is usually reserved for the teaching of boys and girls between the ages of about 10 and 16 in the same establishment and in the same way

Coercion Application of force, to compel a person or persons to a certain line of action, which is usually distasteful Coercion Acts are acts of parliament passed from time to time by the British Government for the enforcement of law and order in Ireland They were followed by much disorder, which reached a climax in the Phoenix Park murders. The Act of 1882, directed against public assemblles, the Act of 1887 and others passed at various times, including that of 1920 which set up tribunals to suppress crime, have been called Coercion Acts

Coffee Genus of evergreen trees and shrubs They grow in warm countries and produce berries, the beans of which are ground to make a popular beverage The plants are extensively grown in Brazil,

Arabia, and elsewhere

The first coffee came from Arabia, but
Brazil is now the main source of the world's

Coffee House coffee Place for providing and The first coffee houses refreshments England were opened in Oxford in 1650 and in London in 1652 The modern coffee house is a rival to the public house and is controlled by temperance reformers

Coffer Fish (Ostracion) Genus of tuft file fishes The body is encased in a mosaic like cuirnss of six sided bony plates, sometimes with ridges, and with horns projecting above the eyes There are no ribs

Cognac Town of France Situated 25 m west of Angoulême it was the birthplace of Francis I who concluded here a treaty against Charles V in 1526 it was also a Huguenot stronghold The finest French brandies, known as cognac, are distilled here Pop 19,500 Town of France Situated 25 m

ohesion Physical force binding together molecules of the same material as distinct from the adhesion of molecules of different materials Upon cohesion matter depends for hardness tenacity, elasticity, Upon cohesion matter malleability and ductility

Cohort Name given in the Roman army to a unit of infantry. The term is also used in biology for a group of adject families of plants or animals

Coif Close fitting cover for the head in mediaeval times Later it was worn as a nightcap, and also by English serieants of

Coil Wire wound spirally or otherwise for enormous keep and contains a museum There creating a magnetic field when electric are considerable ruins of two religious houses currents are passed through it, an inserted iron bar being magnetised Induction coils, in which a lower voltage current in a primary coil, induces a higher voltage current in an outer secondary coil, are used in telephony and for medical and other purposes Ch steady rapid fluctuations in Choking coils alternating Resistance coils offer definite resiscurrents tance to the passage of current Search coils carried by aircraft assist landing in fog

Coin Metallic unit of exchange Coinage measure of value replaced the cumbrous method of barter, and its issue is an exclusive privilege of Government It is of two kinds standard money of intrinsic value such as the gold sovereign, and token money whose intrinsic value is normally less than its nominal value, such as the silver currency

Gold, silver, bronze and nickel are the chief

metals used for coins

In Great Britain the silver coins are for 6d 1s, 2s and 2s 6d Threepenny pieces are occasionally seen Bronze coins are the penny, the halfpenny and the farthing In the British Empire New Zealand uses the British coinage Australia, S Africa and the Irish Free State use the same units, but with their own designs Canada has the dollar and various cent pieces and India the rupee

In Great Britain in 1930 the number of coins struck at the roval mint was 185,090,208, of which 73,847,176 were for Imperial, 27,797,032 for colonial and 83,446,000 for foreign use

Coir Outer covering of the shells of coconuts It is an extremely strong fibre which is made into yarns used in the manufacture of coconut matting and coarse brushes

Coke Product obtained by heating coal in confined ovens for eliminating its volatile constituents. It comprises up to 90 pc. of carbon, with gases and incombustible ash, sulphur is a frequent impurity Coko burns with intense heat, without smoke or spark, and is sometimes used as a domestic fuel, usually in closed grates

Coke Sir Edward English lawver Born at Mileham Norfolk Feb 1 1552, He entered the House of Commons in 1589 and was made speaker in 1593 In 1594 he was chosen attorney-general, in which capacity he prosecuted Essex, Raleigh and others In 1606 he became chief justice of the common pleas and in 1613 chief justice of the King's Bench

As a judge, Coke resisted the claims of James I to make extensive use of the royal prerogative. In 1617 he was dismissed, and became a champion of the rights of Parliament. In 1621 he was imprisoned but on his release he helped to frame the Petition of Right Coke died at Stoke Poges, Sept 3, 1634 His chief work is his Institutes

Colbert Jean Baptiste Trench states-1619, he was made minister of finance by Louis XIV in 1661, and for over 20 years the leading statesman He died Sept 6, 1683

Colchester Borough, market town and river port of Essex It stands on the Colne, 52 m from London, on the LNE Riv There are some manufactures, shipping and corn and cattle markets. The town is also a military centre and is famous for its oysters, the beds being the property of the corporation The Norman castle has an

As Camalodunum, Colchester was an important Roman city—probably the most important after London Pop (1931) 48,607

The title of Baron Colchester was borne by the family of Abbot from 1817 to 1919 when

the third baron died Charles Abbot, the first baron, was Speaker of the House of Commons from 1802 to 1817

Cold Absence of heat This being radiant energy, molecular movement is held to cease at -273° C, the temperature of absolute cold Helium is liquefled within absolute cold 2½° of this abso 21° of this absolute minimum. In medical practice cold applied to the body subdues pain, inflammation and feverish peratures, arrests bleeding and stimulates by cold bathing Prolonged exposure to cold, reducing the oxygenation of the blood, may result in death Cold is used in food preservation and storage An attack of catarrh is often called a cold

COLDS A cold indicates an inflamed condition of the mucous membrane lining the respiratory tract, causing hoarseness, running at the nose, sore throat, etc It is infectious and will spread throughout the household

unless every care is taken

Treatment—Quinine has a preventive value, and, if taken in time, will often prove effective A hot mustard bath with a hot drink of whisky and water, lemon or black currant juice, etc., and rest in a warm bed will also prove beneficial in the initial stages. An aperient should be taken and the bowels kept open during the course of a cold.

A Cold in the Head can best be relieved by the light menthal in builing water.

inhaling menthol in boiling water, or by the

use of a nasal douche

A Cold in the Chest should be treated by rest in bed in a werm room, by steam kettles hot applications to the front and back of the chest (turpentine stupes, thermogene wool, linseed poultices, etc.), and by hot, demulcent drinks

Colds should never be neglected, since many ailments start with what appears to be a common cold Patent cold or cough mixtures should never be given to children Chronic sufferers should consult a doctor as vaccine inoculation is sometimes advised, or there may be some cause such as enlarged tonsils, or adenoids which require removal

Cold Harbour Village of Surrey Dorking and has a large and picturesque Among other English villages of this name is one near Harpenden

Cold Storage Method of preserving perishable food It consists in maintaining the atmosphere at a suitable temperature, often at or below zero Refrigeration has played an important part in the foreign meat trade, enabling frozen carcases to be sent to great distances. Ice safes are also much used by retail butchers and the invention of an electrical method is extending invention of an electrical method is extending refrigeration to domestic use

Coldstream Burgh of Berwickshire, stands on the Tweed. 13 m from Berwick Before the the Tweed, 13 m from Berwick Before the bridge was built here in 1766 the river was crossed by a ford Hasty marriages, as at Gretna Green were celebrated at Coldstream Pop., (1931) 1233

Coldstream Guards Oldest regi-

British army One of the five regiments of foot guards, it dates from the time of Crom and made friends with Wordsworth well's new model army, and takes its name from the village of Coldstream Charles II then lived at Keswick but his later years were made it a regiment of foot guards The Cold-streamers have a long record and The Cold-The Coldstreamers have a long record of active service dating from 1678 to the Great War The head-quarters are in Birdcage Walk, London, S W 1, and the motto is Nulli Secundus

Colenso Village of Natal, S Africa It stands on the Tugela, 15 m from Ladysmith, with which it is linked by railway There was fighting here when the British were trying to relieve Ladysmith, and the village was captured Feb 20, 1900

Colenso John William English divine Born at St. Austell, Cornwall, Jan 24, 1814, and educated at Cambridge he became famed as a mathematician and writer of popular books on algebra and arithmetic Having been ordained, he had a living in Norfolk from 1846 to 1853, when he was made Bishop of Natal In S Africa he compiled a Zuln grammar and dictionary He died at Durban, June 20, 1883

Coleoptera Order of insects comprising the beetles. The fore wings are modified into a pair of stiff, horny sheaths called elytra—found also among earwigs—encasing the transparent, membraneous hind wings These are the flight organs, and when inactive they generally fold transversely beneath In the many beetles lacking hind-wings, the elytra are sometimes fused together in oil beetles they overlap About 150,000 species are named

Coleraine Urban district and sea port of Londonderry, N Ireland. It is on the Bann, 4 m from its mouth and 61 from Belfast and is a centre of salmon fishing Linen is manufactured and there is some shipping Pop (1926) 7800

Coleridge Baron English judge Born at Ottery St. Mary, Devon, Dec 3, 1820, John Duke Coleridge went to Eton and Balliol College, Oxford, and became a barrister In 1865 he was elected M.P for Exeter as a Liberal. In 1868 he was made Solicitor General in 1871 elected M.P for Exeter as a Liberal. In 1868 he was made Solicitor General in 1871 Attorney General, in 1873, Chief Justice of the common pleas, and in 1880, Lord Chief Justice He died June 14, 1894 Lord Coleridge's barony, created in 1873, passed to his son Bernard (1851-1927) He was a Liberal M P, 1885 94, and a judge of the high court, 1907 23

Coleridge was born Sept 19, 1796 at Clevedon, Somerset being the cldest son 8 T Coleridge After an early education under Southey he went to Oxford He produced several books, but is only remembered by some poems and as the son of his father He died on Jan 6, 1849

A sister, Sara (1802 52), wrote some books and married a cousin, Henry Nelson Coleridge

and married a cousin, Henry Nelson Coleridge
Coleridge Samuel Taylor English
at Ottery St. Mary, Devon, Oct 21, 1772, and
educated at Christ's Hospital, London and
Jesus College, Cambridge, his radical opinions
and his debts led to his departure from the
university without a degree, and for a short
time he was a soldier Having published his
first poems, he became associated with Southey
and Lamb He then married (1795), and lived
for a time at Clevedon and in Bristol He moved

and wrote a good deal but his power of sus tained effort was seriously weakened by his habit of taking oplum However, this was partly overcome before the end, and Coleridge appeared as a talker of unusual brillance. He dled June 23, 1834 and was buried at Highgate

Coleridge's intellectual gifts were of a very high order His Table Talk shows one aspect of his genius his Aids to Reflection and Confessions of an Enquiring Spirit another and his Biographia Literaria that of a literary critic whose influence was very great indeed His lectures on Shakespeare and Milton are remarkable efforts The Rime of the Ancient Mariner is his greatest creative achievement His other poems include the unfinished Christabel

Colesberg Town of S Africa In the Cape Province it is 608 m from Capetown and 307 m from Port Elizabeth It stands high and is the centre of cattle and sheep farming There was a good deal of fighting in this region in 1899 1902 Pop 1000

Colet John English scholar Born in London about 1467, he studied at Oxford and abroad and was then ordained He was dean of S Paul's from 1505 until his death, Sept 16, 1519 Colet, one of the leaders of the Renalssance in England, founded S Paul's School

Colic Severe abdominal pain due to spasm COIIC of an involuntary muscle A symptom of disease, not a disease itself, it may arise from indigestible food associated with constitution or diarrhoea. The relief afforded by pressure distinguishes it from inflammation Lead colic is caused by lead poisoning one form, Devonshire colic, is due to cider acting on leaden drinking vessels

Treatment -Massage of the abdomen, warm applications teaspoon doses of dill water and 1 teaspoonful of olive or easter oil Gall-stone colic and kidney colic in adults calls for immediate medical attention Apply hot fomentations until arrival of doctor

Coligny Gaspard de Huguenot leader family, Feb 16, 1619, he led the Huguenots, fought on their side in the civil war and in 1569 became commander of their forces On Aug 24 1572, the admiral was murdered in Paris one of the victims of the massacre of S Bartholomew Coligny's daughter, Louise, married William the Silent, Prince of Orange

Colinton Suburb of Edinburgh It is LMS Rly Here are barracks and also the new gaol

Colitis Inflammation of the colon or large intestine It is a localised form of enteritis or intestinal inflammation usually marked by diarrhoea Mucous colitis a chronic inflammatory condition of the mucous membrane is often accompanied by meurasthenia Ulcerative colitis may be dysenteric caused by a known amoeba or known bacilli, or non dysenteric, a form frequently chronic in Britain, this lasts for two, three or four months, and is unassociated with specific micro-organisms

It is 13 m long and covers about 25 sq m

Collar Band worn round the neck of cloth, jewels precious metal or chain mail. Collars are badges of certain callings, e.a., those of the clergy The sailor's large collar was originally designed to protect the clothing from the greasy pigtail then worn

The collar bone is a bone in the upper part of the human body, more correctly called the

clavicle (q v.)

Collateral Word meaning situated at the side or parallel The word has several applications in law Collateral relations are those not in the direct line. Collateral security is an additional security for the fulfilment of an obligation or contract, and is surrendered or discharged when that fulfilment is completed Thus a bill of exchange for a debt or mortgage may be fortified by a collateral deposit of shares

Collation Term meaning bringing to-gether. In bibliography, it denotes the minute comparison of MSS or denotes the minute comparison of MSS or editions of books one with another, in book-binding assembling the unbound members for binding In monastic custom reading and discussing edifying works, followed by a light meal was called a collation The word is used sometimes for a meal

Collect Concise prayer, varying according to day, week or season Of 82 collects in the Book of Common Prayer, 57 were translated from the Sarum breviary The remainder were added by the compilers or revisers of 1549, 1552 and 1661

Collection Word meaning the offertory those assembled at a religious service. The examinations held in the Oxford colleges at the end of each term are called Collections.

Collectivism Term first used when Mikhail Bakunin described himself as a collectivist anarchist. A congress at Havre in 1880 adopted a collectivist programme demanding the state ownership of all means of production, to secure for the community as a whole an equitable distribution of the fruits of their associated labour. It is loosely used as a synonym for socialism

Organised association of persons College having common rights, duties or pursuits. Colleges grew up in the older univer sities as places of abode for students and teachers. The most general use of the word, however, is for an educational establishment between a university and a school, colleges of

agriculture mining and so on
A third kind of college is an association of
professional men, as the Royal College of
Physicians, the College of Nursing, the Royal
College of Music. In the United States the
persons elected to choose the president form
the elected college. In Royal there is a the electoral college. In Rome there is a

Regulated diet and frequent irrigation are essential to keep it in check

Coll Island of Scotland One of the Hebrides, it belongs to Argylishire and lies 10 m from Ardnamurchan Point It is 13 m long and covers about 25 sq m

Collie Breed of sheep-dog common Scotland and N England Light Lighter and more elegant than the old English breed with small ears whose tips fold back, it is keen-witted with snappy temper, trained to protect and herd sheep. The rouga-haired variety has a thick, soft undercoat and neck frill; the smooth-haired a short, stin, flat coat. Utilised as domestic pets, collies are often crossed with black-and-tan setters, and should average 22-24 in in height.

Collie Town of W Australia, 124 m south of Perth It is in the contre of a coal field The name is also that of a river which passes the town Pop (1931) 3446

Collier Jeremy English divine Born Sept. 23, 1650, he was educated at Ipswich and Caius College, Cambridge Ordained in 1679 he became rector of Ampton. He was twice in prison and in 1696 was outlawed He associated with non-jurors, and in 1713 was ordained as one of their bishops He died April 26 1726, supporting the Stuerts to the last. His Short View of the Immorality and Profanences of the English Stage, 1698, is his most notable work

Collier John English painter He was born in London Jan 27 1850, the second son of the 1st Lord Monkswell Educated at Eton and Heldelberg, he studied art at Munich, Paris and the Slade School, London His paintings show a keen sense of accurate detail, skill in composition and drawing, and a fine sense of colour His problem pictures attracted much attention He died in 1934

Collings Jesse English politician Born at Lympstone, Devon, in 1831, he settled in Birmingham, where in 1878 he was mayor In 1880 he became Liberal M P for Ipswich, and from 1886 to 1918 represented a Birmingham division Collings is best known for his association with Joseph Chemberlein. for his association with Joseph Chamberlain and for his advocacy of the cause of the agricultural labourer, for whom he demanded "three acres and a cow" He died in 1920 He died in 1920

Town and Collingwood Ontario It stands on Georgian Bay, 90 m from Toronto, on the CN Rlv From here steamers go to ports on Lakes Superior and Huron Pop 5900

Collingwood Baron English sailor Born in Newcastle, Sept 26, 1750, Cuthbert Collingwood saw fighting in the American War of Independence and on June 1, 1794, commanded the Barfleur against the French, and was a leader in the Battle of Cape St Vincent. As Nelson's lieutenant at Trafalzar, in the Royal Sovereign he led the second line and on Nelson's death took command of the fleet. In 1805 he was made a peer He died March 7, 1810

the electoral college. In Rome there is a college of cardinals In England a collegiate church is a church free from the authority of a bishop It is coverned by a dean canons and prebendaries Westminster Abliev and S. George's Chapel, Windsor, are examples

College of Arms Corporation of English heralds controlling matters affecting armorial bearings

Great Britain, and he became finance minister, the provisional government. As commander in chief of the Free State Army, he was conducting the war against the rebels when he was killed, Aug 22, 1922

Collins William English poet. He was born Dec 25, 1721 Educated at Winchester and Oxford, his short and de sultory life was passed chiefly in London Some of his poems are remembered, especially his Odes He was a friend of James Thomson He died of Chiefeter Lynn 12 1750 He died at Chichester, June 12, 1759

Collins William Wilkie English nove list. Born in London, Jan 8, 1824, he passed a few years in business before He then took to litera becoming a barrister ture, and became famous in 1860 with his novel The Woman in White, which first ap peared serially in Household Words Other novels were No Name, The Moonstone, The New Magdalen and Armadale Hide and Seek and The Dead Secret were less popular Collins died Sept 23 1889

Collin's father, William Collins (1788-1847), was a noted painter In 1820 he was made an R A, and he died Feb 17, 1847 His younger son Charles Allston Collins (1828-73) was a painter and a writer He married a daughter of Charles Distance that the control of the of Charles Dickons who was closely associated with his brother Wilkie

Collodion Cotton Variety of nitrocellulose soluble in ether alcohol It is prepared from purified cotton waste immersed in a com paratively weak nitric acid and sulphuric acid bath This produces pyroxylin, used for blasting gelatine, artificial silk, celluloid and photographic films

Colloid Substance in a finely divided state, intermediate between the microscopical limit of visibility and the mole cular state These limits are approximately one ten thousandth and one millionth of a millimetre respectively Sugar and salt solutions, being molecularly dispersed, pass through membranes rapidly, gelatines and other so called colloids, in coarser states of other so caned collods, in coarses states of agglomeration diffuse but slowly. This colloidal state of matter begins with cytoplasm the ultimate basis of life. Utilised for preventing floculation of lubricants and photographic films, it also prevents human milk from coagulating

Collusion Secret understanding between two or more persons to prejudice another's rights, or by bogus action to seek results otherwise unattainable Actions for divorce are dismissed if collusion is proved

Colman Name of many Irish saints The most famous was 8 Colman of Connaught, who was born about 605 and became a monk of Iona, and in 661 Bishop of Lindistarne He died at Innisboffin Mayo, on Aug 8, 676 S Colman founded many churches and monasteries

Colman George English dramatist Ho and educated at Westminster School and Christ Church, Oxford. In 1760 his first play Polly Honeycomb, appeared in London and in 1761 The Jealous Wife was produced by his friend, David Garrick Colman was manager of two London theatres, Covent Garden, 1767-74 and the Haymarket 1777-85 With Garrick he wrote The Clandestine Marriage Ho translated the Comedies of Terence He died Aug 14, 1794

Colman Ronald English film actor 1891, he entered the army in 1909 and saw service in the Creat War In 1919 he married Thelma Ray, and in 1920 he went to America and became famous and became famous Among the pieces in which he appeared are Beau Geste, Bulldog Drummond and Arrowsmith

Colmar Town of Alsace, France It is 39 m from Strasbourg Except between 1871 and 1914, when it belonged to Germany Colmar has been part of France since 1673 Before that time it was a free city There is a trade in wine and timber Pop 46,518

Colne Borough and market town of Manchester, on the L M S Rly An interesting building is the cloth hall, dating from the time when the town was a centre of the woollen industry To day the chief industry is the manufacture of cotton goods Pop (1931) 23,790

Colne Name of two English rivers One in Essex has a length of 35 m before it falls into the sea at Mersea Colchester stands on it, and it is famed for its oyster beds and its yachting

The other Colne rises near Hatfield and flows for about 35 m to the Thames at Staines Sometimes called the Coln, it divides Middle-sex from Buckinghamshire Another Coln is a small river in Gloucestershire, a tributary of the Thames

Colney Hatch District of Middlesex to the NE of the city, just outside the County of London Hore is a mental hospital maintained by the London County Council It was opened in 1851, and can accommodate 2000 patients

Cologne City and river port of Germany It stands on the Rhine, and is the third largest city in the country Its fine old buildings include the cathedral, one of the finest Gothic edifices in the world

There is also a Roman Catholic cathedral at Deutz, an historic town hall and other buildings that date from the time of the Han seatic League There are a university refounded in 1919, and several technical and other schools The city has some noble squares and parks

Cologne has many manufactures and there is a large trade along the river. It is an important railway junction. In 1918 it was occupied by British troops, who remained until 1925. Pop. 700 222

Colombes Suburb of Paris It lies to the north west of the city Races are held here and there is a stadium in which international football matches are played, and other sporting events take place

Colombia Republic of S America In it covers 447 536 sq m, and has a coastline on both the Pacific Ocean and the Caribbean Sea Bogota is the capital, other centres are Medellin Barranquilla, Cartagena, Cali, Cucuta and Bucaramanga The western part of the country is traversed by three great ranges of the Andes, and the highest point is nearly 19,000 ft The people live mainly near the coast and the interior is largely unexplored and uncultivated The chief rivers are the Magdalena and its tributary the Cauca The chief product is coffee, bananas are grown for export. Gold is worked. bananas are grown for export Gold is worked, and there are other minerals

The country is governed by a president, elected for four years, and a congress of two

Until 1819 Colombia was a Spanish possession It was then united with Venezuela and Ecuador to form a republic Later it was itself a republic called New Granada Its present name was taken in 1863 Panama was a province until separated in 1903 Pop (1928) 7,851,000 Panama

Colombo Capital and chief port of Carlon. Situated on the west coast, its fine artificial harbour encloses 660 acres of water A port of call for vessels trading with India, the Far East and Australasia, it has extensive coal and oil depots The industries are chiefly concerned with the preparing and marketing of tea and other products of the island Pop (1931) 284,155

Colon Part of the large intestine It Beginning in the lower part of the abdomen on the right side, it passes upward as the secending colon, across as the transverse colon, and drops along the left side as the descending colon It is lined with a muccus membrane Inflammation of this membrane is called colitis

Colon Seaport of the republic of Panama Situated on an island near the Caribbean entry of the Panama Canal, it is a distributing centre for imports and local produce Founded as the Atlantic terminal of the Panama Railway in 1850 its first name was Aspinwall The climate has been improved by measures taken by the United States authorities The American settlement of Cristobal adjoins it, and the pop of the two was (1930) 33,460

Colon Standard monetary unit of Salvador and Costa Rica, worth about 2s

Colonel Military title It was in general use in the French and English armies in the 17th century, if not earlier, being then given to an officer who raised his own regiment. Cromwell was at one time a colonel

To-day a colonel ranks between a majorgeneral and a lieutenant-colonel Each regiment of the British Army has a colonel-in-chief, an honorary position, sometimes filled by a member of the royal family The rank is shown by a crown and two stars

Colonial Office British Government responsible for the affairs of the colonies The colonial office came into existence in 1854 In 1925 the office of secretary for dominion affairs was created, but until 1930 the post was held by the colonial secretary. The Colonial Office is in Whitehall The secretary is assisted by a parliamentary under-secretary, a permanent secretary and a large staff of civil servants. servants

Colonisation Act of founding settlements abroad In the ancient world the great colonising races were the Phoenicians and the Greeks, who established colonies round the Mediterranean The Romans did a certain amount of colonisation

A new era in colonisation began with the discovery of America. In this movement the French, British, Dutch, Spanish and Portuguese nations took the largest part. Each founded a colonial empire, and for nearly 300 years wars about these possessions were almost incessant. France and Spain in the course of time lost their empires, and Portugal lost most of hers. The Netherlands retained a good deal, and Britain, although a valuable lost most of hers. The Netherlands retained a good deal, and Britain, although a valuable portion was lost in 1783 became the owner of the greatest colonial empire over known

In the 19th century France made up for her losses in America by acquiring a vast colonial empire in Africa where Britain added to her already extensive area Germany became a colonising power, though neither a successful nor a permanent one With the partition of Africa towards the end of the 19th century the work of colonising the yacant spaces of the earth may be said to have ended

Name of a famous Italian family One member was made Colonna pope as Martin V. in 1417 A later member, Prospero Colonna (1462-1523), was a successful soldier who fought in turn for France, Spain and the Pope Pompeo Colonna was also a soldier and in 1517 was made a cardinal, but this did not prevent him from helping Charles V. to capture and plunder Rome in

Vittoria Colonna, a daughter of the house, won fame by her poems and her friendship with Michelangelo and other noted men Left a widow in 1525, when her husband was killed at Pavin, she entered a convent and died in Rome, Feb 25, 1547

Row of pillars in archi-Colonnade Row of pillars in archi-tecture, much used in ancient times, particularly in Rome, Syria, Pompeji and elsewhere A modern example is A modern example is the colonnade projecting in front of the National Gallery, London Another is the colonnade in front of S Peter's, Rome

Colonsay Island of Scotland One of the Hebrides, it belongs to the county of Argyll It covers about 12 sq m, but is sparsely populated S Columba townsday a sparsely populated founded a college here

Colony Settlement of a state in a country outside that state's geographical Colonies are usually acquired boundaries by governments by conquest, discovery or cession The word is also used for a group of persons who live in a foreign country

British colonies are divided into crown

colonies and self-governing colonies

Colophon Concluding note in some books. It gave such details as name of author, scribe or printer, date and place of production, sometimes adding plous expressions. After the introduction of title pages it dwindled to a decorative tailpiece, or the word finis, and It has been revived by pubthen vanished lishers in modern times

Colorado Western state of the United States Bounded N by Wyoming, N.E by Nebraska, E by Kansas, S by Oklahoma and New Mexico, and W by Utah, it occupies 103,948 sq m. It is traversed by the Rocky Mts, where 180 summits exceed 12,000 ft There are 14,350,743 (1932) acres of national forests, 8,448,684 acres under crops, and 19,338,377 acres under pasture Colorado is rich in minerals and produces gold, silver, zinc, lead, coal and a great quantity of oil

It became a state in 1876 Denver is the capital and the largest town Others are Pueblo and Colorado Springs Colorado is governed by a general assembly of two houses

governed by a general assembly of two houses It sends two senators and four representatives

to Congress. Pop (1930) 1,035,791

Colorado River of N America. the Green and Grand rivers, rising in Wyoming and Colorado respectively, and illustration the loss through the arid plateau between the Rocky Mts

and the Sierra Nevada before falling into the Gulf of California It is 2,200 m long and is famous for the caffons or gorges in its course These have a total length of 1000 m, the chief being the Grand Cafton in Arizona

Colorado Beetle Potato pest. The beetle, leptino larsa decembrata, now general in the US, completely destroyed potato and other solana cours crops until controlled by poisonous powders (containing paris green) dusted or sprayed on the foliage

Colosseum Amphitheatre in Rome It was finished in AD 80 and held about 50,000 people. Its length was 600 ft. and its width 500 ft., the arena was 285 ft. by 185. The building was used for pladiatorial and other shows, and in it many Christians were martyrod. Considerable re Christians were martyred mains still stand

Colossians Epistle to the Twelfth ment. It bears evidence of having been written Twelfth by the Apostle Paul during his captivity in Rome about A D 62, and addressed to the citizens of Colossac, a once flourishing city in Asia Minor

Colossus Statue, especially of gigantic or colossal proportions Colossus of Rhodes, overthrown by carthquake about 224 BC, was one of the Seven Wonders of the World Nero erected in his Golden House a colossus of himself which Hadrian afterwards removed to the Colosseum. The Colossi of Memnon at Thebes are two seated sandstone statues, 70 ft. high, of Amenhotep III

Colour Sensation or class of sensations optic nerve This is offected normally by light rays emanating from luminous bodies or reflected from non luminous bodies. These light rays, varying in wavelength, furnish in combination the white colour of sunlight, which is resolvable through a prism into the rainbow band from violet to red, bounded by rambow band from violet to red, counted by ultra violet, such as X rays, and infra red or heat rays An object's perceived colour depends upon its power of absorbing some light waves and reflecting the rest. If it absorbs none or nearly none, it appears white, if all, or nearly all, black, if all except the red, red and so on

clours Flags or standards of a regiment. In the British Army at one time these were carried into battle, usually by an ansign and formed a rallying point. The last ensign, and formed a rallying point. The last notable appearance of colours in battle was in the Zulu War of 1879 Each regiment has two colours, the king's and the regimental, the latter recording the honours Regimental colours of the past may be seen in cathedrals and churches, c.g, at Winchester

Colours In sports the cap and blazer worn by those who have re presented their college or school at a certain sport. At the older universities blues are the equivalent of colours elsewhere In horse racing each owner has his colours, which are registered and worn by his jockey Similarly there are distinguishing colours at greyhound Similarly 7.8.CC8

English merchant. Colston Edward English merchant.
Born at Bristol Nov 2, 1636, he hecame wealthy through trading with the W lndies In 1710-13 he was M P for Bristol He died at Mortlake, Oct. 11, 1721 Colston was the lost many to build schools and Edward Indies In 1710-13 he was MP for Bristol Aug 3, 1492, and on Oct 12 he sighted the He died at Mortlake, Oct. 11, 1721 Colston Bahamas He landed there and then went on gave a great deal of money to build schools and to Cuba and Haiti, after which, having

almshouses and for church purposes Th Colston Hall, Bristol, was built in his honour

Coltsfoot Tussilago farfara Herb of the composite order It is native to Britain, Europe, W Asia and N Africa. Its yellow heads appear before the leaves, which are densely covered beneath with hair The leaves are smoked for asthma and yield an extract used as a cough remedy, as in coltatoot rock

Columba Lish saint Born in Donegal, monk He settled in Iona and from his religious house there monks were sent out to convert Scotland and the N of England to Christianity Columba died June 9, 597 He was canonised and his feast is kept on June 9

Columbarium Sepulchral chamber rows of wall niches for preserving cinorary urns Their use has been revived since the reintroduction of cremation

Columbia District containing Washing ton, capital of the United States of America Situated 40 m S W of Baltimore, it occupies 62 sq m of land and 7, sq m of water surface, mostly on the N E side of the Potomac River at the head of tidal navigation Washington city covers one fifth of the land, including the river port city of Georgetown, now W Washington, and several suburbs and villages 540,000 Pop Washington

Columbia is also the name of the great university of New York It dates from 1754 and has now about (1932) 25,866 students

Columbia River of N America. Rising in the Rocky Mts in British Columbia, it soon crosses into the United States flows through the State of Washington and forms the northern boundary of Oregon before falling into the Pacific Its length is about 1400 m The Columbia is famous for its salmon

Columbia is the name of the capital of S Carolina It is on the Congarco River, 130 m from Charleston, and is a manufacturing centre Pop 39.500

Columbine (Aquilegia vulgaris) Por ennial herb of the buttercup order Native to N temperate regions, its stem bears finely divided leaves and panicles of flowers, with five petaloid sepals and five short spurred, blue or purplish white petals. These have been developed by hybridisation into bandsome, long spurred, vari-coloured garden invourites

Traditional female charac Columbine Traditional formule character in Italian and English pantomime comedy Columbine, the graceful dancer, is the daughter of Pantaloon and courted by Clown and Harloquin. She returns Harloquin's love and the wiles and pathetic tales by which she keeps his truant affections form the basis of some pretty byplay

Columbus Christopher Discoverer of America Born in Genon about 1451, he went to Portugal, married a lady of rank and conceived the idea of a voyage to the west. The kings of Fngland and France declined to help, in Spain, however hordnand and Isabella alded him to fit out an expedition an expedition

With 88 men in three ships he left Palos on

lost one of his three ships, he returned to Spain Columbus made three other voyages to America In 1493 he took 1500 men to the W Indies, in 1498 he landed in S America, but was fetched home in disgrace, and in 1503 he was in Central America and the W Indies, where Spanish settlements had been made Columbus died at Valladolid, May 25, 1506, and his remains were taken first to San Domlingo and thence to Havana, whence, in 1898, they are believed to have been removed to Seville

Column In architecture an upright body designed to support another Usually a shalt, resting on a base and surmounted by a capital, it may bear a statue or

a memorial

There are some fine modern columns in London, Parls and other cities In London there are the Duke of York's Column in Water-loo Place, and the Nelson Column in Trafalgar Square, in Paris Napoleon's, in the Place Vendome, and the July Column in the Place do la Bastille

Colwall Village of Herefordshire It is 3 m from Ledbury, on the G W Rly Races are held at Colwall Park Pop

2000

Colwick Village of Nottinghamshire On the Trent, it is 2 m from Nottingham The hall, once the home of Byron's Mary Chaworth, is now an hotel and races are held in its grounds The church has some interesting tombs The village gives its name to a kind of choese Pop 1100

Colwyn Bay Wotering place of N Wales On the coast of Denblghshire, it is 220 m from London, on the LMS Rly With Old Colwyn, which lies in the coast of the coast of Denblghshire, it forms an urban district. Pop (1931) 20,885

Colza Variety of golden-yellow, semicrushed seeds of a cruciferous plant allied to the swede, which is extensively cultivated for that purpose in parts of Europe It is a well-marked commercial variety of the class known as rape oils, and is now an important lubricant The cake, left after the oil has been expressed, is a nutritious cattle food

Coma Condition of profound stuper from which the sufferer cannot be coma which the sufferer cannot be effectively roused Stertorous breathing and strong heart action may be present. Primary coma is usually caused by apoplexy, concussion or other head injury, and alcoholic or narcotic poisoning Secondary coma, induced by diabetes, uraemia, meningitis and other diseases, is often fatal

Combination Acting together The combination laws were Acts of Parliament passed in 1799 and 1800 to make trade unionism illegal Their provisions included imprisonment for any working man who combined with another to obtain higher wages or shorter hours. Owing to the offorts of Francis Place the laws were repealed in 1824 Combination is now allowed, although it is illegal if against public policy. It takes the form of trade unions among the employed and of combines among the employers TRADE UNION.

marked since the Great War lower working costs and to organiso large selling plans In the United States, where they are known as trusts, legislation has been

passed against them

A COMBINE is a union of business firms The tendency to form combines has been very They tend to

Combustion Process of burning material substances It comprises essentially exidation of the sub stances, by combination with atmospheric oxygen, accompanied by heat The rapidity of the combustion is governed by the rate of oxidation, rusting of iron proceeds so slowly that the heat evolved is imperceptible. When When substances such as greasy rags, slowly oxidising, reach the temperature of their ignition point the resultant combustion is called spontaneous

Comedy Type of drama It originated in the festivals of Greece The first great comedies were those of Aristophanes. To Dante, the word meant a great drama dealing with life and death Balzac later used

it in much the same sense In the 17th and 18th centuries came the comedy of manners, of which Molière was the greatest exponent, represented in England by the works of Congreve and Sheridan To-day a comedy is little more than a farce, or burlesque; when accompanied by music it is called a musical comedy. A comedian is an

actor who plays humorous parts

Comenius Johann Amos Moravian theologian, philologist and educational reformer He was born in Bohemia March 28, 1592 Expelled from Bohemia he settled at Lissa Poland, where he became bishop His most famous works are the little treatise Janua Linguarum Reserata (The Gate of Languages Unlocked), which was completed by Orbis Sensualium Pictus, a kind of encyclopædia in which the words are accompanied by explanatory pictures He died in Amsterdam, Nov 15, 1670

Comet Earliest British passenger steam-ship Built by Henry Bell (1767-1830) at Greenock in 1811, it plied between Glasgow and Greenock thrice weekly between 1812 and 1820 It was a paddle steamer 42 ft. long, equipped with a 3 horse-power engine

Comet Luminous celestial body moving about the sun Bright comets contain a nucleus, an enveloping haze or coma. and usually a tall of luminous matter, so tenuous that stars seen through it lose no tenious that stars seen through it lose no buillancy. Some comets move in elliptical orbits and return at calculable intervals, ranging from the 3½ years of Encke's to the 76 years of Hallev's, others, moving parabolically, may never return. Bicla's, with a 6½-year period, has disappeared since 1852

Comfrey Genus of rough, erect, tuberous-rooted perennial herbs of the borage order They are native to Europe and W Asia The common British comfrey (S officinale) has been naturalised in N America, the other (S tuberosum) is cultivated ornamentally

Comines Philippe de French historian. He was born about 1417, and held a high position under Louis XII He died at Argenton Oct. 18, 1511

Comines is famous as the author of some

Mémoires a good and reliable account of the history of France under Louis XI, and to a lesser extent under Charles VIII They have been translated into English.

Commandant Military officer in charge of a school, base or fort The word is used also for the woman at the head of organisations of women auxiliary to the forces, such as the V A D

Commander British naval officer.

commander and junior to a captain, he may command small vessels or be an executive officer under the captain on large vessels. His sleeve badge is three bands, the uppermost looped Commanders of the navy and wing commanders of the RAF rank with lieutenant-

colonels in the army
In the Royal Victorian Order the third class is commander (OVO) and the second-class knight commander (ECVO) There are also commanders, knights-commander and dames commander in the Order of the British Empire In the Orders of the Bath, S Michael and S George and the Star of India there are knights commander The caliph was called the commander of the faithful

Commander-in-Chief Officer British and other armies For many years Great Britain had a permanent commander in chief, but now one is only appointed in time of war India has still a commander in chief During the Great War there was a commander in chief for each theatre, Sir John French and then Sir Douglas Haig filling this post on the Western Front, and Sir Ian Hamilton, Sir Stanley Maude and others elsewhere

Commentary Collection of memo randa They were made in Rome for historical material or records, Caesar's Commentaries being an example Nowadays the term denotes a systematic work, comprising annotations and elucidations of great literature. There are numerous com mentaries on the books of the Bible

Commerce commodities Trade or interchange of In certain countries there is a Ministry of Commerce, in Great Britain the Board of Trade Degrees in commerce are given at London, Birmingham and other universities
CHAMBERS OF COMMERCE are unofficial

bodies found in every large town They exist

for the promotion of trade interests

Commissariat Section of a military force, whose function is to arrange the provision of supplies of food In Britain the commissariat is the Royal Army Service Corps

Commission or trust upon a person Act of placing a charge It also describes the charge entrusted, and the

document setting forth the authority

A body of persons appointed to act for
another person or body is called a commission Such are the royal commissions appointed to report to the king upon a certain matter. The scope of their inquiry is laid down in the terms of reference Other commissions are scope of their inquiry is that down in the terms of reference Other commissions are permanent bodies set up by Parliament, such as the Development, Charity and other commissions

The percentage on sales or purchases by which an agent in commerce is often remunerated is also called a commission

The magistrates of the countles and boroughs of England, who are appointed by a commission from the king, are known collectively as the commission of the peace

A commission of array was a method adopted in England in the 13th century and later for raising soldiers The king gave a commission to a man to raise a certain number of men in a certain area.

Commission Authority by which an officer of the navy, army or air force holds his position Commissions are granted by the King, through the Secretary of

State or other official, to qualified persons. All the higher officers of the services are collimissioned officers

At one time commissions were bought, but since 1870 they have been given to those who have succeeded in a competitive examina-tion. The successful candidates then pass a period in study at Dartmouth and Greenwich for the navy, Sandhurst and Woolwich for the army and Cranwell for the air force the army and Cranwell for the air force They are then commissioned to a ship, regiment, battery or other unit

Commissionaire Attendant at the entrance of public buildings, offices, etc In England they usually wear a uniform Many are drawn from the Corps of Commissionaires, established by Sir Edward Walter in 1859 They are men who have served with credit in the navy, army or air force and the strength of the corps is about 500 Its headquarters are at 419a Strand, London, W C

Ommissioner Member of a commission from the King The First of a commission from the King The First Commissioner of Works is a member of the government Special commissioners of income tax are persons who decide questions relating

to the tax

In law a commissioner for oaths is a solicitor before whom one can take an oath A com missioner of assize is a barrister who tem porarily takes the place of a judge on circuit The head of the Metropolitan Police is called a commissioner The representatives of Australia, Canada the Irish Free State and the other Dominions in London are called high commissioners

Commitment In English law a written document for the con veyance of a person to a place of custody, and for his detention there for a definite period or until he complies with an order, e.g., payment of a fine. It is usually issued after the summoning or appearance of the person named at court to answer a charge

Commodore Temporary rank in the British Navy It is given to an officer holding a position somewhat in advance of his actual rank There are two classes, first and second

Air Commodore is the title of a high officer in the Royal Air Force

Commodus Lucius. Roman emperor Born Aug 31, 161 a son of Marcus Aurellus, he patched up peace with the German tribes He reigned as a tyrant and gave himself up to gladiatorial displays and debaucheries, and was strangled by favourites in 192

Commoner Term denoting (1) Any person not a peer, (2) Any member of the House of Commons—the elder Pitt was called the Great Commoner, (3) Any student at Oxford or Cambridge not being a scholar or exhibitioner, (4) Any person with joint rights in common land

Common Good In Scotland, property burgh In some cases it produces a large annual income which can be applied to purposes other than those for which the rates are levied

Common Law Law common to the whole of the kingdom as distinct from specialised branches such as statute law or mercantile law Many of its rules

Common Pleas Court of Old English law court. 014 Owing to the increase in the number of pleas in the reign of Henry II, five justices were appointed to hear the pleas of the people Under the Magna Carta the court was fixed permanently at Westminster Under the fudicature Act, 1873, its functions were transferred to the King's Bench Division of the High Court.

Commons In Great Britain land that is owned by the public In early times common land was attached to a village or manor on which the villagers had the right to put animals to graze There are relics of these rights in various places to-day. The lords of the manor enclosed a great deal of common land in the 15th and 16th centuries. from the beginning of the 18th century much was enclosed by Acts of Parliament. At first, each Act dealt with a single enclosure, but after a time, general enclosure Acts were passed It has been estimated that 5,000,000 acres of common land were enclosed or converted into private property until 1860 In 1866 enclosures were forbidden in the London area, and in 1876 elsewhere To day commons are looked after by the local authorities The Commons and Footpaths Preservation Society exists to protect the rights of the public in this matter, The offices are at 71 Eccleston Square, London, 8 W 1

Commons House of In Great Britain and Canada the name given In Great Britain to the House of Parliament elected directly by the people In England the House began in the 14th century when the representatives of the counties and boroughs soparated themselves from the lords, and were called the commons They had little power at first, but gradually asserted themselves Their present power is due mainly to their control of finance, finally established by the Parliament Act of 1911 For practical purposes the House of Commons is omnipotent in legislation In Canada the Senate is more of a check than is the House of Lords in England

The number of members in the English House of Commons was at one time 670, but since the establishment of the Irish Free State it has been 615 Women have been eligible for members, Wales 36 Scotland 74, and N Ireland 13 London sends 62 members and 12 are sent by the universities The President of the House is the Speaker, his deputy is the Chairman of Committees. The control of business is in the hands of the Prime Minister and his assistants Ministers and their followers sit on the Speaker's right, members of the Opposition on his left The Canadlan House of Commons consists of 245 members and its procedure is modelled on that of the British house

Commonwealth form used to a a democratic form of government In England, the period between the execution of Charles I and Charles II's restoration was called the Commonwealth The term still officially designates Massachusetts Pennsylvania, Virginia and Kentucky In 1900 the Commonwealth of Australia was formed by federation

British Commonwealth of Nations is a current term used in preference to British Empire The Commonwealth Fund is an American negaction due to Mrs S V Harkness By benefaction due to Mrs S

have been established by ancient usage and it British students can spend two years at depend on precedent American universities There are 38 fellowships, each worth £600 a year

Commune Word meaning much the corporation In France to-day the commune is an administrative district, with a council clected by all adults and presided over by a mayor There are communes of the same kind in Italy and Belgium

The Commune of Paris has on two occasions played an important part in national affairs In 1791-92 its action led to some of the great events of the French Revolution, in 1871, after the Germans left Paris, a commune was proclaimed and civil war broke out

Communion Holy Participation in the sacrament of the Lord's Supper (1 Cor x) In the Roman Catholic Church it takes the form of the Mass Roman In the High Church section of the Church of England it is called the Eucharist. High Churchmen, like Roman Catholics, believe Churchmen, like Roman Catholics, be in the doctrine of the real presence (q r)Lutherans, Nonconformists and conc. Christians, the taking of the communion is other symbolic only

In its more general aspects Communism ommunism is a social-economic theory deriving from the teaching of Karl Marx, its doctrinal basis the Communist Manifesto written by Marx in 1847, and its ultimate alm a completely classless society in which the principle of "from each according to his abilities, to each according to his needs" will be consistently applied

Modern Communism gained great political importance as the creed of the governing party which obtained power under the leadership of Lenin (q v ) in the second phase of the Russian Revolution (Oct, 1917) It was constituted a world movement by the establishment of the Third (or Communist) International in 1919, and national Communist parties have been formed in most of the countries of the world

There is a Communist Party in Great Britain, with an organisation at 16 King St Covent Garden, London, WC 2 It holds an annual congress and at the general election of 1931 its candidates secured 75,000 votes

Commutation Process of exchanging one thing for another Its most common use is for the payment of a sum of money to discharge a recurring obligation Thus, a person who owns land subject to the old Land Tax can commute it by making a single payment Sometimes the State, instead of paying a pension indefinitely pays a sum of money to close its liability

Commutator Device in a dynamo by which an alternating current is converted into a continuous one

Como Lake and city of Italy The lake, about 30 m from Milan, is 31 m long and covers 56 sq m The Adigo flows through it. Its surroundings make it a region of unusual beauty and a popular pleasure resort

The city of Como stands at the south end of the lake. The chief industry is silk manufacture and it is a tourist centre. Pop 48 699

Comorin Cape The extreme southern omorin. COMOTIA point of India, in the state of Travancore It is low and sandy and has the village of Comorin at the apex of the headland,

where the temple of Kanniyambal, the "virgin coddess" receives many pilerims

Comoro Group of islands belonging to
France. To the NE of Madagascar, they cover about 750 sq m and are mountainous. The chief products are sugar, vanilla and copra Pop 119,305

Companion of Honour British order Instituted in 1917, it is limited to 50 mem bers, and is conferred for conspicuous national bers, and is conforred for conspicuous national service Companions use CH after their names. The badge, a plaque with mounted knight, and an oak tree supporting the Royal Arms, centres an enamelled blue oval bearing the motto. "In action faithful and in honour clear." affixed to a crown suspended on a goldedged carmine ribbon

Company Association of persons for trading Trading companies existed in England in Elizabethan times, and some became chartered companies. The E. India Co. was a company of this kind.

An Act of 1862 allowed a body of traders to

form themselves into a company with limited liability In 1908 the law was consolidated, and a new class of company created These are private companies enjoying the protection of the limited liability system but they cannot the limited liability system but they cannot offer their shares to the public nor can they have more than 50 shareholders In 1928 a new Companies Act provided, among other things, that directors must give more informa-tion to shareholders in the balance sheets

Company Word in very general use for an association of any kind. A body of actors is called a company, and the crew of a vessel is the ships company. In the British infantry, the battalions are divided into companies

Compass Mathematical instrument for describing circles and for monsuring distances

In music, the term compass is applied to the range of notes from the lowest to the highest,

that can be produced by a voice or instrument
MARINER'S COMPASS This consists essentially of a magnetic needle mounted upon a
plyot over a card having the cardinal points
marled upon it The British Navy has a
compass department at Dilton Park, Langley, Bucks

Compass Plant Popular name of two distinct composite plants growing on N American prairies Their lower leaves, standing vertically, tend to grow with edges set north to south, the sides catching the morning and evening sun. The native rosinweed (Silphum lacunatum) first received the name Lactuca scarrola allied to the catching the morning and evening sun. the cultivated lettuce, was introduced later

Compensation Reparation for loss or pensation must be paid if property is damaged by riot. Tenants of agricultural property are entitled on leaving to compensation for any improvements made by them and since 1927 tonants of business premises have had a similar right. If property is taken by a railway compensation of the property is taken by a railway compensation of the property is taken by a railway compensation. pany or a local authority, compensation must be paid and it can also be obtained if a man's business is damaged in this way

Compensation can be obtained also if a person or his property is injured while travelling in a public vehicle A considerable body of law deals with compensation to workmen injured in the course of their employment. See WORKNEY & COMPLASATION

The Compensation Fund is a fund raised from the owners of public house licences It is used to compensate those whose licences are taken away, except in cases of misconduct.

Competition Act of striving for some thing which another simultaneously seeks

In the domain of economics it is the pre valent method employed for stimulating production and adjusting the operation of the forces of supply and demand, locally or inter-nationally Unfettered competition is restricted by the varying measures of self protection adopted by states by factory legislation or wage regulation, by industrial combinations and rules and by international trusts

Compregne Town of France It stands on the Oise, 52 m from Paris The chief buildings are the 18th century palace two old churches, S Antoine and S Jacques and a 16th century hotel de ville Pop 17,852

Near the town is the forest of Complègne which covers nearly 60 sq m On Sept 1, 1914, during the Retreat from Mons there was some fighting here between the British and the Germans

Complement What is needed for completion It may be the angle needed to complete a right angle, eg, 60 deg complements 30 deg, the colour needed to obtain white light, eg, orange complements blue. The complement of a ship is its crew

Compline Last of the canonical hours, nine o clock Introduced in early monastic foundations, it is retained in the Roman Catholic Church, usually combined with vespors It is sometimes used in the Church of England and in 1931 the Archbishop of York suggested it should have a regular place in a revised time table for public worship

Composition Word meaning to put together It may be a piece of music or an essay In graphic art it is the balance and arrangement of parts of a picture. In law it refers to an arrangement made by an insolvent person with his creditors He compounds, or makes a composition to pay them a certain sum in the & It is illegal for a debtor to make a composition with some of his creditors only

Compost Mixture of materials designed to enrich the soil Mineral vegetable and animal ingredients are used in varying proportions, such as peat, dung, fish, fibrous loam, leaf sweepings, coarse river sand, road drift stable refuse, lime and wood ashes

Compound Substance produced by the chemical combination in definite proportions of two or more elements Compounds are identified by formulae disclosing their compositions Thus H<sub>1</sub>O, symbolising the compound water, states that each molecule contains two atoms of hydrogen and one of oxygen Compounds acquire their own identity and properties, and are thereby distinguished from mechanical mixtures

Compounding Making an agreement. Legally to compound felony, i.e., to refrain from prosecuting a person for an offence in return for a sum of money is an offence against the law Another kind is legal. This is an arrangement by which had believed and not the tennet may the rates the landlord, and not the tenant pays the rates on property

compressed Air Air mechanically reduced in bulk at a pressure exceeding that of atmospheric air, to which the relaxation of the extra pressure restores it The expanding air is utilised in

operating mining drills, lifts, pumps, railway without success. The Red Comyn was killed brakes, torpedoes, and hammers. Pneumatic by Robert Bruce in 1306 at Dumfries tubes transmitting postal and other matter combine compressed air release with exhaustion. Concerto form for a solo instrument.

Compressibility Quality of being reducible in bulk Inversely proportionate to the pressure, it is sometimes measured by the unit of atmospheric pressure, 147 lb per sq in It varies in different substances, gaseous, liquid or solid

Compton Edward English actor Born in London, Jan 14, 1854, in 1881 he organised the Compton Comedy Co, and was a leading member of his profession for many years He died July 16 1918 Compton's children included the actresses Fay and Nell Compton, and the novelist who took the name of Compton Mackenzie.

Compton Was born at Compton Wynyrtes, Warwickshire in 1632 At first a soldier, he was ordained in 1662 In 1674 he was made Bishop of Oxford and in 1675 Bishop of London

In 1686, James II suspended him Compton was one of those who invited the Prince of Orange to take the throne and he crowned William and Mary in Westminster Abbey He remained Bishop of London until his death at Fulham, July 7, 1713

Compton Wynyates Residence Marquess of Northampton It is near Kineton, marquees of Normanpion at is near kineton, in Warwickshire and one of the most perfect specimens of Tudor domestic architecture Built about 1529 it is notable for its tower, chapel, panelled great hall, secret staircases, priest's room, and gardens

Comptroller Variant of controller It is borne by the comptroller and auditor general who is responsible for seeing that all payments made by the Treasury have been authorised by Parliament. He cannot be dismissed except by Parliament. His office is on Victoria Embankment, London,

EC
There is a Comptroller of the Royal Household, a political office held by a member of the covernment

Compurgator Name given in England in Anglo Saxon times and later to a man who swore that another was innocent of a crime A man could clear himself if he could get a certain number of his neigh-bours to swear to his innocence. These were the computerators

Comrie Village of Perthshire A tourist resort, it is 7 m from Crieff, on the Las Riv Pop 2200

Comte Isidore Auguste Marie François Xavier French philosopher Born at Montpellier Jan 19, 1798, he was educated there and in Paris He came under the influence of S Simon, and in 1830 published the first volume of his Cours de Philosophie Positive His life was embittered by poverty and quarrels with friends He died Sept 5, 1857 Sec Positivism

omyn Scottish family It took its name from Comines in Belgium and one its members crossed to England with

Concerto Musical composition in sonata form for a solo instrument with orchestral accompaniment. In the 17th century concerto often meant sonata as Bach's Italian Concerto Corelli, in 1686 introduced the secular concerto for concert use

Conchology Study of the shells of molluses The acquisition and arrangement of shells as objects of interest and beauty preceded systematic study. The shapes of shells are enhanced in importance and interest when compared with those of fossil forms

Conciliation Method employed for settling industrial disputes In 1896 an Act established a system of councils for this purpose, consisting of em-ployers, employed and neutrals To-day there is a principal conciliation officer at the Ministry of Labour and there is an Industrial Court at 5 Old Palace Yard, London, S W 1

Conclave Locked room, or the assembly of persons within it. Specifically the word denotes the secret meeting of Roman Catholic cardinals to elect a Pope In the 13th century the civil magistrates confined the electors until a choice was made In 1928 it was decided to build a palace in the Vatican for conclaves

Concord Township of Massachusetts Situated 17 m N W of Boston, it was the scene of a skirmish, April 17, 1775, between British and provincial troops, which inaugurated the American War of Independence It was the birthplace of Thoreau, and has associations with Emerson Among the picturesque old houses still standing are some associated with Hawthorne and hi-writings Pop (1930) 7.477

Another Concord is the capital of New Hampshire, and a railway centre Pop 23,000

Concordance Classified arrangement usually alphabetical, of the words in a book, with citation of, and reference to, relevant passages. The carliest English concordance of the New Testament was Gybson's, 1535 Complete English Bible con-cordances include Marbeck's, 1550, Cruden's 1737, and Young's, 1879

Concordat Formal compact between Church and State, specifically between the See of Rome and temporal sovereignties for the regulation of ecclesiastical affairs After the Papal States were incorporated with the Italian Kingdom in 1870 the Pope lost all temporal jurisdiction until a concordat created the Vatican city in 1929

Concrete Constructional material broken brick, stone, mixed with sand and a cementing agent in definite proportions in water It furnishes when set, a durable, strong artificial stone Used in Rome and mediaeval Europe the invention of Portland cement enhanced its Importance

Concrete comprises a matrix, sometimes lime William the Conqueror For some 200 years the Comyns were powerful and prominent. William Comyns were powerful and prominent. William Comyn was Chancellor of Scotland in 1133, and in the 12th century the Comyns were earls of Buchan, Athole, Angus and Monteith The Black Comyn was one of the regents of Scotland is sometimes dumped for dock or bridge in 1285 and in 1290 claimed the throne, but but usually Portland cement, together with sand

Concubinage Cohabitation without electrical wiring systems in buildings, and accommodate underground gas and hydraulic unions, recognised among the Jews and other Semitic peoples, for relieving barren marriages, were also recognised in Greece and Rome, but conferred no legitimacy on the children.

Concussion After a severe blow or fall, a dazed appearance loss of memory or speech or unconsciousness may occur Keep the patient perfectly still and quiet, in bed if possible in a derk room Beyond keeping him warm, do nothing, but procure medical aid as soon as possible Do not give stimulants

Town of France Near the Belgian frontier where the Haine londé fails into the Schelde, it is a coal mining centre There was fighting here in the early days of the Great War See Mons

Condé gave its name to a famous family, a branca of the Bourbons Louis de Bourbon was made Prince of Condé before his death wao was made Prince of Condé before his death in 1569, belonced to the same family as King Henry IV and like him was a Huguenot His grandson Louis, called the Great Condé, born Sept. 8, 1621, was a great soldier After winning several victories over the Spaniards, he became a rebel against his king He then entered the Spanish service, but returned to France in time to lead her armies against William III He died Sept 11, 1636 The last Prince of Condé, Louis Henry Joseph, committed suicide Aug 27, 1830

Condenser Appliance for concentrating matter The exhaust steam of steam engines condenses in water cooled or air-cooled coils In cotton ginning, condensers compress lint for handling in woollen manufacture they condense roll-carded that the clubbles. In augus modeling condenses fibre into slubbing In sugar making condensers propers clarified juice for vacuum pans, in electricity they accumulate the product of two conducting surfaces, as in Leyden jars

Condor American vulture (Sarcorhampus gryphus) Among the largest birds of flight, spanning 10 ft or more, it has black plumage with white round the neck it is found in the Andes

Condottieri leaders of merconary military companies, often applied to the soldlers also in the 14th contury an English man Sir John Hawkwood, was a leader of condottieri in Italy

Conduction Transmission of heat from points of high temperature to points of low temperature, or of electricity from points of high potential to points of low potential, without sensible movement in inter

mediate particles

Conductor Leader or director of a cnoir leaders in the 16th century used a roll of maper called a sol fa, or a baton when con ducting In later years the conductor was seated at the harpsichord and combined with the leading violinist to set the time and co ordinate the vocal and instrumental per-formers In 1820 Spohr inaugurated the modern practice whereby the conductor faces the musicians beating time and controlling the performance with the baton or by hand famous conductors include Sir C Hallé, Sir F Cowen, Dame Ethel Smyth, Malcolm Sargent, Sir Henry Wood, and Toscanini the leading violinist to set the time and co ordinate the vocal and instrumental per-

mains, telegraph, telephone, light or power cables Sub trolly conduits enclose the con ductors of sub trolly electric railways

Coney Island Pleasure resort of New York. It is 5 m long and lies off the shore of Long Island Part of the borough of Brooklyn, it is reached by rail way and steamer There are three beaches way and steamer There are three beaches W Brighton Brighton and Manhattan W Brighton is perhaps the most popular pleasure resort in the world.

Confectioner One who makes or sells sweetmeats, pastries and other preparations whose fundamental ingredient is sugar. Till the 18th century, druggists monopolised such preparations Later separate industries developed in England All are subject to the Sale of Food and Drugs Acts, and the industry supports four trade journals in London

Confederation Alliance of states for defined common pur poses Theoretically it is distinct from federa tion as it emphasises individual independence The United States passed from confederation to federation in 1789 To day there are federa-tions, such as the United States, Germany and Australia, but strictly speaking no confedera-

Confessio Tomb of an early Christian confessor or martyr Sometimes an alter surmounted the grave, the name including both and also the subterranean crypt The sacred relics, if removed to another place, were deposited in a confessio beneath the high altar This occurred at S Peter's, Rome, whose high altar stands over the saint's tomb

Confession Disclosure of sin in the ear of a priest in order to Auricular confession pre receive absolution Auricular combession prevails in the Roman Catholic and Greek Churches It became obligatory once a year at least after the fourth Lateran Council in 1215. The Council of Trent declared it essential The Protestant churches reject confession but the Anglo Catholic party in the Church of England favour it The apartment occupied by the priest when hearing confessions is called the confessional.

A confession of faith is a statement of belief or creed Such are the Westminster Confession and the Confession of Augsburg In law a confession is a statement by an

incriminated person acknowledging guilt, directly or indirectly. If elicited through threat or inducement by a person in authority such statements are not admissible as evidence

Confirmation Religious ceremony ad ministered by a bishop in Episcopal and Lutheran churches after due instruction In the Roman Catholic Church it ranks as a sacrament. In the Anglican churches confirmation is a fulfilment of the baptismal vows and a necessary preliminary to partaking of the sacrament. The form of service is prescribed in the Prayer Book

Confucianism System of teaching based on ancient Chinese classics These were edited or trans mitted by K'ung fu tze, 551 478 B C., whose name was Latinised by Jesuit missionaries as Confucius On the religious side it perpetuates and tonal applications and approximately applications. Conduit Channel for flowing fluids Water national animism and ancestor worship The classics include also the Confucian Analects summarising the master's sayings and the con

versations of his greatest interpreter, Mang tze (Mencius), 372-289 B C

(Mencius), 372-289 B C
In the 1st century A D Buddhism and Taoism rivalled Confucian teaching, which nevertheless secured state recognition. The republic abandoned the traditional relation of the emperor to heaven in 1912, and Confucianism is now but one of the cults tolerated in China and the appropriate of this faith is The number of adherents of this faith is estimated at 350,000,000

Conger Edible marine fish of the eel less vide-mouthed with close set cutting teeth, and continuous dorsal fins, greyish-white below and pale-brown above It sometimes exceeds 8 ft. in length and 100 lb in weight It is found in British waters, in the Mediterranean and in the seas around Australia and Incomand in the seas around Australia and Japan

Congleton Borough and market town of Cheshire It stands on the Dane 158 m from London and is served by the L MS Riv and a canal It is an industrial and agricultural centre Pop (1931) 12,885

Conglomerate Rock formed of water worn pebbles It is consolidated into pudding stone with sand clay or a calcareous siliceous or ferruginous cement. The enclosed pebbles vary from inches up to 20 ft. across

Congo Belgian Colony in Central Africa It occupies a good part of the basin of the Congo River The area is 918,000 sq m Leopoldville is the capital and the colony is under a Governor General who also administers Ruanda and Urundi, which are mandated territories The colony has railway connection with Capetown, Beirn and Benguela Its mineral wealth, especially copper, is large The agricultural products are palm oil, cotton and cacao A nature reserve, the Albert Park, has been established Pop 8,903,263

River of Central Africa Congo River of Central Africa It rises in British territory between Lakes Tanganyika and Nyasa, and feeds Lakes Bangweulu and Mweru Emerging thence as the Lualaba and crossing the Belgian Congo Highlands to Nyangwe, it traverses, as the Congo, the great equitorial forest region, receiving the Ubungi Kasai and other streams Long navigable stretches such as Stanley Falls to Leopoldsville, 1068 m, are separated by impassable rapids. Ocean going vessels Congo by impassible rapids. Ocean going vessels can ascend 86 m to Matadi The river's total length is 3000 m and it drains 1,425,000 sq m

Congregationalism Protestant re-ligious body It originated in England about 1550, when certain communities claimed to worship under their own minutes. their own ministers, independent of ecclesias-tical authority Larly in the 17th century, owing to persecution, some of them field to the Netherlands, and from there a party went to

North America.

In England in 1662 the Act of Uniformity ejected many clergymen from the established church and a number of these became ministers of independent congregations. In the 19th century these began to draw together and became known as Congregationalists. In 1832 the Congregational Union of England and Wales the Congregational Union of England and Wales was founded; later, unions were formed elsewhere in 1875 the Memorial Hall in Farring-don Street, London, EC was opened as their bandquarters. Their foreign mission work found expression in the London Missionary Society.

CONNAUGHT four provinces of Ireland It consists of five counties in the west—Galwar Mayo, Sligo, Leitrim and Roscommon—and headquarters. Their foreign mission work found expression in the London Missionary Society.

The denomination has training colleges forministers in London, at Oxford (Mansfield College), Nottingham, Cambridge (Cheshunt College), Manchester, Bristol, Edinburgh and elsewhere

Congress Chief legislative body of the United States and other countries In the United States it consists of two houses sitting at Washington, the House of Representatives, which consists of 435 members aleeted by the states according to according to Representatives, which consists of 455 members elected by the states according to population, and the Senate of 96 members two from each state. The two houses sit separately, but the consent of both is necessary to legislation. Senators are elected for six years and representatives for two. Ministers are not members of Congress and its legislation may be pronounced invalid by the Supreme Court. The president can veto its legislation, but Congress can overcome this by passing the vetoed measure again by a two-thirds majority. The measure again by a two-thirds majority The library of Congress is one of the largest in the morld

Congress Meeting or assembly It has been used since the 17th century for meetings of the representatives of different countries, chiefly when peace treaties were discussed. Important congresses of this kind were the Congress of Vienna (1814-15) and the Congress of Berlin (1878 79) There are religious social and industrial congresses. are religious, social and industrial congresses, such as the Church Congress and the Trade Union Congress

Congreve William English dramatist Born in Yorkshire in 1670 he was educated at Trinity College, Dublin Two of his comedies, The Old Bachelor and The Double Dealer appeared in 1693, and a tragedy, The Mourning Bride, in 1697 His supreme comedies, Love for Love, 1693, and The Way of the World, 1700, are the nearest to Molière in English literature He died Jan. 19

1729, and was buried in Westmaster and Yorkshire Conisborough (WR) It stands on Doncaster, on the LNE the Don, 5 m from Doncaster, on the LNE Riv The chief industry is coal mining The town has ruins of a castle Pop (1931) 18,179

Coniston Lake in Lancashire In the Soft the Lake District, it is 51 m long Near are the Coniston Fells and the Old Man of Coniston, a peak 2630 ft high Near the lake is the village of Coniston, which is the terminus of a railway from Foxfield Here, at Brantwood, Ruskin lived and he is buried in the churchvard The village has a Ruskin museum Coniston gnt and Coniston limestone are terms used by geologists to describe formations found in the Lake District

Conjuring Art of deceiving the senses by tricks or illusions The tricks are sometimes accomplished by mere manual dexterity or sleight of hand, but they are more often aided by momentary weakening of the spectator's attention by the performer spatter, or by movements of a wand Mechanical apparatus is needed for a large class of illusions The most famous exhibitions of this kind are those associated with Maskelyne in London Robert Houdin and Charles Bertram were noted performers

Connaught Duke of British title It dates from 1874, when Arthur William Patrick Albert, third son of Queen Victoria, was made duke He was born It, May 1, 1850, and entered the army, seeing service in Canada, 1870, and Egypt, 1882
He became a field marshal and held several high commands

From 1911 16, he was Governor General of Canada

The duke mign commands From 1911 16, he was Governor General of Canada The duke married in 1879 Louise, daughter of Frederick Charles, Prince of Prussia. She died March 14, 1917 Of their three children, two were daughters, Margaret, who married Gustavus Adolphus, later King of Sweden, and died May 1, 1920, and Patricia, who married the Hon A R M. Ramsay

HOD A R BL RAILERY
The duke's only son, Arthur Frederick Patrick
Albert, was born Jan 13, 1883, and entered the
army In 1913 he married a cousin, Alexandra,
Duchess of Fife, and from 1920 25 he was
Governor General of South Africa.

Connecticut State of the United States In New England, it covers 4965 sq m The rivers include the Connecticut. Thames and Farmington It is thickly populated. Tobacco and fruit are grown, marble and slate are quarried Hart-ford is the capital, but New Haven and Bridge port are larger One of the 13 original states Connecticut

sends two senators and six representatives to Congress. Its local government consists of a Sonate and a House of Representatives Pop

(1930) 1,606,903

Connemara District of the Irish Free State It is the western part of Co Galway and is a wild and thinly populated area. It is hilly, with heights of over 2000 ft and lakes amid the hills

Conning Tower on a warship used for observation and steering In a submarine the coming tower is fitted with hatches at the bottom and on a level with the bridge for use

when submerging

Conrad Joseph English novelist. Teodar born Dec. 6, 1857, in the Ukraine, and spent life early years there and in Poland. He then his early years there and in Poland He then became a sailor and served on French and English vessels, qualifying in 1884 as a master In 1894 he settled in England and was naturalised In 1895 he published Almayer's Folly which placed him in the front rank of creative artists His stories, which deal largely with the sea and seamon include The Nigger of the Narcissus Lord Jun, Typhoon and Nostromo In his later period he wrote Chance Victory, The Arrows of Gold, The Rescue, The Rover and the unfinished Suspense The Mirror of the Sea and A Personal Record are largely autobiographical Conrad died Aug 3, 1923 Conrad dled Aug 3, 1923

Conscience Sense or knowledge that wrong. According to one theory it is the eternal moral law acting on the mind of the individual According to another it is the accumulated experience of the ages

A conscience clause is a clause in an Act of A conscience chause is a chause in an Act of Parliament which allows persons liberty of conscience in religious and other matters Clauses of this kind allow persons who object to vaccination to obtain exemption from the law compelling the vaccination of children Education Acts contain clauses allowing persons who do not believe in religion to withdraw their children from school during religious instruction The term conscientious objector is generally

used for one who objects to military service because war is contrary to his religious or other beliefs In Great Britain the laws enforcing compulsory military service in 1916-17 allowed exemption to conscientious objectors under certain conditions. The Representation of the People Act, 1918, disfranchised conscientions objectors from voting for five years unless they had performed work of national importance Conscience money is money sent voluntarily for the payment of taxes when payment has proviously been evaded

Conscription Enrolment for military purposes by lot It was introduced into England in 1757, for was introduced into England in 1757, for completing the county quotas of men raised by the lords lieutenant Substitution was allowed. This militia ballot still romains suspended from year to year France introduced conscription by lot for men between 20 and 25, substitution being allowed in 1798 It was again introduced in 1818, but replaced after 1872 by universal compulsory military service

Compulsory conscription provided the vast armies raised in the Great War It was intro duced into Prussia in 1808, and during the 19th century most of the European nations adopted it. Great Britain introduced compulsory service in Jan 1916, and later extended its scope It was also introduced into Canada and by the United States after her entry into the war After the war, Germany and Austria prevented from maintaining large armies, abandoned compulsory service, as did Great Britain and her Dominions France Italy and other countries, however, still retain it.

Consecration In ecclesiastical prace apart persons, buildings and things for the service of God In the Church of England and the Roman Catholic church the priest con secrates the bread and wine at the communion service All buildings intended for religious worship are consecrated by a bishop, as is land service set aside for burials

Consent Legal and other term meaning agreement. In English law consent is an essential part of a contract, and the courts will regard with suspicion any consent in which there is an element of compulsion English law has fixed 16 as the age of consent for cases of sexual intercourse A girl under that age cannot legally consent to the act, which is therefore a criminal offence It has been proposed to raise the age of consent above 16

Conservancy Body of men who look after rivers Usually the members are elected by county councils, landowners and others interested in keeping the rivers from flooding and their waters from contamination The most important is the Thames Conservancy Board It was set up in 1857 and has offices on the Thames Embank ment.

Conservative Name of a political now officially known as Unionist. As a party label it took the place of Tory early in the 19th century, and towards the end, owing to the adherence of the Liberal Unionists opposed to Home Rule for Ireland, was changed to Unionist.

The Conservative party stands for conserving, or preserving, the institutions of the country especially the crown and the established church. It is in general suspicious of large reforms and is the party with agricultural interests. It to the wife or husband of a monarch, who is enjoyed political power under Sir Robert Peel known either as the queen consort or prince (1841-46), formed three short ministries under consort Lord Derby and was in power under Lord Beaconsfield (1874-80) and Lord Salisbury (1895-1902)

The Conservative Club is a London club confined to members of the party. Its house is at 74 St. James's Street, S.W.1 Its house

Conservatoire School for the intenservation of the art of music Notable conservatoires are at Paris. Berlin and Leipzle

Conservator One who preserves from injury or violation. Edward III, in 1327, appointed for each county conservators of the peace In 1414 conservators were appointed in each port outside the jurisdiction of the Cinque Ports, to safeguard maritime trade
To-day the word is used chiefly for persons

elected to look after rivers. See Conservancy Consett Market town and urban district of Durham It is on the Derwent, 16 m from Newcastle-on-Tyne, on the LNE Rly It is in a coal mining area and there are large iron works Pop (1931) 12,251

Consideration Something given or accepted as a quid pro quo; in contract law, an act, forbearance, or the promise thereof, offered and accepted as an inducement In English law no contract, unless in writing, is valid or enforceable unless

there is a consideration

Consistory Court for trying ecclesi-bere is one in each diocese. It is presided there is one in each diocese over by the diocesan chancellor and hears appeals from the archdeacon's court. Appeals from its decisions he to the court of the archbishop and the Privy Council Under the Clergy Discipline Act, 1892, clerical offences against morality are tried by special consistories, with assessors to assist Papal consistories are secret consultations with the college of cardinals for various purposes The Lutheran Dutch Reformed and French Reformed churches have consistory courts

Console Name applied originally to a kind of table, supported on brackets or legs, designed to be placed against a wall Popular in France from the time of Louis XIV to that of Napoleon console tables were righty decorated and of graceful shape

Consolidated Fund Fund which of the British national revenue is paid and from which certain payments are made. It was established in 1786 and was called conwas established in 1700 and 1802 solidated because it consolidated moneys bitherto paid into several funds. To-day the hitherto paid into several funds To-day the receipts from customs, excise stamps, etc., ire paid into it. Payments to the civil list, the charges for the national debt and the salaries and expenses of the judges, are paid from the consolidated fund

Consoluted fund

Consols Shortened form of consolidated annulties, representing an important section of the British national debt. Before the Great War the national debt consisted chiefly of consols but to-day, of the total debt of nearly £8000 million, only £276 000,000 is in 24 per cent consols and £354,000,000 in 4 per cent. consols

Consort Generally a partner or associate The word is most frequently applied to a wife or husband, and particularly

Conspicuous Gallantry Medal Silver medal given to warrant officers and men of the navy and marines for gallantry in action It dates from The ribbon is blue, white and blue in equal stripes

Conspiracy In law a combination of two or more persons to procure unlawful objects, or to procure lawful objects by unlawful means It is a mis-demeanour punishable by imprisonment and a tort for which damages can be claimed

Conspiracy and combination were for a long common law of England it was a conspiracy, and therefore illegal, for workmen to combine to go on strike

The repeal of the Combination Acts of 1824 made combinations legal

Constable Title derived from the Roman count of the stable. The lord high constable of England was one of the great offices of state, but it has long of the great offices of state, but it has found fallen into disuse except at coronations, when it is revived France had a constable who discharged important duties, and the office, purely honorary, still survives in Scotland The Tower of London and Windsor Castle have constables, and at one time most castles had.

To-day a policeman is a constable Each force has a chief constable at its head and the members are police constables. Special constables are men to assist the police in times of

special pend

Constable John English painter. Born at East Bergholt, Suffolk, June 11, 1776, he studied in London at the RA schools In 1819 he was elected ARA and in 1829 R.A. His reputation began in France and it was a few years before he was equally popular in England He died in London, March 31, 1837

Constable is one of England's great landscape painters Some of his best works reproduce scenes from his home country, "Dedham Valo" and "The Valley Farm," for example Others rightly regarded as masterpleces are "The Hay Waln," "The Cornfield," "Hampstead Heath" and "Salisbury Cathedral" He also painted some portraits Several He also painted some portraits Constables are in the National Gallery, London Others are in the Louvre and the Metropolitan Museum, New York

Constance Second largest Alpine lake It lies between Germany and Switzerland, is 464 m long and covers 205 sq m The Rhine flows through the lake, on the bank of which are several towns and pleasure resorts, including Lindau and Bregenz Friedrichshafen is on the German side

Constance Town of Baden, Germany. hausen, at the point where the Rhine emerges from the lake Constance was once a free city and its bishop was a powerful prince In 1414 a church council was held here and at it John Huss was sentenced to death Although he had received a safe conduct, he was burned in the city in July, 1415 Pop 27,500

Constans Name of two Roman emperwas the voungest son of Constantine the Great He received of his father's empire Africa Illyricum and Italy in 337 He then defeated

Flavius Heraclius Constans succeeded his father, Constantine III in 642 He opposed the growing Mohammedan power, and effected substantial improvements in military and naval organisation, but warred unsuccessfully with the Lombards He was murdered in 668

Constanta Port of Rumania spelt Constantza It the Black Sea 140 m from Bucharest It is on It is Rumania's chief scaport and from it much oil and grain are exported Pop (1930) 58,258

Constantine City of Algeria. Situ ated 40 m from its port, Philippeville, it stands on a limestone plateau There are some Moorish remains Textile goods, ornamental leather and metal work are produced Constantine the Great rebuilt and renamed it. Pop 93,750

Constantine Name of ten Roman em perors, the first of whom was Constantine the Great (q v) His second son, Constantine II (337 340) reigned over Britain, Gaul and Spain Constantine IV, Pogonatus or Bearded (668 685) overcame a Saracen siego of Constantinople by the recently invented Greek fire Constantine V (741 755) secured the condemnation of image worship by a the condemnation of image worship by a council Constantine VII, Porphyrogenitus or Born in the Purple (912 959) was a liberal patron of learning Under Constantine IX (1042 1055) the Western and Eastern churches definitely separated Under Constantine & (1059 67), the Magyars occupied Belgrade, and Turkish tribes reached Macedonia Constantine XI, Palaeologus (1448 53), the last East-Roman emperor, fell at the taking of Constantinople by the Turks in 1453

Constantine King of Greece The he was born in Athens, Aug 3, 1868 In 1889 he married Sophia, a sister of the Emporor William II and in 1913 he became king He declared himself neutral when the Great War broke out, but his sympathy with the Germans led to trouble and in 1917 he was deposed in favour of his son, Alexander He lived for a time in Switzerland, but returned to Greece and recovered the throne in 1920 On Sept. 22, he again abdicated and he died Jan 11, 1923

Constantine Roman emperor called the Great. Flavius Val erius Aurelius Constantinus was born at Naisses, the modern Nish, about 288 His father was Constantius Chlorus, on whose death he became emperor It was necessary, however, he became emperor It was necessary, however, for him to deal with his rivals before he could be said to rule One of these, Maxentius, was killed in battle near Rome in 312 On this occasion Constantine is said to have seen the cross in the sky with the words "in this sign thou shalt conquer" The result was that the Christians were tolerated, the emperor himself became attached to their faith and the momen tous union between the Christian church and the Roman state became By defeating the Roman state began By defeating Licinius at Adrianople in 323 Constantine became ruler of the whole Roman Empire He presided over the council of Nicaea in 325 and in 330 transferred the capital from Rome to Byzantium. He died at Nicomedia, May 22, 337

Constantinople Former name of the Turkish city of Stamboul or Istanbul (qr)

his brother, Constantine II, and acquired Britain, Gaul and Spain in 340 He died in lerius Chlorus, the Pale (250 306), was adopted by Maximian and granted the caesarship of Britain, Gaul and Spain in 292 He recovered Britain after the revolt of Carausius and Allectus in 296, followed Maximian as Augustus in 305 and died at York, being succeeded by his son Constantine the Great

Flavius Julius Constantius (317 361), Constantine the Greats third son received the eastern empire. The death of his brothers and the usurper Magnentius gave him the west also Constantius III was an Illyrian soldier He suppressed the Attalus rising in 416 then married Placidia, sister of Honorius, and reigned with him for soven months. He died In 421

Constellation Group of fixed stars usually associated with an imaginary figure, such as a bear or a lion The naming of prominent star groups, such as Ursa Major and Orion traceable to the prosemitic population of the Euphratos valley, passed to the Greeks who recognised 48 such The southern sky was similarly mapped out by 16 18th century astronomers. There are now recognised 28 morthern, 12 zodlacal and 49 southern constellations

Incomplete or irregular Constipation Incomplete evacuation of bowels, arising from functional causes debility or disease The condition causes a species of auto into ication or poisoning of the system, producing headache, lassitude, loss of appetite, coating of the tongue, and severe indigestion Chronic constipation invariably affects the general health and may lay the foundation of many serious complaints

Treatment — Lead a natural, nearly, mountain plenty of outdoor walking exercises. Avoid excess of food, two good regular meals being the ideal. Avoid eating between meals, but drink several tumblerfuls of water daily meals and not during them. Intro Treatment -Lead a natural, healthy life with duce into the daily menu such natural foods as fresh fruit salads, and green vegetables,

wholemeal bread, prunes, otc Aperien.s however mild, should not be taken habitually, and castor oil should not be given in cases of constipation. Good aperients are cascara, senna, Epsom salts sulphate of magnesia, etc Medicinal parafilm, merely acting as a lubricant, is more suitable for prolonged use

Constituency Body of persons en sentatives to a legislative body

Constituent Assembly

Body assembled to formulate a constitution During the French Revolution the States General, constituting themselves a National Assembly in 1789, elaborated a constitution After the Great War constituent assemblies met in Germany, Czechoslovakia and other countries

Constitution Assemblage and union of body or system It may be of natural origin, as with the universe stars and living bodies, or a system of principles and rules, either recognised by prescriptive usage or written, governing a state or association

The British constitution comprises the col lective principles of public policy whereby Britain is governed. It has developed from age to age by successive compacts between the

crown and the parliament, until the supremacy of the latter, as representing the people, has been established

The Constitution of the United States is contained in a document, the terms of which cannot be changed without special procedure

The British constitution is unwritten

The Constitutional Club is a London club, chiefly for Unionists It is at 28 Northumberland Avonue Constitution Hill, London runs from Hyde Park Corner to Buckingham Palace

Consubstantiation Boctrine that in the eucharist Christ's body and blood, being ubiquitous, are necessarily present and coexistent with the elements, which nevertheless may or do retain their nature as bread and wine. It was taught by some mediaeval schoolmen and adopted by Luther. The Council of Trent rejected it, reaffirming the Roman doctrine that the eucharistic elements are transubstantiated into the body and blood of Christ.

Consul Ancient Rome's two chief magistrates When the line of kings ended in 509 BC, the two practors elected were also called consuls At first patricians, the Licinian law (367 BC) required one to be a plobeian Holding office for one year, they presided over the senate Under the empire their authority declined, but the office lingered until AD 541 The title was revived in 1799 when Napoleon was styled First Consul in France

Consul Official commissioned by a state to protect the interests of its subjects in a foreign country British consuls report to the Foreign Office, under which they act, rendering services also to the mercantile marine for the Board of Trade The general division comprises consuls general, consuls, vice-consuls, consular agents and attachés

The British consular service has members all over the world They assist British traders and travellers and in special cases, can celebrate marriages or take evidence for a lawsuit In London, all the great countries of the world have consulates where persons who wish to travel to those countries must go to get their passports put in order

Like an embassy a consulate is regarded as the soil of the country there represented

Consumption In economics a term used for the use and therefore the disappearance of the products of industry An example of useful consumption is the provision of coal to a furnace, an example of wasteful consumption is the example of wasteful consumption is the individual of considerable quantities of liquor Industrialists have devoted their attention to etimulating production, leaving consumption to look after itself After the Great War, however, the world's productive power seeming so much in excess of its consumptive capacity, more attention was given to the problem of consumption

Consumption Old name for the disease known as tuber-culosis (qr) It is a disease affecting any organ of the body and is so called because, by it, the tissues are gradually consumed or burned away

Contagion Communication of disease by personal contact Communicable diseases are indiscriminately designated contagious or infectious They include smallpox, whooping cough, mumps, typhus and tuberculosis. Scarlet fever is better designated infectious than contagious Infection

is communicable through wearing a previous sufferer's clothes, breathing air contaminated by his exhalations, handling his utensils, or by carriers  $(q \ v)$ 

Contagious D'scases Acts were passed in the 19th century to control and regulate the prostitutes in military areas in the United Kingdom and India Their aim was to protect the soldiers from venereal diseases They were repealed in 1886, on the ground that state regulation of vice was undesirable

Contempt of Court in English law meaning any disobedience of the orders of a court of law It includes unseemly behaviour in the court itself It is contempt of court for a newspaper to comment upon a case that is being heard, or for anyone to assault a person who is employed by the court to deliver a writ or summons Another kind is to disobey an order for the payment of money In all these cases the judge can send the offender to prison.

Continent Continuous land mass, in contact with continuous water masses called oceans. The land surface of the earth comprises five great masses (1) Eurasia, including Europe, 3,750,000 sq m and Asla, 17,000,000 sq m, (2) Africa, 11,500,000 sq m, (3) America, including North America 8,000,000 sq m and South America 6,800,000 sq m, (4) Australia, 3 000,000 sq m, (5) Antaretica, 5,000,000 sq m

Continental System Napoleonic plan for a blockade, designed to exclude British merchandise from Europe The British command of the sea, the Peninsular War and Russia's break with France ended his attempt to ruin Britain's trade

Continuation School In Great institution providing instruction for children and institution providing instruction for children after leaving an elementary school The Board of Education after 1902 encouraged county and county borough councils to set up continuation schools in connection with technical schools Acts from 1918 onwards obliged local education authorities to establish part time continuation schools Continuation schools exist in the United States, Germany and elsowhere

Contour In surveying, a curve of equal elevation or depression on a map The coast line is the datum level from which all contour lines are measured

Contraband In time of war materials and commodities which international law forbids subjects of neutral states to supply to belligerents Materials of direct application to hostile use are absolute contraband and are distinguished from articles fit for such use, which are conditional contraband Ammunition is absolute contraband, copper and cotton are conditional There were many cases of seizure during the World War

Contract Agreement to perform a cer tain action. This is a very important branch of English law It is not necessary to put a contract into writing, though in many cases this is desirable. A contract requires two main conditions to be valid. These must be offer and acceptance and the acceptance must be absolute, not conditional. The acceptance must also be definite. Silence does not give consent to a contract. A contract

318

CONTRACT NOTE The document sent by a stockbroker to his client giving details of a It must be stamped

Contract Bridge form of bridge first played in America It is governed by an elaborate set of rules, but the general principles are the same played in as those of auction bridge (q r ) The chief differ ences are that tricks scored in excess of the number contracted for do not count towards game and that, after having won a game the game and that, after having won a game the winning side is vulnerable for the rest of the rubber. To be vulnerable means that its points, both for winning and losing, are greater than those of its opponents Points are given to players for fulfilling their contract, whilst those who fail to do so lose points

Contractor Person or firm contracting with a government, public body or private party to construct works or supply commodities for a certain price There are usually time limits, sometimes with penalties for any breach of the terms Firms who undertake government contracts must be on the Kings Roll of those who employ or cerrice men Members of such firms, if members of the House of Commons must resign their seats on receiving a government contract.

Contralto in music a female voice approximating to the male alto. It has an average compass of from



Control Superintendence and authority over someone or something In Great Britain certain authorities are called boards of control One is the Board of Control for Lunacy and Mental Deficiency Its mem bers, called commissioners are chiefly medical men, its offices are at Caxton House West Tothill St London, SW 1 It was set up in its present form in 1913 In 1915, a board of control was set up to supervise the sale of intoxicating liquors in certain areas the chief being the one in and around Carlisle

Controller Device for regulating power and speed in electric cars and rotating turrets On trains of cars a multiple controller brings all motors under simultaneous control

Another kind of controller is a person in control of a business or department In the public service there is a controller of stamps, and during the Great War there was a food controller and controllers of wool, timber, paper and other supplies.

One who convenes or calls Convener One who convenes or calls term is used for chairmen of county councils and presidents of committees.

Convent Assembly of persons gathered together in retirement from the world and also the building housing them the world and use the bullaring holsing them.

A convent is now a Christian nunnery where derout women spend their lives in prayer and works of charity and education

Conventicle Term used before and after the Reformation

must be for a consideration, unless it is made and of the second of the terian meetings or meeting places

Convention Term denoting a formal meeting, or formal agree ment after a conference Convention parliamonts are those summoned without the king's writ The meetings of the political parties that choose the candidate for the US presidency are called conventions. In 1932 both the are called conventions In 1932 both the Republicans and the Democrats held their conventions in Chicago Agreements between states on matters of

Agreements between states on matters or non political interest are usually called conventions, such as those concorning fisheries between Great Britain and the United States Conventions negotiated at international conferences regulate postal services, telegraphs, sugar bounties, copyright, patents, trade marks, the slave trade, the succour of wounded in war, and international courte. and international courts

Conversion In law an act by which a property or possessions of another in a manner inconsistent with the other's right of ownership The remedy is by an action in the courts.

In financial matters conversion is making a change in the form of a security Consols were converted from a 3 per cent. Into a 24 per cent stock in 1887 In July, 1932, the British Government announced the conversion of \$2,084,000,000 of 5 per cent. War Loan to Consols were 31 per cent

Conversion In theology a change of spiritual attitude from one religion or church to another In a more intimate sense it denotes a radical personal change, sudden or gradual, from an attitude of self seeking and enmity towards God to one accepting God's proffered grace

Converter Oval shaped iron retort lined with refractory materials in to which molten iron is poured to be converted into steel It was invented by Sir H Bessemer, who lined it with acid materials such as clay bound quartz. The usual capacity is from 20 to 25 tons Basic lined converters are also used for the extraction of copper

Conveyancing Act of effecting by written documents the transfer of real property, or modifying the interests therein By the Conveyancing Act of 1881, and its amendments this profession, formerly monopolised by barristers, is open to solicitors Conveyancing counsel assist the changeon court, by investigation assist the chancers court by investigating titles Stamp duties are charged on the con These work out at about 1 per cent on the purchase price, but half duties only are charged on properties worth less than 2500 vevance of property

Conveyer Mechanical contrivance for transporting materials in bulk Such devices may consist of tubes through which rotating worms convoy liquid or solid materials. Other types are flexible or metallic bands or belts, push plates, travelling troughs and tilting buckets

Convocation Assembly summoned by constituted authority At Oxford University it is the governing body
The convocations of Canterbury and York
are assemblies for ecclesiastical purposes
Fach consists of an upper house composed of
the bishops and a lower house in which are
deans, archdeacons and proctors representing the beneficed clergy In 1886 a house of laymen was added.

Convolvulus Typical genus of twining herbs Gardeners cultivate the European C allianoules and C tricolor, calling the latter convolvulus minor The tropical American ipomaea purpura or morning glory, is called convolvulus major Both yield handsome blue, crimson; striped and white blooms Sce Bindweed

Convoy Troops or warships which accompany supplies or merchant vessels to afford them protection in time of war

Convulsion Involuntary contraction and relaxation of muscle in rapid alternation, usually accompanied by unconsciousness Convulsive fits are symptoms of many disease states, requiring professional aid Three fourths of the deaths from norvous diseases in children within their first year are due to convulsions. They may arise from teething, irritation or worms, and are commonly treated by warm baths with cold cloths to the head In adults they frequently accompany epilepsy, hysteria and cerebral congestion

Conway River of North Wales It rises in the mountains of Merion-ethshire and flows between the counties of Denbigh and Caernaryon to Beaumaris Bay It is 30 m long and flows through some of the most beautiful scenery in Wales

Conway Borough, market town and seamouth of the River Conway and sometimes called Aberconwav it is 224 m from London and 13 from Bangor on the LMS Rly The town is famous for its castle Pop (1931) 8769

Conway Training ship She is moored at Rocky Ferry, Birkenhead, and is used for the Mercantile Marine Service Association The first ship used for this purpose was H M S Conway, a 28 gun frigate Later the frigate Winchester and the battleship Nile were used as part of the Conway establishment to train boys for the service

Cony Name used for rabbit skin when made into far Spelt coney, it is used in the Bible for a rabbit-like mammal of the ungulate order, the Syrian hyrax

Cooch Behar State of India It is in Bengal and is governed by a maharajah, who has a salute of 13 guns The chief town is also called Cooch Behar The state covers 1300 sq m Pop 592,500

Cook James English seaman and explorer He was born at Marton, Yorkshire, Oct. 27, 1728 His earlier years were spent in the merchant service, but in 1755 he entered the navy and four years later was appointed to command a sloop He surveyed and charted the estuary of the St Lawrence and the coasts of Newfoundland and Labrador. In 1768 he was appointed to command a scientific expedition to the South Seas During his vovage, which lasted two years, he explored the Society Islands, circumnavigated New Zealand and charted the coasts, and surveyed the whole east coast of Australia

Soon after his return to England, Cook sailed on his second and greatest voyage, in which he practically completed the exploration of the southern hemisphere, determined the position of Easter Island, discovered New Caledonia, Norfolk Island and the Isle of Pines, and disproved the hypothesis of an antarctic continent, as then understood On his return in 1775, he was promoted port

captain, elected a fellow of the Royal Society and awarded the society's gold medal

Captain Cook's last voyage was undertaken to discover the north-west passage On his way he discovered the Hawaiian Islands and surveyed the west coast of N America up to the Bering Strait and beyond His farther progress being stopped by ice, he returned to Hawaii, where he was killed by the natives, Jan 17, 1779

Cook Sir Joseph Australian politician Born in England in 1860 he became a miner in Staffordshire In 1885 he settled in Australia and joined the Labour Party there A member of the New South Wales legislature. 1891-1901, he was Postmaster-General, 1894-98, and minister for mines and agriculture, 1898-99 In 1901 he entered the Commonwealth parliament becoming leader of the Free Trade party Leaving the Labour Party, he was minister for defence under Alfred Deakin in 1909-10, Prime Minister in 1913-14, in 1917-20 minister for the navy in the coalition ministry, and treasurer 1920-21 In 1919 he was Australian representative at the Versailles peace conference Knighted in 1918, he left political life and was High Commissioner in London, 1921-27

Cook Thomas English business man Born at Melbourne, Derbyshire Nov 22, 1808, he was a temperance advocate and in 1841 he arranged with the Midland Counties Rly for a special train to carry people from Loicester to a temperance meeting at Loughborough This led to similar overtures and Cook became a tourist agent, acting for the Midland Rly Excursion trains were run to the exhibition of 1851 in London, and soon the business of Thomas Cook & Son was founded In 1865 its headquarters were moved to London, and in time it had branches all over the world For long the chief office was in Ludgate Circus, but in 1928 it was moved to Piccadilly Cook died July 19, 1892

Cook Islands Group of nine islands in the Pacific Ocean Between 155° and 166° E and about 20° S, they were discovered by Captain James Cook in 1777 They are partly volcanic and partly corolline The soil is fertile and the climate good The chief island is Rarotonga. Others are Mangaia, Atutaki, Atin Mauke and Mitiero The group also includes the Hervey Islands, Savage Island and Palmerston Island, and the whole of the islands are sometimes grouped as the Hervey Archipelago

The group was proclaimed a British protectorate in 1888 and annexed by New Zealand in 1901 The natives are mainly Polynesians of Samoan descent The principal products are coconuts, copra and fruits The total area is 280 sq m Pop 13,900

Cookery Art of heating food to render pa'atable There are six ways of cooking meat —grilling, reasting, baking, boiling, frying and stewing Stewing requires immersion of the meat in warm liquor and the slow cooking of it to transform its juices into rich gravy All the other methods aim at the retention of the juices by sealing the meat by the intense heat first applied to its surface Grilling and reasting are the most primitive and satisfactory methods, boiling is the most economical Baking is reasting in a closed oven. Frying requires immersion in het oil or feet.

Frying requires immersion in hot oil or fats
The National Society's Training College for
Teachers of Domestic Science, Berridge House.

Cookham Riverside town of Berkshire memory to the Thames, 27 m from London, on the G W Rly It is a boating and fishing centre, and there is a lock. Pop 5850

Cookstown Market town and urban district of Co Tyrone, Northern Ireland It is 53 m from Belfast, on the Gt. Northern (Ireland) Rly There is on the Gt. Northern (Ireland) Rly There is agricultural trade and linen is manufactured It has chemical works Pop 3700

Cooktown Scaport of Queensland There are sugar plantations in the neighbourhood, and pearl fishing is carried on It is about 1000 m from Brisbane and is the terminus of a railway line that serves the mines in the interior Pop 1257

Coolgardie Town of Western Aus trails It is 360 m to the west of Perth by railway The gold mines around, opened in 1892, are much less productive than formerly Coolgardie is, however an important railway junction on the trans

continental line

Coolidge John Calvin Thirtieth Presi born at Plymouth, Vermont, July 4, 1872 He studied law and was admitted to the Bar in 1897, and after various legal and political appointments, became Governor of Massa chusetts in 1919, when he dealt firmly with the Boston Police Strikers In 1921 he was made Vice President of the U.S.A and in 1923 President. He was re-elected for 1923 President. He was re-elected for 1925 29 During his term of office, portions of the national debt were paid off, income tax was reduced, and the country was very prosperous

Coombe District of Surrey It is 2 m from Kingston on Thames and 10 m from London, on the S Rly With Malden (q v) it forms an urban district. Coombe Abbey in Warwickshire is the seat of the Earl of Craven

Coonamble Town of New South Wales In an agricultural district, it has an experimental farm maintained by the state Ostriches are reared. It is about 375 m by railway from Sydney Pop 3820

Cooper Term used for a maker of barrels The Coopers Company, one of the London livery companies, dates from 1501

Its hall is in Basinghall Street

Its hall is in Basinghau Street

A different use of the word is for cooperage
This means selling drink and tobacco that
have not paid duty to fishermen at sea It
was done by Dutch ships called koopers, but
has heen largely stopped by international has been largely stopped by internagreement. By English law it is illegal

COOPER Gladys (Lady Pearson) English actress, born Dec 18, 1889, at Lewisham She first appeared as Bluebell in Bluebell in Fairyland in 1905, and in London in 1906, as Lady Swan in The Belle of Mayfair Her chief successes have been in Diplomacy. The Naughty Wife, Magda, Iris, and The Last of Mrs Cheyney She married Sir Neville Pearson in 1928

American | James Fenimore Cooper Born at Burlington. author

West Hampstead, NW 6, and the National Training School of Cookery, Buckingham Palace Road, SW 1, are the principal London training institutions Cookery is taught also in the domestic science or homecraft sections of the Polytechnics and technical institutes in most large towns

NJ, Sept 15, 1789, he was educated at Yale. He served on a merchant ship and later in the US Navy Cooper wrote more than 30 novels, dealing chiefly with Red Indian life sections of the Polytechnics and technical institutes in most large towns

Cooperstown, New York, Sept 24, 1851

Cooper Samuel English painter Born in London in 1609, he was called "Vandyke in little," and became the greatest miniature painter of the time and perhaps of all time His works, which include portraits of Charles II, Catherine of Braganza, Cromwell, Wilton and others are observed and the beautiful of the part of the same of the same and the same and the same are the same and the same are the Milton and others, are characterised by boldness and freedom of style He died in London, May 5, 1672

Cooper Sir Astley Paston English sur 23, 1768, he studied at S Thomas's Hospital, London, and under John Hunter In 1800 he became surgeon to Guy's Hospital, and 13 years later was appointed professor of comparative anatomy at the Royal College of Surgeons He made many advances in surgery, specialising in hernia and other abdominal complaints, and in recognition of his work was made a baronet in 1820 He died Feb 12, 1841

Cooper Thomas English Chartist and 20, 1805, in 1841 he became prominent in the Chartlet movement, and in 1843 for advocating strikes was sent to prison for two years Hither to a free thinker, in 1856 he began to lecture on Christian evidences He died at Lincoln, July 15, 1892 While in prison Cooper wrote The Purgatory of Suicides, The Paradise of Varlyrs and an Autobiography

Cooper Thomas Sidney English painter Born in Canterbury, Sept 26, 1803, he studied in London, and at Brussels from 1827 to 1830 He was elected R A in 1867, and in 1882 presented an art gallery to his native city His animal pictures are well known Examples are in the National Gallery, Tato Gallery and Wallace Collection Gallery, Tato Gallery an Cooper died Feb 7, 1902

Co-operation Acting together mutual benefit together Cooperation in agriculture, which takes the form of setting up creameries, bacon factories, etc., to deal with the produce of a group of farmers, is one form There are also co operative societies for the building of houses

In the narrower sense co-operation is used for the movement started by Robert Owen in 1821 His idea was that a body of consumers should band themselves together to supply their own wants and so eliminate the

sumers snould band themselves togother to supply their own wants and so ellminate the capitalist In 1844 a few of his followers opened a store in Rochdale, the profits taking the form of a dividend Non members were supplied with goods, but received a lower dividend dividend.

The Rochdale society soon numbered 5000 Similar stores were opened in Leeds, Dorby, Oldham, Nottingham, Hallfax, Manchester, Bolton, and elsewhere and the movement spread to the south Some of the societies soon had a chain of shops and auxiliary establishments Management was in the hands of committees elected by the members
Despite many failures and much default, the movement grew In 1864 a central pur

chasing agency, which became the Co-operative Wholesale Society, was established In Great Britain there are 1135 retail societies,

92 productive societies and 3 wholesale societies The turnover of the retail societies for 1934 was over £207,000,000 The wholesale societies, which own factories for making clothing, and other industrial establishments have a yearly turnover of about £100,000,000 The dividends of the retail societies average about 1s 10d in the £ or just under 10 per cent The coin the £ or just under 10 per cent The co-operators hold an annual congress and conduct a weekly paper, The Co-operative News Thoy have secured the return of several members to Parliament

Cooper's Hill District of Surrey It is near Staines, over-looking the Thames Here in 1870 a college was opened for training candidates for the engineering service in India It was closed

in 1906 Coot (ulica atra) Water fowl belonging to the rail family It is widely dispersed throughout northern Europe and Asia The plumage is uniform black, but the males are distinguished by a light bare callosity on the head, from which the hird is sometimes called the bald coot The coot breeds in inland waters, but in winter usually resorts to estuaries and other waters such as the Broads and Southampton Water

Cootamundra Town of New South Wales It is 260 m from Sydney, a railway junction and an agricultural and mining centre Pop 3350 Idier Born in

Coote Sir Eyre British soldier Born in Co Limerick in 1726, as a captain in the 39th foot he served with distinction in the advance on Calcutta and at the battle of Plassev In 1759 he commanded the forces at Madras, and next year defeated the French under Lally at Wandiwash He was knighted, and in 1779 went out to India as commander-inchief, achieving his great triumph in 1781 by the overthrow of Hyder Ali He died at Madras, April 28, 1783

Copal Resin used in the manufacture of varnish It is obtained from various He died at

sources, the most important commercially being trachylobium hornemannianum, which vields what is known as Zanzibar, or East African copal It is both ran and in the fossil state, the

latter being more valuable Co-partnership Arrangement over and above standard wages, share in net profits and in the control of and responsibility for an undertaking

In 1930 there were in existence 491 schemes of this lind with 238,000 employees concerned They distributed on the average 29 18s to each co partner There is an Industrial Co partnership Association with headquarters in London

Cope Liturgical vestment Once the cope was a cappa, or raincoat worn by clergy and laity alike Now it is semi-circular, richly decorated and held in place by a morse or a piece of silk fastened across the breast Anglican bishops wear the cope at important ceremonies

Cope Sir Arthur Stockdale English portrait painter A son of C W Cope, RA, he was born Nov 2, 1857, educated at Norwich Grammar School and Wiesbaden, and received his training at the Royal Academy Schools and Paris In 1876 he began exhibiting at the Royal Academy and in 1910 was elected P.1 His numerous works include portraits of King George and King Edward. In 1917 he was knighted

Cope Sir John. English soldier He entered the army about 1720 and served abroad in 1742 During the Jacobite rebellion

in 1745 he was made commander-in-chief of the English forces and met the rebels at His troops fought so badly that Prestonpans a court of inquiry was held, but he was exonerated. He died July 28, 1760

Copenhagen Capital of Denmark. It is situated mainly on the east coast of the Island of Zealand and with its sonthern portion, called Christianshavn, on the adjacent Island of Amager, began to assume importance in the 12th century, but it was not until the middle of the 15th that it passed into the possession of the crown and became the capital Christian I founded the university in 1479 Pop (1931), 771,168 There are several palaces, one, the Rosen-

borg, is now an art gallery and museum The Charlottenborg is also public property The city hall is a fine edifice and the Thorwaldsen is one of several museums. Of the many churches, the most noted are the cathedral and the Frederick and Holmen's

Copenhagen is Denmark's banking financial centre and the headquarters of its literary, educational and artistic activities The chief industries are connected with shipping Its industries include textiles, watches, clocks, porcelain, brewing, distilling and sugar retining

The most celebrated incident in the history of Copenhagen is the battle of April 2, 1801, when a British fleet under Hyde Parker, with Nelson as second in command, was despatched to force Denmark's withdrawal from the "armed neutrolity" By a daring manoeuvre of his division of the fleet, Nelson gained a brilliant victory, and the object of the expedition was achieved

Copernicus Nicolaus Polish astron-feb 19, 1473, he studied mathematics at Cracow, canon law and astronomy at Bologna and medicine at Padua From 1507 to 1513 he lived at Heilsberg, and later Frauenberg v here he elaborated his treatise De Revolutionibus Orbium Coelestium, which demonstrated the true relations of the earth to the sun and planets Copernicus was rejuctant to publish the whole work. The summary, however, made such a deep impression, that at last, in 1540, he consented to publication. He died May 24, 1543

Copper Metallic element. Its chemical symbol is Cu and atomic weight 63 1. Of reddish colour, it is malleable and ductile, but nearly as tenacious as iron was known and used by man long before the discovery of Iron Bronze, which is the allow of copper with tin, was the first compound metal, and in the manufacture of weapons was not completely superseded by iron until comparatively late in historic times The name copper points back to the time when Rome drew most of its copper supplies from Cyprus, hence, as Cyprum, which was colloquially shortened to cyprum and later cor rupted into cuprum

Copper is found in two forms-native or virgin copper and copper ores. The former, of which the largest deposits are in the Lake Superior region, consists of metallic crystals practically identical with smelted copper. The latter, which are numerous and widely distributed, include the oxides cuprite and melaconite, the carbonates malachite and chessylite and the sulphides—most valuable of all the ores—chalcocite, chalcopyrite, chalcopyrite erubescite and tetrahedrite The United

States produces nearly half of the total world and 50 years after his death. The provisions output of copper. According to the most that deal with music and musical contrivances, output of copper According to the most recent returns available in 1933, this amounted to 1,430,000 tons. Of the other copper producing areas, Chile, Canada, Mexico, Spain, Japan and Australia are the most important Recently work has been started on vast deposits in Rhodesia Great Britain was for over 2000 years one of the great sources of copper and tin,

but has now practically exhausted her supplies

Copper Age ologists for the period in

which man used implements made of copper It is supposed to follow the stone age, and to be followed by the bronze age somewhere about 2000 B C Its date was

Copperhead Poisonous snake of N American Civil War the name was applied by Lincoln's supporters to those Northerners who advocated an agreed peace with the South Hence it came to be a nickname for the Democratic party

Coppermine River of the north west flows into Coronation Gulf It was first explored by Sir John Franklin in 1821 It is nearly 500 m long, and consists largely of a series of large and rapids

series of lakes and rapids

Copra Dried coconut kernel It yields an copra oil used for the manufacture of

margarine, soap, candles etc.

Coprolites Fossilised excrements of extinct saurians and fishes They are valuable as manure, by reason of their richness in calcium phosphate East Anglia is rich in such deposits To prepare the manure they are ground to powder and treated with sulphuric acid

Copts Name of a Christian sect in Egypt The Coptic community represents, not only the indigenous Christianity, but also

not only the indigenous Christianity, but also the ancient race of Egypt.

The Copts form about one fourth of the total population of Egypt, but hold a position of great influence in the business and professional life of the country. The Coptic language, which bears the same relation to ancient Egyptian as modern Greek to classical Greek it are longer in use save to a limited. Greek, is no longer in use, save to a limited extent in the services of the church The Coptic Church has an ancient ritual, not unlike that of the Greek Church It does

not use the crucifix or reserve the sacrament Its head is the patriarch of Alexandria under whom are bishops in Egypt and Abvssinia

Copyhold Method of holding land on English manors much land was held on conditions laid down on the rolls of the manor and this was called copyhold The conditions were usually a payment of some kind or a service to the lord of the manor, perhaps the payment cach year of a fowl, or the performance of some days of work on the lord's land Gradually these services were changed into money payments, but the land was still called copyhold. It was a less complete form of ownership then freechold. less complete form of ownership than frechold, but more complete than leasehold. This form of land tenure was abolished by the law of Property Acts of 1925

Copyright a book, play, picture, photography and the second of the se

graph, piece of music, or any other artistic work, or any substantial part thereof In 1768, Great Britain the existing law was established by the Act of 1911, under which copyright of a book exists for the lifetime of the author 1793

such as gramophone records, are very elaborate
In cases of an infringement of copyright
an author can ask the court for an injunction to prevent publication of the offending book or can claim damages Copyright can be transferred from one person to another

By the Berne convention of 1908 certain countries recognise one another's copyrights. To obtain protection in the USA a British author must have an edition of his work set up in type in that country and published

simultaneously

Coquelin Family of French actors
Benoft Constant Coquelin was born Jan 23, 1841, made his debut in Molière's Depit Amoureux and by rapid steps became France's leading actor He toured America with Sarah Bernhardt, visited London in 1892, 1902 and 1908, and died in Paris, Jan 27, 1909 Coquelin's brother, Ernest Alexandre Honoré Coquelin, was born May 16, 1848 His career was also brilliant until his death, Feb 8, 1909

Coracle Primitive fishing boat Observed in British waters at Caesar's invasion, it was a portable, skin covered wicker frame, with thwart and paddle Covered with tarred canvas, it is still seen on the Telfy and the Dee

Coral Formation of carbonate of lime consisting of the skeletons of marine polyps The principal species are found in tropical seas and shallow waters, mainly between the 28th N and 28th S parallels of latitude

The formations include fringing reefs, which extend from the shore seawards only a short distance, barrier reefs, which are of similar structure, but on a much larger scale, and atolls, which are ring-shaped reefs often surmounted by islets

Coram Thomas English philanthropist.

Born in 1668 at Lyme Regis, he became a sallor His interest in foundlings led to the opening of the Foundling Hospital in Hatton Garden, London. Later it was moved to Guildford St and then into the country He died March 29, 1751

Cor Anglais (or English Horn) Wind instrument of the reed the bottom, and its compass is two octaves and a fifth.

Corbett James John American pugilist Born at San Francisco in 1866, he became a professional boxer He defeated J Choynski in 1889, J L Sullivan in 1892, thereby gaining the world's championship, and Charles Mitchell in 1894, but was defeated by Robert Fitzsimmons in 1897 In 1891 he fought 61 rounds with Peter Jackson, the fight ending in a draw He retired after Aug. 1903, when he was defeated in the 10th round by J J Joffries.

Town of Northumberland

Corbridge Town of Northumberland it is situated on the north bank of the Tyne, 4 m from Hexham on the L.N.E. Rly The site of the Roman station of Corstopitum is near Pop 2415

Corday Charlotte French revolutionary darmont was born of good family, July 27 1768, near Seez, Normandy She conceived it her duty to rid France of Varat, and stabbed like in the both has man relief the day to rid. him in his bath bhe was guillotined, July 17,

Cordelier Member of a political club Revolution called a Society of the Friends of the Rights of Man and of the Citizen and founded in the Cordeliers district Paris, 1790 It popularised the motto, "Liberty, Equality, Fraternity," and was influential in establishing the worship of Reason The Convention decreed its extinction in 1795 Cordillera 8 Insuran Andes, and

Cordillera 🗟 then to their extension through Mexico It is nowadays specifically used for the mountain systems between the Rocky Mts and the Sierra Nevada

Cordite Smokeless propellant of the British forces Originally devised by an Ordnance Committee, in 1891, it is nowadays the variety, cordite D, which comprises guncotton, 65 per cent., nitro-glycerine, 30 per cent., mineral jelly, 5 per cent Pressed into waterproof cylindrical rods, varying in thickness from 1 mm. upwards, it is used in rifle cartridges and heavier ammunition

Cordoba City of Argentina It is 435 m from Buenos Alres It has a 17th century cathedral, a church built earlier by the Jesuits, a university founded in 1613 and an observatory It is a railway junction and a processory and a prosperous commercial city, manufacturing and (1931) 253,182 with Pop

Cordon French word for line or cord of certain orders of chivalry, and thence a person eminent in any profession, such as a cordon bleu in cookery It denotes also a line of posts surrounding any area for preventing ingress or egress

Cordova Cordoba, and standing on the Gundalquivir, 82 m from Seville It was founded by the Carthagnians, but the Moors made it famous The mosque, now a cathedral, is one of the chief examples of their art There several colleges Cordova is the capital of a province in which coal and copper are mined Pop (1931) 106,045

Cordwainer Maker of shoes of Cordova leather The Cordwainers formed a company, now one of the London livers companies The hall is at 7 London livery companies. The hall is at 7 Cannon Street, E.C., and the company supports a technical school at Bethnal Green

Corduroy Stout cotton fustian made with a pile so cut as to leave a ridged surface in the direction of the warp. A corduroy road is a path made over swampy ground by fastening logs together, it is so called on account of its ridged appearance

Corelli Marie English novelist Born 1917 she produced novels which were widely read because of their bearing on the religious read because of their deating on the tengious and social questions of the day. For many years the lived at Stratford-on-Avon, and the died April 24, 1924. Her most popular books were The Romance of Two II orlds, The Sorrows of Salan, The Mighty Atom, The Master Christian and God's Good Man

Corfe Castle Village of Dorset It is 4 m from Wareham and 1171 from London, on the S Rly, and is in the district called the Isle of Purbeck It is famous for its castle, now a ruin, the scene of the murder of King Edward the Martyr in 978 Pop 1400

Corfu Northernmost of the greater Ionian islands Lying of the coast of Corfu islands Lying off the coast of Albania and Epirus, it is 40 m long and covers 270 sq m It is mountainous in the north Olives, pomegranates, figs and grapes are grown Anciently called Coreyra, it offered hospitality to the Serbian Government and troops during the Great War, the pact of Corfu, 1917 laid the foundations of Yugoslavia. Corfu, the capital, on the east coast, has a fine harbour Pop 32 221

Corgi Welsh dog coming from Pembroke-shire and Cardiganshire Those from Pembrokeshire have long tails and the others short ones The Pembrokeshire variety are either red or red and white, whereas the are either red or red and white, whereas the Cardiganshire are any colour except white, and are slightly heavier. The weight of the corgi is from 18 to 25 lbs. The head and contour of body is foxy, but the limbs are of sturdier build than those of the fox. The coat is smooth but harsh Corgis make excellent is smooth but harsh corgis make excellent. workers for sheep and are good tempered and hardy

Coriander Fruit of an umbelliferous plant found in South Europe, Asia Minor and parts of England. The plant has pinkish flowers and its iruit, smooth and globular, is used in medicine, confectionery and liqueurs as a carminative and aromatic factor Its tender leaves and shoots are useful in soups and salads

Corinth City of Greece Situated between the Gulf of Corinth and the Saronic Gulf, it was about 3 m from the sea on which was its harbour. Founded about 1000 B.C., it was a great trading centre and naval power, and famous for its culture. The city's most famous building was the Acrocorinth, or citadel, on a hill 2000 ft high

The rivalry between Athens and Corinth led to the Peloponnesian War in 431. In 146 B c the Romans destroyed the city, but Julius Caesar rebuilt it. Visited by S Paul, and famous for its Christian church, it was wealthy and splendid, but was damaged by barbarian invaders It existed under Byzantine and Turkish rule until destroyed by an earthquake in 1858 A new city, New Corinth, was creeted on the gulf Much excavation work has been done on the site of the old city

The Gulf of Corinth divides the southern part of Greece from the mainland Lepanto, as well as New Corinth stands on it and it is as well as New Corner hands on he and to be sometimes called the Gulf of Lepanto. The Isthmus of Corinth is the narrow strip of land that divides the gulf from the Gulf of Aegina. Its greatest breath is only 8 m, and it is cut he Corner Corner conned in 180? by the Corinth Canal, opened in 1893

Name used in the 18th Corinthian wealth and position who was also a patron of sport. There is a good picture of the Corinthian in Conan Dayle's Rodney Stone

The Corinthian Football Club is a leading

amateur club playing the association game It was founded in 1882 and its members are drawn from the universities and public schools

Corinthians Epistles to the Seventh and eighth books of the NT The Apostle Paul wrote the first from NT The Apostic Paul wrote the first from Ephesus, apparently in A D 57, to the church founded by him at Corinth He reproved factious rivalries, offered counsel on moral questions, rebuked disorders at the eucharist, wrote an imperishable hymn of love, and established the doctrine of the Resurrection The second letter, sent from Philippi in A D 58

Coriolanus Gaius Maroius Roman makes him a Roman who was exiled because of his unpopularity He then joined the Volscians and led their army to attack Rome, but spared the city on account of the entreaties of his wife and his mother On his return to the Volscian capital he was killed

Cork Evergreen oak of the Mediterranean in Spain, Portugal and parts of France, and the bark is very useful as it is impervious, compressible and elastic. The trees can be stripped aware 10 years or so for about 150 years. The overy 10 years or so for about 150 years. The first stripping produces the virgin cork, useful for tanning Later strippings are done carefully with curved knives. The cork is then boiled or steamed, scraped and pressed before being cut into chests.

Cork County of the Irish Free State In the south of the country and the province of Munster, it covers 2890 sq m The coast is indented and includes Bantry Bay

province of Munster, it covers 2890 sq m
The coast is indented and includes Bantry Bay
and the harbours of Cork and Kinsale Much
of the arca is mountainous, but the soil is very
fertile and the country is noted for its dairy
produce Oats, potatoes and barley are also
grown Cork is the chief town, other places
are Formoy, Youghal, Bandon, Mallow,
Skibboreen, Clonakilty, Kinsale and Queens
town (Cobh) The chief rivers are the Lee,
the Bandon and the Blackwater The county
is served by the Gt Southern Riys Pop
(1926) 287,257
COrk State, also the capital of the
province of Munster and of the county of
Jork It stands on the Lee, 11 m. from its
entrance into Cork Harbour and on the Gt
Southern Riys It is 186 m from Dublin The
chief buildings are the Anglican and Roman
Catholic cathedrals The city is the market
for the produce of a large district and has a
considerable import and export trade The
city is well provided with quays There are
several public parks and promenades including
the Mardyko Brewing, distilling and bacon
curing are industries and there are some manufactures The chief paper is The Cork Examiner
Race meetings are held regularly The city's
patron saint is S Finbar There were serious Patron saint is S Finbar There were serious disturbances in Cork in 1919 20 Pop (1926)

Cork Harbour is 8 m broad and a mile wide at the entrance The harbour has docks, dry docks and accommodation for liners at Queens town (Cobh) Other places on its shores are Passage West and Middleton

Cork by the family of Boyle Sir Richard Boyle, a Kentish man, was born, Oct 13, 1666, and educated at Cambridge About 1690 he went to Ireland, where he bought the estates of Sir Walter Raleigh, chiefly in County Cork In 1620 he was made an earl, and in 1631 became lord treasurer He helped to crush the Irish rebellion in 1641 42 He died Sept. 15, 1643

The title passed later to John Boyle, who was already Earl of Orrery Since then these two carldoms have been united The earl's eldest son is called Viscount Dungarvan

Cormorant Widespread genus of divaccount is given in Acts x account is given in Acts x toes webbed (Phalacrocorax) Of the 30 Cornell American University at Ithaca, New York, founded in 1865,

expounds the grandeur of the apostolic mission, warns against heathen dangers, and describes his life's martyrdom

Coriolanus Gaius Marcius Roman makes him a Roman who was exiled because of his unpopularity He then joined the office of the outgoing and led their army to attack Rome, but spared the city on account of the entreaties but spared the city on account of the ontreaties to the first proper in the 17th was introduced into Europe in the 17th century

COTH Special sused as foodstuffs It has the special significance of wheat in Great Britain and of maize in North America.

CORN LAWS—Laws dealing with the supply of wheat, oats, barley and other cereals in Great Britain laws were passed early in the supply of wheat, when the former by alleger of the former by alleger. In Great Britain laws were passed early in the 19th century to protect the farmer by placing a duty on imported corn Later this was arranged on a sliding scale, varying with the price obtained at home If the price was low the duty was high, if the price rose the duty fell This policy made bread dear and there was soon an agitation to remove the duties The Anti-Corn Law League worked for this end, and in 1846 Sir Robert Peel abolished the duties as from 1849 For a further 20 years a small registration duty was charged small registration duty was charged
In 1917 a Corn Protection Act fixed minimum

prices for wheat and oats, this being part of the plan to help agriculture and give the agricultural labourer a minimum wage of 25s a week The law was repealed in 1921

Corn (Latin, cornu, a horn) Thickening of the outer layers of skin which in time press upon the sensitive lower part. It is usually caused by friction and pressure of liftiting shoes and can be relieved by saits, hot water, plastering and paring, and cured by removing its cause

Corn Cockle (Agrostemma githago)
pink order A native of Europe and W Asia,
it is perhaps a quasi cultivated variety of
Anatollan origin It has been introduced into
N America. Common in British cornfields,
it is hairy, with much divided leaves and long
stalked, solitary pale purple flowers with woolly
sensis. sepals.

Corncrake (Crex pratensis) Bird of the landrall Essentially migratory, it spends the summer in the Arctic regions and the winter in Africa A timid bird, it only files reluctantly Its plumage is tawny brown, and it utters an unmelodious cry

unmelodious cry

Cornelle Born June 6, 1606, in 1620
his play, Melite, was successfully produced in
Paris His greatness was seen in Le Cid, 1636
and in the four succeeding dramas, Horace,
Cinna, Polyeucte and La Mort de Pompée
His comedy, Le Menteur, was equally successful
He died in Paris, Oct 1, 1684 Cornellie is
regarded as the first of the great French
dramatists, preparing the way for Racine and
Molière Molière

Cornelia Name of a celebrated patrician clan in ancient Rome
Cornella, the mother of the Gracchi was noted for her devotion to and pride in her sons. She was a daughter of Sciplo Africanus. Another Cornella was a wife of Inline Conservation. Another Cornelia was a wife of Julius Caesar

Cornelius Roman centurion of Caesarea by the Apostle Peter into the Christian Church A full

and named after Ezra Cornell, one of the chief subscribers It was opened in 1868 and is for women as well as men Physical training student's residence, and athletics form an important branch of the curriculum Cornell has (1932) 6,056 students

Cornet Brass musical instrument re-sembling the trumpet It is fitted

with pistons, and pitched in B flat

Cornet Former rank of the British army Before 1871 the junior officers of cavalry regiments were known as cornets The Elder Pitt was in his early days "a cornet of horse" In the infantry the corresponding rank was ensign The Boers used the word for officers when the Transvaal and Orange Free States were independent

Cornflour Finely ground Indian corn It is used with boiling milk and sugar for puddings, cakes and sweet suces, and for thickening soups, gravies and enuces

Cornflower Herb of the composite (Contaured cyanus) As developed by gardeners, it is a showy, hardy annual, with double blue, white, pink double plak, terra-cetta or purple flowers. It grows

pink, terra-could to about 2 ft high Cornhill London thoroughfare It runs from the Poultry to Leadenhall prison, and here was the standard used as a measure of distance In Cornhill are the distance churches of S Michael and S Peter

CORNHILL MAGAZINE A journal founded in 1860 by the publisher, George Smith, whose business was then at 65 Cornhill Since 1917 it has been owned by John Murray, Ltd

Cornice Moulded projection crowning or finishing the structure to which In classical architecture specifically the uppermost part of the entablature Gothic cornices sometimes comprise rows of corbels, with or without arched supports to the parapet

Corn Laws Name given to certain Parliamentary Statutes relating to the importation and exportation of corn. In 1773 Burke first introduced a duty on foreign corn, when the home price became high, and in 1815 corn had to be 80s per quarter, before foreign corn could be imported, which covered was a latence. Page tried in which caused great distress Peel tried in 1836 1843 to right matters with a sliding scale, but was converted to Free Trade by Cobden and Bright in 1849, and corn laws were abolished In 1903 a tax of 1s per quarter was imposed and repealed, and then Chamberlain imposed 2s with preferential duty for the shed colonies

Cornucopia Latin word meaning horn of plenty The story goes that it was given by Zeus to the goat Amalthaen who had nursed him It could be filled with wratever its possessor wished

Cornwall County of England In the it is a extreme south-west, peninsula with the sea on three sides It is 15 m long and covers 1356 sq m Much of it is hilly, the highest point being Brown Willy The coast, especially on the north, is extremely the coast, especially on the north, is extremely rurred and in it are many bays and headlands The former include Plymouth Sound and Mount the latter the Lizard and Land's End

short, include the Camel, Fowey, Tamar, Looe, Fal and Lynher Bodmin is the county town and Truro the seat of the bishop Other towns are Launceston, Redruth and Camborne Watering places are Falmouth, Penzance, St. lves and Newquay The county contains also many small towns which once sent members to Parliament, such are Penryn, Grampound and St. Germans Herein, too, are Looe, Helston and Newlyn Tin and china clay are and St. Germans mined, as is some copper Fishing is another industry. Owing to the mild climate, fruit, flowers and vegetables are extensively grown The foliage is almost tropical in its beauty and variety

Cornwall has a distinct life of its own, and at one time had its own language. It is full of traditions of the past and almost every place has its saints and legends. It was the land of King Arthur, and in modern times the scene of the stories of Sir A. Quiller-Couch There are many remains of early man, as well as castles and ruins of later date at Tintagel, Launceston and elsewhere. As the Duchy of Cornwall, its duke being the heir to the throne, it retains some of its old privileges. Pop (1931) 317,951. The county regiment is the Duke of Corn-

wall's Light Infantry This was raised in 1702 and has a long and honourable record, notably during the Great War The regimental depot is at Bodmin where is its war memorial

Cornwall Town and river port of On-traction It is 68 m from Mon-treal near the rapids of the St Lawrence which are avoided by the Cornwall canal It is served by the Canadian Pacific, Canadian National and New York Central Rlys, and from here steamers go along the St Lawrence and the Great Lakes Pop (1931) 11,126

Cornwall Barry Pseudonym of Bryan Waller Procter, English poet and dramatist He was born at Leeds, Nov 21, 1787 In 1821 he produced a tragedy. Mirandola, which was performed at Covent Garden dola, which was performed at coveric datach.
Among his poems are The Flood of Thessaly and
English Songs He died Oct 5, 1874

Cornwall Duke of Title borne by the
Prince of Wales It is given

to him when he is made prince, and with it he becomes the owner of large estates in Cornwall, Devon and London The estates include tin mines and property on and near Dartmoor mines and property on and near Leatmoor The London property is in Kennington and Lambeth The estates are managed by a council of which the prince is president. In 1926 the revenue amounted to £246,000 The first duke, Edward, the Black Prince was created in 1337 As duke the Prince appoints the high sheriff of Cornwall On the accession of the ligh sheriff of Cornwall On the accession of the ligh sheriff of the title bearing. Edward VIII in Jan, 1936, the title became vacent

Cornwallis Earl English title borne family of Cornwallis In 1661, Sir F Cornwallis was made a baron, and in 1753 charles, the 5th baron, was made an earl His son, Charles Cornwallis (1738-1805), was the soldier who was forced to surrender with his troops at Yorktown in 1781 From 1786 to 1793 he was Governor-General of India, and from 1798-1801 Lord Licutenant of Ireland In each country he put down a dangerous rising In 1793 he was made a marquess and he had again become Governor-General of India when he died, Oct. 5, 1805 The marquessate became extinct when his son Charles died in 1823 The carldom passed to a The Selly Islands belong to the county, which kinsman James Cornwallis (1742-1824) Bishop sends five members to Parliament The railways of Lichfield, and became extinct on his son's are the GWR, and the SR The rivers, all death in 1852

gives its name to a famous English hunt. This | pared in masses, form a ficeev wool of great was started in the 17th century and now hunts | absorbency and softness Sterilised cotton wool a district in the counties of Leicester and Rut land It has a long connection with the earls of Lonsdale, and at least three of the earls have been masters.

Cottingham Urban district of Yorkshire (ER), 4 m. from Hull, on the LNE Rly Cottingham, once a market town, is now practically a suburb of Hull Pop (1931) 6182

Cotton White fibrous material clothing the seeds of tropical shrubs of the mallow order (Gossypium) Generally bushy plants from 3 to 6 ft high, their capsular bolls comprise compartments containing from seven

comprise compartments containing from seven to nine seeds each The outer seed coat bears one celled, flattened, twisted tubular hairs Cultivated in pre-Christian times, cotton grows anywhere between 43° N and 33° S Separated from the seed by ginning, the lint, weighing about one third, is compressed hydraulically into bales averaging 500 lb, and as such reaches the cotton mills for conversion that were The seed weighing twice its extent as such reaches the cotton mins for conversion into year. The seed, weighing twice its cotton clothing, contains valuable oil, expressed as an olive oil substitute, or ground into meal for cattle food or fertiliser. The unspinnable fibres, pure cellulose, become paper. Cotton pests include boll weevils, boll worms and fungoid diseases

The spinning and weaving of cotton has long been the staple industry of Lancashire, which provided much of the cotton materials for the

provided much of the cotton materials for the whole world of late, however, it has met with severe competition, especially from India, Japan and other parts of the East

The world's cotton is grown chiefly in the southern states of the USA The world southern states of the USA The world southern is some 27,748,000 bales, of which 14,514,000 come from the States It is grown, too, in Egypt, and also in the Sudan, E Africa and other nears of the British Empire and there and other parts of the British Empire, and there is a British Empire Cotton Growing Association Great Britain has 57,000,000 spindles the rest of the world over 100,000,000 In England the industry possesses strong trade unions of employed and equally strong associations of employers

Cotton Charles English poet ASIAHORA shire man, he was born April 28, 1630, and became a soldier His interests are proved by his Planters' Manual of Fruit Trees, Charles English poet A Stafford 1675, and his supplement on trout fishing to The Compleat Angler of his friend Walton He is famed for his translation of Montaigne He

died Feb, 1687

Cotton Cake Foodstun for cause is obtained by compres sing cotton seeds after the expression of their oil That made from decorticated seeds from which the hulls have been removed, is rich in nitrogenous substances fat and carbohydrates American cotton cake is usually ground into cotton seed meal Qualities containing much waste fibre serve for manure

Cotton Grass (Eriophorum) Genus of porennial, sedgo like herbs Of about 12 species, spread over the porth towns of the sedgo like herbs of about 12 species, spread over the north temperate regions, the common and the sheathing cotton sedges grow in bogs through out Great Britain The former bears tutts of white bristles which can be spun into thread and also used for stuffing pillows

Cotton Wool Purified product of the cotton plant. Hairs of the cotton plant, when cleansed and pre

is valuable in surgery

Couch Grass Perennial grass with stock (Agropyrum repens) With stems growing to 4 th high it is a troublesome weed on arable land Introduced into N America it sometimes serves there for forage The root contains The root contains BURAL It somewhat resembles wheat and is also called quitch grass A maritime ally, A junceum, is a useful binder on sand dunes

Oué Emile French chemist. Born at Troyes, Feb 26, 1857, he became a hemist there He devoted much time to chemist there studying how to cure illnesses by suggestion, his fundamental idea being that, if the patient believes himself to be getting better from an illness he has taken an important step towards that end Cout's ideas met with a good deal of success, and in 1910 he moved to Nancy, where he opened a clinic for their practice He died at Nancy, July 2, 1926

Cougar English spelling of Buffon's name for the American lion, Felis concolor It is now usually known as the puma.

Cough A persistent cough should never be neglected, but its cause should be sought and treated It may be an indication of serious aliments, such as bronchitts, tubercul osis, pneumonia, etc. A cough from "cold on the chest" may be loosened by hot lemon drinks, ipecacuanha, etc. A throat cough will be soothed by glycerine and honey, but the throat condition itself should be seen to (See under THROAT)

Patent cough mixtures should never be given to children nor to sufferers from indi

gestion

COUGHING OF BLOOD —When bright red, frothy blood is coughed up in mouthfuls, consumption, heart disease, or lacoration of the lungs from fractured ribs is indicated Treatment—Send for the doctor at once, and keep the patient on his side with the upper

part of the body raised, maintain the utmost quiet, allow no talking, keep the windows open, give small pieces of ice to suck, lor sen the collar, and place an ice bag on the chest with a thin layer of flannel beneath Give no stimulants, but try to reassure the patient as much as possible

Coulomb Charles Augustin De French physicist. Born at Angoulème Franch 1736, he became a soldler, entering the engineers In 1785 he published the result of his researches describing the torsion balance for verifying electrical and magnetic laws He was appointed to revise the system of weights and measures at the Revolution and in 1802 he became an inspector of education

He died August 23, 1806
His name is preserved in the coulomb, the unit used in describing quantities of electricity and equal to one tenth of the absolute electro

magnetic unit

Coulsdon Village of Surrey It is 15 m from London, on the S Rly Near are Farthing Down and Cane Hill with its asylum Coulsdon is part of the urban district of Purley

m, consultation and concilium, (Latin consilium, Council and counsel Assemblies of persons A sovereign is advised by effective action) selected to advise privy councils and cabinet councils. Associated local government are county, city,

borough, district and parish councils, with education, the hebdomadal council at Oxford, the council of legal education, the medical council and many others. The word was used during and after the Great War for international meetings such as the supreme war council and the council of ambassadors. Today important councils are the council of the League of Nations and the Council of India

Ecclesiastical councils for regulating matters of doctrine and discipline were held at Nicaea (325), Trent (1545-64), the Vatican (1869-70) and elsewhere The free churches have councils on which all the bodies are represented

Councillor Originally an alternative form of counsellor, one who gives counsel or advice. The use of the word has become restricted to the members of a town, county or district council elected by the ratepayers.

Coundon Town of Durham It is 2 m from Bishop Auckland, on the LNE Rly The chief industry is coal mining Pop 6900

Counsel Word used in England for a client King's counsel are barristers who enjoy special privileges

Counsellor Variant of the word councillor Counsellors of state are appointed to carry on the government during the impose or absence of the soven ogn in Dec., 1929 when King George V. was scriously ill, six counsellors of state were appointed to act for him They were the Queen, the Prince of Wales, the Duke of York, the Archbishop of Canterbury, the Prime Minister and the Lord Chancellor.

Count Title of nobility Its Roman and panion or officer of a king It was then used for large landholders and survives in the form comte in France and Italy In Great Britain its equivalent is earl and in Germany graf The wife of an earl is called a countess and the district over which he once ruled a county

Counter In the sense of reckoning a round medallion used formerly in computation, now for keeping count in games Tables for counting money or displaying and handing over goods are counters so are apparatus recording revolutions or piston strokes in cotton factories, mining pumps or motor ears

Counterpoint Art of adding one or more, independently interesting, to a given melodic part Such added part is also styled a counterpoint to the given melody, which is called the canto fermo strict counterpoint requires the melodies to be combined without the use of unprepared discords

Countersign Word, phrase or signal Previously communicated to military guards as the password to be demanded of persons approaching legitimately, it is used to distinguish them from intruders or foes In some armies the countersign is the sentry's response to the password

Countess Title in the British pecrare wives of earls, but some are countesses in their own right. By customary law a Scottish earldom descends to a daughter if there are no sons, an English one only does so it such is laid down in the patent. In 1932 there were six countesses in their own right. See Earl.

Counting House Formerly the partment of a business house where the money taken and disbursed was counted in or counted out. It survives as the title of the department which keeps the ledgers

Count-out Parliamentary term Meetings of the House of Commons or of committees of the house need a quorum of 40 The speaker or chairman may at any time, on request, count the numbers of those present Two minutes are allowed for additional members to assemble, if the second count reveals no quorum the sitting is adjourned

Country Club Modern development ginated in the USA and since the Great War several have been opened in England They usually possess a golf course and facilities for tennis and other outdoor games See Club

Counts Term denoting in textile yarns and sewing thread the relation of weight to length British cotton counts show the number of 840-yd hanks per ib, as marked on sewing thread reels Weaving varns from American and Egyptian cotton range normally from 32'-46' and 42'-62' respectively. Yorkshire woollen yarns count vds per oz. elsewhere drams per 1000 yd skein Metric counts of fibre varns and spun silk reckon on a metre-gramme unit, raw and thrown silk on weight in half-decigrammes of 450-metre skeins

County Division of a country for purposes of local government. It means the country of a count, or in France, of a come The old English word is shire. England was divided into countles after the Norman Conquest and soon there were 40 Wales. Scotland and Ireland were divided later and the word was taken to the United States. Canada and other parts of the Empire. Wales lass 12 counties, Scotland 33, and Ireland 32. Some countles, called counties palatine, had special privileges, Durham and Cheshire, for example

County Council Body of persons established in overy administrative county of England, Wales and Scotland by the Local Government Acts of 1888 and 1889 Each consists of councillors elected by the ratepayers who hold office for three years and of aldermen elected by the councillors for six years

They are empowered to levy rates and to make by-laws They have charge of education and main roads, and in 1930 they took over the duties formerly discharged by the Board of Guardians County councils were set up in Ireland by an Act of 1898

County Court In England and Wales a court of law for the trial of civil cases County courts have nothing to do with the counties In 1846 England and Wales, outside London was divided into districts and in each of these a number of county courts were set up A judge was appointed for each He holds sittings in various towns in his district and hears cases in which £100 or less, is at stake Most of them are cases of debt He can also hear chancery cases in which the amount is not more than £500, and the examination and discharge of bankrupts is under his control

For each court there is a retistrar who hears minor cases, and a high bailiff to supervise the serving of writs, etc. The circuits are num-

bered and the judges are appointed by the Lord Chancellor There is an appeal from their decisions to the high court There are county courts in Northern Ireland

Coupar Angus Burgh of Perthehire Isla, 16 m from Perth, on the LNE Riyer It is a centre for visiting the beautiful district on the borders of Perthshire and Angus Pop (1931) 1883

Coup d'Etat Sudden change of government forcibly Sudden change of cflected by ruler, army or populace French examples occurred when Napoleon I suppressed the Directory, Nov 9, 1799, and Louis Napoleon, Prince President, broke up the National Assembly, Dec 2, 1851 Similar changes have characterised modern revolutions in Brazil, Germany, Portugal, Russia, Serbia, Spain and Spanish America

Couperus Louis Marle Anne Dutch novelist. Born at The Hague, Ian 10, 1863, he made his reputation with a novel, Eline Vere Other works fol lowed, the titles under which they have been translated into English being The Fooisteps of Fate, The Mountain of Light, The Constell of and the Mountain of Light, The Comedian and, more important, the four books published as Old People and the Things that Pass, 1819 lie died July 16, 1923

Couplet Two lines of verse, rhymed together and expressing a com plete thought, as

Rebellion in this land shall lose his sway Meeting the check of such another day

Elizabethan dramatists often used the couplet to secure a pointed finish to a long period of blank verse Dryden and Pope composed excellent couplets

Courcelette Village of France It is on the road from Bapaume to Albert and was the scene of fierce fighting during the latter stages of the Battle of the Somme On Sept. 16, 1916, the Canadian treese at the scene of the scene of the Somme On Sept. 16, 1916, the Canadian treese at the scene of the scene o Battle of the Somme On Sopt. 16, 1916, the Canadian troops attacked and took it. It was lost in March, 1918, when the Germans advanced, and not recovered until the following August. There is a memorial here to the Canadian dead

Courier Messenger sent to carry and fotch letters or despatches Postal services were organised by the Persian King Cyrus in the 6th century, BC Augustus and Charlemagne made similar arrangements Royal and diplomatic messages are conveyed by special couriers, called in Great Britain king's or foreign office messengers Profes sional attendants who conduct tourists are called couriers

Courland District of Latvia. It covers is Mitau. It has a coastline on the Guif of Riga and here are its ports, Windau, Libau and others Agriculture and fishing are the chief occupations At the Roformation it began to be ruled by dukes, subject to the Russia seized the land. In 1906 a revolt broke out. out.

Pursuit of hares by grey Coursing hounds It is a very ancient pastime and a popular one in England. In catching and slipper, compete against one another When released they pursue the hare and earn points according to their skill in catching and literally behaviour suitable for a court.

killing it A modern development is the use of the electric hare

There are many coursing clubs, notably that named after Altear, in Lancashire, where the Waterloo Cup is decided every year The controlling body in England is the National Coursing Club Scotland has a club and there and elsewhere The pedigrees of the dogs are in the greyhound stud book See Greyhound RACING

Court word originally meaning a house, came to mean his followers and, as he was the nations judge, was used for the place where law cases were tried. The court means the king and queen and their attendants, and so it Ring and queen and their accordance is described as being whorever they are residing Courts are ceremonies held by the king and queen several times during the London season At these men and women are presented, and Each person must be presented by someone already presented and all must be approved by the Lord Chamberlain

There are several kinds of law courts The

Supreme Court of the United States, the High Court of England, the Court of Session of Scotland, as well as county courts, police courts, courts of record, and others Parliament is the High Court of Parliament The Court of

Arches is an ecclesiastical court.

Courtauld English family Its founder was George Courtauld, an American who began business as a silk thrower at Braintree in Essex The business grew under the direction of his son Samuel and the firm of S Courtauld and Co became known as manufacturers of crepe Samuel Courtauld died March 21, 1881, and his descendants have since controlled the business In the 20th century the firm added artificial silk to its activities, and soon became much the largest producer in the country Known as Courtauld's Ltd, it became a limited company in 1913, and has factories in Manchester, Coventry, Braintree and elsewhere, as well as large interests in the United States and other foreign countries

Court Circular Term used for the daily doings of the king and the other members of the royal family It is prepared by a member of the staff of the lord chamberlain's department and is issued to the press every evening In The Times and other papers it appears at the head of the social news

Courtenay Name of a famous family Of French origin, it took its name from the town of this name A son of Louis VI married the helress of the Courtenays, and from them descended Peter of Courtenay and other rulers of the Latin Empire of Constantinople Another branch of the Courtenays settled in England and one of them married a daughter of the Earl of Devon A later one Hugh Courtenay, became Earl of Devon in 1335 The title is still held by the family, although before its rovival in 1831 it was unused for nearly 300 years More than once the Courtenays married into the royal family William Courtenay, a son of the 2nd Earl of Devon was made Bishop of Hereford in 1370, Bishop of London in 1376 and Arch-bishop of Canterbury in 1381 He died July 31,

Courtesy Politeness civility, considera

COURTESY TITLES are titles which are only used by courtesy, not by right, by members of the families of peers Their holders are not peers, nor do they sit in the House of Lords The eldest son of a duke bears by courtesy his father's second title and the eldest son of a marquess likewise bears his father's second title, carl or viscount, as the case may be Thus, the cldest son of the Duke of Marlborough is the Marquess of Blandford. The other sons and the daughters of a duke or marquess are known as lord or lady before the Christian name and family surname. The eldest son of an earl bears his father s second title viscount or baron, and the daughters use the word lady before the name The younger sons of earls, viscounts and barons and the daughters of viscounts and barons use the word Hon (honourable) before the Christian name

Court Martial Court for trying soldiers, sailors and airmen, both officers and men, for offences incidental to their profession. A court is composed of officers and the procedure is much more direct than in the civil courts. There is no jury and no appeal from the decisions Military courts martial are either regimental, district or general Officers can only be tried by a general court martial, which can inflict sentence of death The others deal with minor offences. The accused can be represented by an officer or a barrister, the prosecution is usually entrusted to another officer. In the army courts martial are controlled by the Judge Advocate-General, in the navy by the Judge Advocate of the Flect. the former also acts for the air force

Courtrai Town of Belgium It is situated from the Lys, 26 m from Ghent It has some buildings reminiscent of the time when it was one of the country's great industrial centres These include the Hotel de Ville, the beliry and the bridge across the river with two massive towers S Margaret's, S Michael's and Notre Dame are the chief

churches The town has some textile manufactures Pop (1931) 38,979

The Battle of Courtral was fought July 11, 1302

The Flemings deteated the French Army and after the battle collected the spurs of the dead knights, 700 in number, and hung them in the church

Cousin Relative who is the son or daughter of an uncle or aunt Such are called first cousins Second cousins are the children of first cousins Cousins once removed are the sons or daughters of a cousin At one time cousin was used in a general sense for any relative more distant than a brother or sister

Coutts Thomas British banker Born Sept 7 1735, he became wealthy and was elected Lord Provost of Edinburgh He went to London and worked for a goldsmith Later he became a partner and the firm became known as Coutts and Co Thomas Coutts known as Coutts and Co Thomas Coutts married Harriot Mellon, the actress She inherited his great wealth and from her it passed to the Baroness Burdett-Coutts He died Feb 24, 1822

Covenant Mutual compact. Agreements, ritual onths, occur in the Bible between men or nations, and between God and His chosen people, the Old and New Covenants being called in Linglish and other versions the Old and New Testaments. The National Covenant of 1581 publishing the Prochetical destribution and the maintaining the Presbyterian doctrine and the

Solomn League and Covenant, 1643, concern the Scottish Covenanters In the Treaty of Versailles, 1919, the covenant created League of Nations

In English law convenants are agreements under seal between two or more covenanters such as a covenant to keep a house in repair or to refrain from starting in business within a certain area Verbal stipulations are not legal covenants, no action for breach lies

Covenanters Name given in Scotland to those who signed the National Covenant to uphold the Presbyterian religion in 1581, and the Solemn League and Covenant of 1643 In 1660, when the In 1660, when Established Church was restored, many of the Covenanters refused to accept its authority and formed congregations of their own These are the Covenanters of history Their meetings the Covenanters of history Their meetings were broken up by soldiers and there was something like civil war in Galloway, their stronghold Directed by John Graham of Claverhouse, the harrying of the Covenanters continued until the fall of the Stuarts in 1688 Galloway is full of memories and stories of the Covenanters

Covent Garden District of London It lies north of the Strand and east of Trafalgar Square In olden times it was the convent garden, the convent being the Abber of Westminster After the monasteries were dissolved it was given to the Earl of Bedford, and the Russells retained it until 1913, when the Duke of Bedford sold it

The principal building on the estate is the market, the chief London market for fruit and vegetables. It was opened in 1661 Near is Covent Garden Theatre, the leading English opera house Twice burned down, the existing building dates from 1858

Coventry City and market town of Warwickshire It is 94 m from London on the LMS Riv From the 12th century to 1661 it had a bishop The bishopric was refounded in 1918 The city is associated with Lady Godiva To send a person to Coventry on the ignore him refers to the head. Coventry, or to ignore him, refers to the harsh way in which prisoners here were treated by the Parliamentarians during the Civil War Inthe 14th century Coventry was one of the richest places in England, and several parliaments were held here, after a period of decline it became in the 19th century a busy manufacturing centre Motor-cars, cycles, sewing machines, watches and artificial silk are among its products and there are engineering works and dyeworks

The chief buildings are the three old churches, called the three spires S Michael's, not the cathedral, S John's and Holy Trinity Tho Guildhall is an interesting old building, the Council House is a modern one Ford's, Bond's and Bablake's are three old hospitals and two gates are remains of the city's fortifications Pop (1931) 167,046

Coventry Earl of English title borne by the family of Coventry since 1697 In 1628 Sir Thomas Coventry, the Lord Keeper, was made a baron. The title passed to his descendants, and in 1697 the 5th baron was made an earl. In 1797 the title passed to another branch of the family, and in 1843 it came to George William Coventry (1838-1930) as the 9th earl He held the title until his death in March, 1930 The earl's seat is Croome Court. Worcester His closest son is called Viscount His eldest son is called Viscount Deerhurst.

Coverdale Miles English divine Born dained in 1514 and joined a religious order in Cambridge He became a Lutheran and went abroad, where he worked at translating the Bible into English This was printed in Zürich and was the first English translation Coverdale then superintended the printing of another translation in Paris and London, and was largely responsible for both the English Bibles associated with the name of Cranmer died in Feb 1568

Coverley Sir Roger de Fictitious Steele He belonged to the club professing to write the Speciator, which appeared every week day for 516 days in 1711-12 Steele contributed 231 and Joseph Addison 274 numbers Addison developed the character into an amiable English gentleman The name denotes also a country dance

Mountainous district in Argyll Bounded by shire. Scotland Loch Long and the Firth of Clyde and by Loch Fyne, it is 40 m long and 14 m broad, and encloses Lochs Esk and Goll It is a favourite holiday resort, containing the town of Duncon

Coward Noel British dramatist Born at Teddington, Dec 16, 1899, he was educated privately In 1910 he first appeared on the stage Later he began to write and in a few years was regarded as one of the foremost of English dramatists Among his plays are The Young Idea Easy Virlue, Home Chat, Strocco, Bitter Sweet, Cavalcade, Words and Music and Theatre Royal.

Cowbane Perennial umbelliferous herb With a poisonous rootstock it is native to the northern hemisphere European Cicuta virosa, common in watery places in Britain, has stout, furrowed stems, much divided leaves and compound many rayed umbels with minute white flowers The American C maculata is the spotted cowbano It is also called the water hemlock

Cowberry Evergreen shrub of the natural order Ericaceae I is a native of N Europe, N America and N the Africa Its stems are wiry and twisted with leathery leaves and pink bell shaped flowers Its berries are red and acid in flavour

Cow Bird American bird which lives on insects, particularly parasite found on cows Its habits resemble those of the cuckoo The females, who are far out numbered by the males, lay their eggs in other birds' nests

Cowbit Village of Lincolnshire It is 3 m church, S Mary's Neur is Cowbit Wash, a stretch of fenland, about 10 m long and a mile wide During the winter it is usually frozen over and races for the skating championships take place on it.

Cowbridge Borough and market town of Glamorganshire An old town, it stands on the River Thaw, 12 m from Cardiff and 169 m from London on the G W Rly Pop (1931) 1018

Cow Catcher Triangular frame and attachen to milway locomotives to remove animals and other obstacles from the track Cowdenbeath Burgh of Fiteshire It is 23 m from Edinburgh on the L M.S. Rly Coal mining is the chief industry Pop (1931) 12 731

Cowdray Viscount English title borne weetman Dickinson Pearson was born July 15, English title borne 1856, and entered business at an early age He was soon at the head of the firm of 8 Pearson & Son, which undertook large con tracts in England and S America. He was Liberal M P for Colchester, 1895 1910, being made a baron on his retirement. He had been a baronet since 1894 In 1917, when he was a baronet since 1094 In 1511, was made a chairman of the air board, he was made a Viscount. He died May 1, 1927

Viscount. He died may 1, 1921
Cowdray was succeeded as 2nd viscount by his son Westman Harold Miller Pearson (1882 1933), who had been Liberal MP for the Eye division of Suffolk, 1906 18 The third viscount, son of the last named, succeeded in 1933

Cowen Joseph English journalist and politician Born July 9, 1831, at Blaydon on Tyne, in 1874 he succeeded his father as MP for Newcastle He combined advanced democratic opinions with a belief in atvanced definition of the state of the stat

English Cowen Sir Frederic Hymen conductor and composer He was born at Kingston, Jamaica, Jan 28, 1862, and came to England at the age of four He studied music in London and Leipzig The success of his first symphony and piano concerto in London in 1869 began his career as a prolific and popular composer Cowen has composed music of every kind and has con ducted the principal British orchestras He was knighted in 1911 He died Oct. 8, 1935

Cowes Seaport and urban district of the Isle of Wight It stands on the Medina River, which divides it into two parts, East and West, and is on the S Rly It is 92 m from London and has regular steamer services with Portsmouth Cowes is the headquarters of the Royal Yacht Squadron and its regatta, held every August, is the chief event in the yachting world Its industries include ship building, and it has become a centre of the aircraft industry Pop (1931) 10,179

East Cowes is a separate urban district. Pop

(1931) 4595

Monastic garment fastened behind Cowl Monastic garment fastened behind the neck and capable of being drawn over the head or thrown back. The term also denotes chimney coverings turning with the wind to regulate the smoke the coverings of soil pipes and ventilating shafts and aero-engine metal casings

District of Oxford It is separated Cowley District of Oxford 1t is separated by Cowley Marsh from the villages of Church Cowley and Temple Cowley, Here are the which are outside the city extensive motor works erected by Sir W Morris An interesting building is the Chapel of Bartholomew's Hospital, once a home for lepers

The COWLEY FATHERS or the Society of S John the Evangelist is a missionar, order in the Church of England Founded in 1865, its headquarters are at Cowley its London house at 22 Great College St., Westminster, and it has branches abroad

poot and Cowley Abraham English poot and Born in 1618 in London, he was educated at Westminster School and Trinity College Cambridge In 1656 he became a doctor of medicine He died at

his love poems, The Misiress, and in 1656 his Pindaric Odes His treatise, A Proposition for the Advancement of Experimental Philosophy, led to the formation of the Royal Society

Cow Parsnip (Heracleum) Blennial herb of the umbelliferous order It is native to the north temperate zone. The British species, H. sphondylum, has stout, hollow stems, with broadly sheathed stalks to the leaves Large compound umbels bear white or pink flowers and round, flattened seeds

Cowper Earl English title borne from 1718 to 1905 by the family of Cowper The founder of the family was Sir Cowper The founder of the family was Sir William Cowper, a Kentish baronet, whose son, another William Cowper, became an MP and in 1705 was made Lord Keeper In 1706 he was created a baron, and in 1707 he became the first Lord Chancellor of Great Britain He remained in office until 1710 and was again Lord Chancellor, 1714-18 In 1718 he was made an earl and he died Oct 10, 1723

The 5th earl married a duratter of Lord Mel-

The 5th earl married a daughter of Lord Melbourne. He died in 1837 and his widow married Lord Palmerston The earl left two sons, the Lord Paimerston The earl left two sons, the elder became the 6th earl and the vounger was the politician, W F Cowper-Temple Francis Thomas, the 7th earl, was Lord Lieutenant of Ireland, 1880 82 The earldom became extinct on his death, but his baronles passed to his nephew, Auberon T Herbert, who became Baron Lucas and inherited his seat, Panslunger in Hertfordship. hanger, in Hertfordshire

Cowper William English poet. He was Great Berkhampsted, Nov 15, 1731, he became a barrister For a time (1763-65) he was an inmate of an asylum at St. Albans and his recovery was never complete He lived at Huntingdon with the Unwin family and then at Olney, where he became intimate with Rey John Newton Later he received a pension from the State and his last years were passed at Weston and East Dereham where he died April 25, 1800

Cowper's literary work began with the hymns he wrote with Newton Mrs. Unwin persuaded him to write poems to occupy his tormented mind and a volume of them appeared in 1782 Another friend, Lady Austen told him the story of John Gilpin, the subject of one of his most popular poems, and influenced him to write his greatest work, The Task. Nearly all his poems are marked by deep religious feeling and in them is a genuine love of nature.

Cowper Temple Clause
Clause in the Education Act of 1870 It
permitted parents to withdraw their children
from school during religious instruction, if they
wished to do so It was named after W F
Cowper-Temple later Lord Mount-Temple wished to do so It was named after W Cowper-Temple, later Lord Mount-Temple

Shell of a univalve molluse of the cowry family Cypraeidae There are about 200 species One (cypaera moneta) is abundant in the Indian and Pacific Oceans and is used for mone, and decoration in parts of Asia and Africa The cowry was an object of veneration in the Aegean Islands, about 2000 nc, and then used in trading It was used for the same purpose in China.

Cowslip Perennial herb of the primrose native to Europe and W. Asia. and is widespread in Britain, but rare in Scotland It bears and in Britain, but rare in Scotland It bears with huffstelked umbels of drooping flowers with buff-

wrote Poetical Blossoms In 1647 he published vellow funnel-shaped corolla, and is thus distinguished from the yellow primrose, intermediate form is called the oxlin

Cox David English painter Born in Birmingham, April 29, 1783, he began his career by painting scenes for the theat es He died June 7, 1859 Cox painted both in oils and water colours, and some of his best works were done when on tour in N Wales He produced a great number of sketches and some are in the Victoria and Albert Museum, London

Coyote N American prairie welf (canis latrans) Ranging from Canada to Guatemala, it is smaller than the gray or timber welf, with a hairier coat and a bushier tail Its length averages 40 in It burrows in the plains, hunting jack rabbits and chipmunks

Coypu S American aquatic rodent the largest members of the order, being about 2 ft long Its stiff, harsh fur is now used under the name nutria for women's fur garments

Crab Popular name for all stalk-eyed, ten-footed, short-tailed crustaceans They are distinguished from the long-tailed sub-order, are distinguished from the long-tailed sub-order, such as lobsters, by having the abdomen, or tail, tucked under the thorax. The first pair of limbs have pincer-like claws, the others have joints permitting progression sideways. The common European edible crab is Cancer pagurus, the American Atlantic blue crab Callinactes hastatus, is called the soft-shelled crab when moulting Hermit crabs live in discarded molluscan shells, sometimes in the tropics for inland

Crab Apple Small tree of the rose order A native of Europe and W Asia (Pyrus malus), its few pink-tinged white flowers bear vellow fruit, acrid in taste, but used in jellies and preserves. It is an ancestor of the cultivated varieties of apple

Crabbe George English poet. Born at 1754 took up surgery, but abandoned it. With the publication of The Library, 1781, Crabbe's worst days were over He was ordained and became chaplain to the Duke of Rutland at Belvoir In 1783 he married his old love, Sarah Belvoir in 1783 ne marrieu nis oid 1894, Baran Elmy Leaving Belvoir in 1785, he held various livings, and in 1813 became Rector of Trowbridge There he died Feb 3, 1832

Besides The Library Crabbe's poems include The Village, 1783, The Newspaper, 1785, Tales, 1812, and Tales of the Hall, 1819 They show his sympathy with poverty and want, as

show his sympathy with poverty and want, as well as his love of nature.

Cracow Former republic of Europe It was created in 1815 and consisted of the city of Cracow and its suburbs. The Poles, for whom it was made, regarded it as too small and after two risings it was suppressed in 1846. It then became, as it had been before 1815, part of Austria.

Cracow City of Poland. It stands on the Vistula, 186 m from Wareaw and is a railway junction. It has many interesting buildings, some dating from the time when it was the country's capital. Among these are the cathedral, where the kings were crowned, and the castle, now a national museum. The cloth hall is one of several museums. The university dates from 1364

Cracow was the capital of Poland from about 1300 to 1610

From 1846 to 1918 it was an about 1300 to 1610.

an Austrian city, as it had been from the partition of Poland to 1815 Owing to its situation it has long been a fortress, and since

1919 the Poles have made it a military centre It was attacked by the Russians in Dec., 1914, but the attack failed Pop (1931) 221,260

Cradley Heath District of Stafford shire It is in the Black Country, 121 m from London and 10 from Birmingham, on the GW Rly The making of chains is the principal industry Pop 10,400

Cradock Town of Cape Province S Africa It stands on the Fish River, 180 m by railway from Port Elizabeth It is a business centre and has a town hall, and several churches, as well as a hospital, training college and public park Pop 7000

Cradock Sir Christopher George Francis Maurice British sailor A Yorkshireman, he was born July 2, 1862 and entered the navy in 1876 He was in the Sudan in 1881 and with the naval brigade in China in 1900 He was knighted in 1912 When the Great War broke out he was sent with a small squadron to S American waters On Nov 1 1914, this was destroyed by the Gormans and Cradock was among the killed, going down in his fingship, the Good Hope

Craig son of Ellen Terry, he was born In 16, 1872, and educated at Bradfield College and in Germany He acted under Henry Irving and then became a producer and made his reputation by improving the stage and its scenery In 1913 he made his home in Florence where he founded a school for studying the art of the theatre, and issued a paper The Mask. His ideas are set out in The Art of the Theatre, 1913, The Theatre Advancing 1921, Theatre, 1913, and A Production, 1930 His Life of Irving appeared in 1930, and his tribute to Ellen Terry—the Actress and the Mother in 1932

Craigavon Viscount. Irish statesman Born Jan 8, 1871, James Craig had a successful business career in 1906 He served in the S African War and the Great War In 1916 he was made Treasurer of the Household, in 1919 Secretary to the Ministry of Pensions, in 1920, Financial Secretary to the Admiralty He left British politics to lead the Ulster Unionists and in 1921 became the first prime minister of N Ireland Made a baronet in 1918 and a viscount in 1927, he was still Prime Minister in 1936

Craigmyle Baron Scottish lawyer and was born at Dunfermline May 23, 1850, and after a distinguished career at the University of Edinburgh became an advocate In 1892 he entered the House of Commons as Liberal M P for the Hawlek district, and in 1894 95 he was Solicitor General for Scotland In 1905 he was made Lord Advocate, but in 1909 he left politics to become a Lord of Appeal and a life peer as Lord Shaw of Dunfermline He retired in 1929 when he was made an ordinary peer as Baron Craigmyle, the name of his Aberdeenshire home His writings include Letters to Isabel Darnley & Historic and Lecester & Historic (1931)

His son, Alexander Shaw (born 1888) was in Parliament as a Liberal from 1915 to 1923 He then became prominent in the shipping world, becoming a director of the P and O and in 1927 President of the Chamber of Shipping He is also a director of the Bank of England

In 1932 he succeeded his father in law, the Farl of Inchcape, as head of the P and O

Craik Mrs English novelist Dinah Maria Mulock was born at Stoke on Trent, April 29, 1826 After writing various stories for children, she published her first novel, The Oritres, in 1849 This was followed by others, including Olive, The Head of the Family and Agatha's Husband, but the publication of John Halifax, Gentleman, in 1856, established her reputation Other writings included Sermons out of Church, essays, Juvenile fiction, and a collection of poems In 1864 she became the wife of Mr G L Craik, a partner in the publishing firm of Macmillan and Co She died at Shortlands, Kent, Oct. 12, 1887

Crake Various species of short-billed stout bodied birds of the rail family The spotted crake, Porzana porzana, breeds throughout Britain, laying red spotted greenish brown eggs in nests among the reeds Two other species, the Little Crake and Baillon's Crake, are rare stragglers from N Africa, where all crakes winter See CORNORAKE

Cramlington Urban district of 10 m from Newcastle on the LNE Rly Coal mining is the chief industry The New castle Aero Club has an aerodrome here Pop (1931) 8238

Cramp Painful spasmodic muscular contraction Usually occurring in the legs, it is caused by stomachic derangement, rheumatism, cold, fatigue and pregnancy

legs, it is caused by stomachic derangement, rheumatism, cold, fatigue and pregnancy
Stretch the muscles affected as much as possible in a contrary direction, and rub the part vigorously with the hand or with a rough towel If this falls, apply external heat as well Sufferers from cramp should be very careful when sea-bathing, as a sudden attack is often dangerous to life Since the condition is usually of rheumatic origin, exposure to damp and chill should be avoided

For long it was believed that cramp could

For long it was believed that cramp could be cured by touching a cramp ring, a ring which had been blessed by the king Edward the Confessor had such a ring It was brought from Jerusalem and was given by him to the Abbot of Westminster Each Good Friday until Mary's reign, the English sovereigns blessed and distributed cramp rings to the

people

Cran

Measure by which herrings are sold

It consists of 37½ imporial gallons
and usually about 750 fish. It is the usual
measure in Scotland, and must be used in those
ports in England and Wales to which the Cran
Measures Act of 1908 applies

Cranberry (Oxycoccus) Genus of creeping evergreen shrubs of the
heath order They are native to the north
temperate regions The European O palustris
common in British peat bogs, has rose-coloured
flowers bearing dark red berries they are
exported from Sweden The larger American
O macrocarpus, cultivated in Massachusetts
and Now Jersey, is exported to Great Britain
and Europe

Cranborne village of Dorget In the north is 37 m from Dorchestor There is a fine old church The manor house is the property of the Marquess of Sallsbury, whose eldest son is called Viscount Cranborne

Cranborne Chase which has now disappeared, was at one time one of the largest forests in

England

Cranbrook
Town of Kent. It stands There is a public school for 360 boys, founded in london, on the S Rly There is a fine parish Cranbook Thomas English prelate church with a detached baptistery and an old grammar school At one time Cranbrook was a centre of the cloth manufacture and there is in the town an old building called the cloth

The title of Earl of Cranbrook has been borne since 1892 by the family of Gathorne Hardy Gathorne-Hardy (1814-1906), son of a wealthy ironmaster, entered Parliament as a Conservative in 1856 He was Home Secretary in 1867, Secretary for War, 1874-78, Secretary for India, 1878-80, and Lord President of the Council 1885 and 1886-92 In 1878 be was made a viscount, and in 1892 an earl He died Oct 30, 1906, and was succeeded by his son In 1915 the title came to John David Gathorne-Hardy as 4th carl

Crane Family of birds They are found everywhere except in S America With long needs and short tails, they utter trumpeting calls in flight and at rest. European grus cinerca was formerly bred in Fugland, but is now a rarity. The white crane winters in India Two African species are crested. The birds appear to walk on stilts, so long and slender are their legs.

Crane Machine for lifting weights They are rotary, non-rotary fixed or locomotive, and may be actuated by hand or worked by steam, hydraulic, pneumatic or electric power They may comprise jibs movable on central pivots, depositing weights at any point within range Bridge granes, or at any point within range Bridge cranes, or horizontal girders bearing travelling carriages, are supported on wheeled trucks

Crane Walter English artist. Born in Liverpool, Aug 15, 1845, he was the son of Thomas Crane, a portrait painter He studied art and made his name by the illustrations, imaginative in a distinctive way which he dr.w for books Some of these were written by himself, one being The Baby s Opera He also painted, and his "Renascence of Venus" is in the Tate Gallery, London. A keen craftsman, Crane became associated with William Morris, designed decorations for the home and helped to found the Arts and Crafts Society In 1892 he was made Art Director at Manchester, and in 1898 principal of the Royal College of Art at South Kensington In later life he became an active Socialist, and he died at Horsham, March 14, 1915

Crane's Bill Popular name of eleven Species of gerantum Natives of Britain, they are distributed Natives of Britain, they are distributed throughout the north temperate regions. They are distinguishable from the pelargonium in having regular flowers and no spurred sepals, and from the three British species of stork's-bill crodium, in having ten, instead of five, fertile stamens

Craniometry Measurement of skulls especially in man and conjunction with other especially in man and parts of the skeleton, craniometric statistics are important for studying ancient and modern racial types and relationships, as well as the

Clanmer Thomas English prelate hamshire, July 2, 1489, he was educated at Jesus College, Cambridge In 1509 he attracted the notice of Henry VIII by suggesting the case of his marriage. be referred to the universities of Europe 1533 he was made Archibishop of Canterbury. He did all that the king required in securing his successive divorces and marriages, and in rejecting the authority of the Pope, at the same time he was instrumental in the burning of heretics and in introducing into England the ideas of the reformers

During the reign of Edward VI Cranmer introduced the two praver books and made other changes With Mary's accession in 1553 his power ended He had favoured the cause of Lady Jane Grey, but his hostile attitude towards the queen's mother was also remembered He was accused of treason, sentenced to death and hursed March 21 1556 tenced to death and burned, March 21, 1556

Cranmere Pool Small sheet of water of in the centre of Dartmoor Reputed to be the lonellest spot in England, it can be reached from Chagford In dry seasons it almost disappears. The River Dart rises here

ranwell Village of Lincolnshire It is m from Sleaford and has an old and interesting church During the Great War there was an aerodrome here, and the cadet college of the Royal Air Force was founded here in 1920

Crape (French crepe, from Latin crepus, Silk gauzy fabric of crimped appearance The soft Oriental crape, either white or coloured, is used for trimmings and shawls It is made of raw silk (silk in the rum) with a twisted west When boiled the rum is freed and the west untwists This gives the wave or crimp

rashaw Richard English poet at Charterhouse and Cambridge He went to France, became a Roman Catholic and died in Crashaw wrote poems both in Latin and English, the latter in a volume called Steps to the Temple

Crassus Marcus Licinius Roman general and statesman He was sur named Dives, from the wealth acquired by Sulla's favour and the proscriptions. He vas consul with Pompey, and in 60, with him and Caesar, he formed the so-called first triumvirate. In 54 B c he obtained the province of Syria, and was appointed to conduct a campaign against the Parthians In 53 he was completely defeated in Mesopotamia by the Parthian generals, and treacherously murdered

Basin-shaped orifice of a volcanic duct. It is so called because of its to a cup Through it erupted resemblance to a cup material reaches the surface In some instances ancient craters have been filled with water, forming crater lakes That of the dormant Mexican Popocatepetl, 17,900 ft high, is 2000 ft. by 1300 ft., and 1700 ft deep

Crank In mechanics, a bent or vertical arm attached to or projecting from an axis for changing rectilinear, reciprocating mollon into rotary motion

Cranleigh Town of Surrey It is 36 m from London on the S Rly.

Cravat Kind of neckerchief worn by men In the 17th century Louis XIV of France had a regiment of cravats in his sorvice These men were scarves of a peculiar shape These scarves, made of linen or muslin, became fashionable in France and then in lingland Later the word was used for any kind of neckerchief

Craven District of Yorkshire In the West Riding, it is a moorland area around Skipton, where there is a Craven Hune in The Craven Hunt is in Berkshire

The title of Earl of Craven has been borne

The time of Earl of Craven has been borne since 1633, except during the years 1697 to 1801, by the family of Craven Sir William Craven won some roputation by the services he rendered to Elizabeth, Queen of Bohemia, the daughter of James I. In 1633 he was made the daughter of James 1 In 1055 he was made an earl, but the title became extinct on his death, April 9, 1697 The barony, however, created in 1627, passed to a relation In 1801 William, the 7th baron, was made an earl The earl's seat is Coombe Abbey, Warwickshire, and his eldest son is called Viscount Uffington Elizabeth, wife of the 6th Baron Craven, was

a lady of note Born in 1750, a daughter of the Earl of Berkeley, she married Lord Craven in 1767, and after his death a German margrave She wrote some plays and acted in one or two of them Sho died at Naples, Jan 13, 1828, leaving some Memoirs

Craven Arms Village of Shropshire It is 182 m from London The lines of the LMS and GW from Rivs meet here

Earl of Scottish title borne by the family of Lindsay Crawtord Sir David Lindsay, who married a daughter of Robert II, was made earl in 1398 Most of the first 22 earls took some part, often a prominent one, in the affairs of Scotland In 1808 on the death of the 22nd of scottand in 1808 on the death of the 22nd of carl, the title was unused for 40 years, but in 1848 it was given by the House of Lords to James Lindsay, Earl of Balcarres, a title dating from 1651 He and his successors have been known as Earls of Crawford and Balcarres

In 1913 David Alexander Lindsay became 27th Earl of Crawford and 9th Earl of Balcarres As Lord Balcarres he had been a Unionist M P since 1895, and between then and 1922 he was Lord Privy Seal, Chancellor of the Duchy, First Commissioner of Works and Minister of Transport He is known also as a writer on art. The earl ranks as the premier earl of Scotland His seat is Haigh Hall, Wigan, and his eldest son is called Lord Balniel

Crawford Francis Marion American novolist. Born in Italy, Aug 2 1864, the son of an American sculptor, Thomas Crawford (1814-57), he was educated at Concord, Cambridge and Heidelberg His first novel was Mr Isaacs, 1882, and other successes were A Roman Singer, 1884, Saracinesca, 1887, Marzio's Crucifix 1887 A Cigarctic Maker & Romance, 1890, The Raistones, 1895, and The Heart of Rome, 1903 He died at Sorrento April 9, 1809

Crawley Town of Sussex It is 7 m from Horsham and 31 from London on the S Rly It is a noted stopping place on the road from London to Brighton and its inn, the George, is one of the most famous in England Pop 4400

Another Crawley is a village of Hampshire It is 5 m from Winchester and is famous as the original of the Open's Crawley of

as the original of the Queen's Crawley of l'antly Fair Crawley Court is the principal

residence There is an old church and the Dower House is a picturesque building Cray River of Kent A tributary of the Darent, it is 8 m. long It gives its name to a series of Kentish villages, now residential suburbs of London They are Foots

Cray, St Paul Cray, and St Mary Cray

Crayfish Name of several long tailed freshwater crustaceans allied to lobsters Those of the northern and southern hemispheres represent different families The British astacus pallipes is long, greenish brown above and yellowish brown beneath. They are night feeders, burrowing under stone during the day The larger A fluvialitis, extending from France to Russia, is the most esteemed for the table

Crayford Town of Kent It stands on the S Rly There is a beautiful old church Here in 467 Hengist and Horsa defeated the Britons in a battle in which Horsa was slain

Pop 6200

Cream Rich surface of milk which has been allowed to stand for a time Its chief constituents are water and butter fat. It can be raised by standing the milk in shallow vessels, or by the use of separators It abounds n vitamins and is therefore highly nutritious DEVONSHIRE CREAM, or clotted cream, is

prepared in a special way, so as to cause the fat to rise quickly and completely. It may contain as much as 75 per cent. of fat, but has much

less sugar than ordinary cream, making it suitable for sufferers from diabetes

In 1929 an Act was passed making it necessary to mark artificial cream when offered for sale in order that it should not be confused with natural cream. In 1931 the courts decided that the fillings of cakes, not made from dairy cream, may lawfully be described as cream, as to such foods the Act does not apply

Cream of Tartar Acid tartrate of expressed by the formula KHC,H,O, A deposit of argol, it is used in the making of ginger beer and baking powder

ginger beer and baking powder

Creasy historian. Born at Bexley, Sept.
12, 1812, he was educated at Eton and King's
College, Cambridge In 1830 he became a
barrister and in 1840 Professor of Modern
History in the University of London He died
Jan. 27, 1878 Creasy is known by his book,
Fifteen Decisive Battles of the World, first
published in 1861

Crêche Institution whereworking mothers
and others may leave little
children The first crèche was instituted in
Paris in 1844 and was so successful in checking

Paris in 1844 and was so successful in checking infantile mortality and disease that other towns, Gorman, English, and French, established similar nurseries Some are conducted by local authorities others by churches and

philanthropic agoncies

Crécy Village of France in the departville The wooded district called the Forest of Creey is famous for the battle fought on Aug 26 1346, between the English and the French Fdward III, and his son, the Black Prince, were attacked by the French, whose repeated assaults falled The losses were heavy, but the exact totals are unknown The story of the fight is told by Froissart

Credence (Lat credentia, a sideboard)
In churches a small table
placed near the altar It is used for the versels

that hold the water and other accessories for use at the celebration of the Mass or Holy Communion

Generally, a reliance on the truth Credit or good faith of a statement or deed Commercially the word is applied to the time given for payment of money owed, and its use has widened to connote that system of borrowing and lending which depends upon the lender's faith in the borrower's honesty, and is the basis of modern commerce Credit and is the basis of mough the use of credit instruments, eg, cheques, bills and notes, which pass from hand to hand for value, and facilitate trade

Credit banks are banks which exist to advance money to suitable clients, often on the security

of agricultural produce

Crediton Market town and urban district of Devonshire It stands on the Creedy, 8 m from Exeter and 179 from London, on the S Rly. For a short time in the 11th century it was the seat of a bishop, and it now gives its name to a suffragan bishop in the Diocese of Exeter Pop (1931) 3490

Cree Canadian-Indian tribe of Algonkin stock Formerly ranging the forests of Athabasca, and the prairies of Saskatchewan, they are now peaceable fur traders, with much white admixture, especially in Saskatchewan They number under 18,000

Creed Concise expression of a religious faith The chief creed of Christendom is the Apostles' Creed which is accepted by the Roman, Greek and Anglican Churches Nicene, also accepted by some churches, is an claboration of the Apostics' Creed Both are is an in the Anglican Praver Book and the Apostics' Creed is said at both morning and evening praver The Athanasian Creed, less generally accepted, but also in the Praver Book, was the work of S Athanasius

Crefeld Town of Germany It stands near the Rhine, 32 m from Cologne Its importance dates from the 17th when religious persecution drove to it Calvinists from Berg and Julich who intro-duced the manufacture of linen With the introduction from Holland of the silk industry With the in the next century, the town rapidly became prosperous, and it is now famous for its sill; and velvet manufactures It also produces a great quantity of engineering products and chemicals Crefeld is an important railway junction Pop (1930) 159,000

Creighton Mandell English Carlisle English prelate 1843, he was educated at Durham School and at Merton College, Oxford After working as a tutor at Oxford, he became, in 1875, Vicar of Embleton, Northumberland, and there he becam to write his History of the Papacy In 1855 he went to Cambridge as Professor of Ecclesiastical History, and in 1886 he became editor of the English Historical Review In 1891 Creletion was made Rishop of Peters July 5 1891 Creighton was made Bishop of Peter-borough, and in 1897 was transferred to London He remained there until his death, Jan 14, 1901 Creighton was one of the most prominent prelates of the day His fame rests, however, upon his History of the Papacy during the Reformation and afterwards, altogether eleven volumes, his Queen Elizabeth and other writings. His Life and Letters appeared in 1904

Cremation Burning of human corpses It was practised by many ancient peoples in with

Asia and Europe, but was forbidden by the Christian Church owing to the belief in the resurrection of the body In the 19th century it was revived in Europe, and in 1874 a cremation society was formed in England Sir Henry Thompson did a good deal to discover a satisfactory method of disposing of dead a satisfactory method of disposing of dead bodies, and in 1885 the first cremation took place at Woking Before a body can be cremated, two medical certificates must be obtained and other formalities complied with.

obtained and other formalities computed with CREMATORIA, or places for burning the bodies, have been erected at Woking, Golder's Green, Illord, Norwood, Manchester, Leicester, Ipswich, Glasgow, Sheffield, Leeds, Hull and other places There are many crematoria in Germany, the United States and other countries About 40,000 bodies have been cremated in Great Britain Attached to a crematorium is a colombarium where the ashes, having been placed in urns, are kept

Cremona City of Italy It stands on the Po, 55 m from Milan, and is famous for its cathedral which has beautiful internal decoration, and a marble front. Near are the baptistory and a bell tower, nearly 400 ft high Some of the city's fortifications still

thich Some of the city's fortheredous sime stand Pop (1931), 60,634
Cremona was the home of the great violin makers, Amati and Stradivarius, and violins made here are sometimes called cremonas

Cremorne Gardens Former pleasure resort. It was at Chelsea and was named after Viscount Cremorne who owned it In 1845 it was sold and made a public resort, which it remained until 1877

Creole Term used in the W indies and the neighbouring mainland for the descendants of white immigrants, who have been born in the country, but not for Term used in the W Indies and immigrants themselves Creoles are chiefly of French, British, Spanish or Portuguese descent, and are found in the W. Indies, Louisiana, Mexico and elsewhere In some places the descendants of negroes are called Creoles

Product derived from the distillation of wood, coal, and shale The wood tar creosote of commerce is obtained from beechwood Its principal constituents are gualcol and creosol Wood tar creosote is medicinally useful in bronchial complaints and for the relief of toothache Creosote Oil, used to preserve timber, is that

part of coal tar distillate which bolls between 200° and 300° C

Trescent The waving or waving moon The popularity of the crescent as a symbol, as on Bronze Age personal ornaments, arose partly from lunar association, partly from its resemblance to the cow's horns Byzantium adopted the symbol and the Turks used it as a rival emblem to the cross

Crescograph Apparatus devised by Sir J C Bose for recording electrically the response of living matter to various kinds of stimuli It has been used by him for displaying upon a screen, by enormously magnifying small movements, the growth of plant tissues, besides showing the effect of manures in stimulating or retarding growth

Tess Name denoting various saind vege-tables of the cruciferous order Of garden cress, lepidium salirum, introduced from Persia, only the seed leaves are eaten, usually with those of white mustard. Curled or Normandy cress is barbarea praecox, water cress is nasturtium officinale, rock cress is arabis

Cresset (Old French carsse, grease) Cage or bowl of iron containing inflammable burning material. It is either stationary or mounted on a pole for purposes of illumination It is used by watchmen, on docks and in fogs, and in the making of beacons

Crest (Latin crista, a plume or tuft) Comb of a bird, the feather, cone or top of a helmet, or the helmet itself Hence by association crest means the top of anything A heraldic crest is a device to show identity, worn on a knight's helmet. In armorial bearings it is placed on a wreath above the helmet and shield. It is also used as a seal

Cresta Run Artificial snow-covered track at St. Moritz, Switzerland Constructed in 1884, it is reconditioned annually for winter sports About 1350 yds long, its steeper curves are banked up Steel bobsleighs and skeletons are used on

it and it is a famous sporting track

Creswell Crags Caves in Derby shire, famous for their antiquarian remains They are about 9 m from Chesterfield. In them implements used by primitive man and some of his drawings have been found Excavations here were begun in 1924, and in 1930 31 important remains of early man were found in the Pin Hole cave

Town of Victoria, Australia Creswick 10 m from Ballarat and 96 It is the centre of an agri from Melbourne cultural and mining district Pop 2400

Cretaceous Geological system of rocks forming the uppermost of the Mesozoic division, and so called from its most important member, the chalk formation These rocks are divided into two sections, the Upper and Lower Cretaceous The lower series, or Neocomian, consists of the Wealden, a group of sands and clays, and the Lower Greensand of yellow, crey or greenish sands with ironstone bands The Upper Cretaceous consists of the gault, a stiff blue clay the upper greensand and the chalk.

Crete Island of the Mediterranean, also called Candia At the south end of the Aegean Sea it covers 3120 sq m It is long and narrow, being 165 m in length, and the interior is mountainous, Ida being one of its peaks In the valleys fruit is grown and cattle are reared Candia, the capital, and Canea, both on the north coast, are the chief towns

Suda Bay is the best harbour Crete is famous as the home of one of the oldest and most elaborate of the world's civilisations Earlier than 2000 B c the people were living in a state of order and comfort and had attained a high degree of artistic Cretan civilisation achievement. is called achievement. Cretan civilisation is called Minoan, after Minos, one of the kings, and is usually divided into three periods—carly (3000 to 2200 n c), middle (2200 B c to 1600 B c), and late (1600 to 1100 B c). The chief centre of this Cretan civilisation was Cnossus, and here, as elsewhere, much excavating work has been done since about 1900.

This civilisation declined when the cities of

This civilisation declined when the cities of Greece rose to importance Later Crote formed part of the Roman Empire and then belonged to Venice, in 1669 it was taken by the Turks, who retained it until 1913, when it was given to Greece This was the result of a long struggle against Turkish misrule. The people speak a

Greek dialect Pop 336 000

disease Cretinism Chronic disease affecting mental and physical develop affecting ment in childhood It is due to absent, imperfectly developed, or diseased thyroid gland including the enlarged condition producing gottre The result is stunted growth mental capacity inferior to that of normal young children, and life seldom exceeding 30 years Good results have attended treatment with thyroid gland extracts and iodine salts

Creusot Town of France also called Le on a rich coalfield and near the Canal du Centre Great armament works were established here by Adolphe and Eugène Schneider in 1836 and they provided the French armies with much material in the Crimean, Franco Prussian and especially the Great War The original ironworks have developed into works producing arms and armaments of all kinds, for the navy as well as for the army, as well as motor cars, locomotives and machin ery for electrical and engineering plants Pop 30,000

revasse Fissure or crack In glaciers deep chasms may form in the ice substance when traversing uneven beds The open top may be concealed by ice or snow bridges, mountain climbers should always be roped to at least one companion when tra

versing glaciers

Crewe Borough and market town of Cheshire It is 158 m from London, on the L MS Rly The chief buildings are the town hall, school of art, technical school and several churches. The modern school and several churches. The modern Crewe Hall, formerly a seat of the Marquess of Crewe, is near Here are the great railway repair shops and locomotive works of the London Midland and Scottish Railway, on which system Crewe is an important junction. Pop (1931) 46,061

Crewe Marquess of English and diplomatist, English title borne Robert Officy Ashburton Crewe Milnes Born in London, Jan 12, 1856, the son of Lord Houghton he was educated at Harrow and Trinity College, Cambridge In 1885 he became Lord Houghton and as a Liberal was Lord Lieutenant of Ireland, 1892 96, when he was made Earl of Crewe In 1905 he became was made Earl of Crewo In 1905 he became Lord President of the Council, and in 1908 leader of the Government in the House of Lords From 1908 10 he was Colonial Secretary and from 1910-15 Indian Secretary in 1915 16 he was again Lord President, but he left office in Dec, 1916 In 1917 he was chairman of the London County Council and from 1922 28 ambassador in Paris In 1911 he was made a marquess and he married, as his second wife, Lord Rosebery's younger daughter eldest son is the Earl of Madeley Lord Lord Crewe, a graceful writer and something of a poet, wrote the biography of his father in law

Crewkerne Market town and urban district of Somerset, 7 m from Yeovil, on the S Rly The chief from Yeovil, on the S Rly The chief buildings are the beautiful church and the old grammar school

Tom English puglist. Born July 8, 1781, he settled in London in 1794 Cribb and soon became a noted fighter. In a sories of fights he beat James Belcher and other leading puglists and in 1809 won the champion ship of England. He kept the title until his death at Woolwich, May 11, 1848

Cribbage Card game which may be played by two or more people

ix cards are dealt to each player, two h hand being set aside for the crib t is to make pairs, fifteens, sequences, The cards are laid down one b face upwards and when thirty-one reached, or all the cards laid down, s are counted, and scores are marked 3 of pegs in holes on a board.

ieth Urban district and watering place of Caernaryonshire, beauuated on an opening off Cardigan Bay, mountains behind it. It is 4 m from Pop (1931) 1449

ton James Scholar, known as the Admirable Crichton The son t Crichton, Lord Advocate of Scotland, born Aug 19, 1560 He had great s a linguist, much ability as a vorse nd a prodigious memory His life was pent in France, where he served in and in Italy His scholarship was by his arguments on philosophy and matters. In Paris he is said to have 1 twelve languages He was killed in brawl at Mantua, July 3, 1582

et Family of leaping orthopterous insects allied to grasshoppers chirps by rubbing together the two ngs the hearing organs being in the ritish species are the house cricket, omesticus, field cricket, G campestris, wood cricket, Nemobius sylvestris,

mole cricket Gryllotalpa vulgaris, with adapted for burrowing

adapted for burrowing

cet Outdoor game popular in England Australia and elsewhere ally played by teams of eleven a side elements are bat, ball and wickets, or The wickets, three together, are opposite each other and 22 yds apart, defended by a batsman Engaged in o get these batsmen out are the eleven sof the other side. s of the other side

im of the batsman is to keep the bowler ting his wicket and to hit the ball so can run to the other wicket once or ille it is being chased, or to hit it to ndary and score an agreed number of the hit He can be out by hitting the a fieldsman who catches it before it hed the ground, or allowing the bowler is wicket with it He can also be lis wicket with it He can also be or run out, ie, by being out of his which is marked by a line of whitehen the wicket is hit with the ball also be out for stopping the ball with if the umpire thinks he has broken the so doing

isman stays at the wicket until out wlor bowls six balls and then gives another bowler who bowls from the id The six balls are called an over, if are scored off them it is a maiden over ralia eight balls to an over is the rule a players who are not bowling are standing in various positions One is ket keeper He stands behind the to stop balls missed by the batsman prevent him from making runs, called

hes are decided by the number of runs

those for the county championship The test matches, five in number, are played every two or three years between England and Australia the two countries alternately Matches with 8 Africa are also called test matches The ashes, as the imaginary trophy contested for by England and Australia is called, were won by England in Australia in 1928-29 and

County cricket is played by teams representing most of the English counties Seventeen counties, including one in Wales, Glamorganshire, are first class and these contend for the county championship, which is awarded to the one gaining the most points method of awarding points was introduced in 1930, 15 points being given for a win There is also a championship for the second class counties Professionals take a large part in the game and every year matches are played between teams of amateurs, or gentlemen, and professionals Cricket is played by clubs all over the country, at the universities, by every boys' school, and since the war by an in-creasing number of girls' schools. The governcreasing number of girls' schools The governing body of the game is the Marylebone Cricket Club, called the MCC WG Grace is the greatest name in the history of cricket, but JB Hobbs has beaten some of his records Other great names are Alfred Mvnn, Ranjitsinhij, CB Fry, T Hayward, W Rhodes, GHirst and among bowlers Alfred Shaw, SF Barnes and CBlythe, but many others, including the Australians Trumper and Noble including the Australians, Trumper and Noble, are equally noteworthy
Since 1901 the county champions have been

		Promo Mario Doo
1901 1902 \ Yorkshire	1013 Kent	1925 Yorkshire
1903 Middlesex	1914 Surrey 1915)	1926 1927 Lancashire
1904 Lancashire 1905 Lorkshire	1916 No Contest	1928 ) 1929 Notta
1906 Kent 1907 Notts	1918 / 1919 Yorkshire	1930 Lancashire 1931
1908 Yorkshire	1920)	1932 Yorkshire
1910   Kent	1922	1933 J 1934 Lancashire
1911 Warwick 1912 Norkshire	1923 Yorkshire	1935 Yorkehire

Crickhowell Market town of Breck-from Brecon and stands on the Usk. There is a fine bridge across the Usk, also ruins of a castle. The name means the rock of Howell Pop 1200

Cricklade Market town of Wiltshire, Swindon and 95 m from London It has a fine old church and was at one time a borough sending members to Parliament Pop 1520

Cricklewood District of London, in the urban district of willesden, about 6 m from the city, on the LMS RIT

Crieff Burgh of Perthshire, on the Earn, Rly It is much visited by invalids as the climate is unusually mild Crieff is the chief climate is unusually mild town of the district of Strathearn Pop (1931) 5544

Crimea District of Russia forming a Soviet republic. It is a peninsula on the north side of the Black Sea, a narrow isthmus connecting it with the mainland, and It may be the number of runs It may be the number in a single or it may be the total of two innings and school cricket it is usually the in test matches and county cricket, he matches take three days, it is the chief matches are the test matches and

the Crimea, was fought between Great Britain and France, as allies of Turkey, against Russia Later the allies were joined by Sardinia. In skirts. A wired structure worn beneath the March, 1864, the allied fleets sailed into the Black Sea and bombarded Odessa In Sept Black Sea and bombardod Odessa In Sept an army was landed at Eupatoria and the first battle was fought on the banks of the Aima, where the Pussians tried in vain to stop the allied advance The rest of the campaign consisted in attempts to take the strong fortress of Sevastopol The slege began in Oct., when the fortress was bombarded by land and sea. In Oct. the British made their famous cavalry charges at Balaclava and on Nov 5 their camp at Inkermann was attacked by the Russian army that was assisting to by the Russian army that was assisting to defend Sevastopol The British infantry stood their ground and the attack was beaten back

More terrible, however, was the cold, and with sickness rife among the troops, due partly to mismanagement, the slege was for a time bandoned Reinforcements and medical and nursing assistance were sent out and in April the fortress was again assaulted, but without success, owing partly to lack of unity between

the two commands.

Two other assaults delivered in June also falled but partial success attended one made in August, when the French selzed the formid able Alakhoff works. The Russians then abandoned the fortress which was destroyed by the allies. Other events of the war included the anies. Other events of the war included the bombardment of the Aaland Islands and the destruction of Kimburn a fortress opposite Odessa, by the French Peace was signed March 30, 1856, without advantage to either side The British lost 19 600 in dead, chiefly from disease and privation

Criminal Appeal English court of up in 1907 Before that date a convicted criminal could not appeal against his sentence, but now he can do so The court consists with the court consists and the court consists of the court usually of three judges of the kings bench division, in addition to upsetting the verdict they can increase or reduce the amount of a sentence. In 1926 a similar court was set up sentonce for Scotland

Criminology Study of criminals with them on scientific lines In England criminals were first considered from the humanitarian point of view in the 18th century, but their study began in Italy with Cesare Beccaria in his book On Crimes and Punshments, 1764 More than a century later Cesare Lorphysics More than a century later Cesare Lombroso published The Male Offender another land mark, and since then a great deal has been done Criminals have been classified according to their physical and other characteristics and much chort has been spent in plans to and much enort has been spent in plans to prevent young offenders from becoming habitual criminals. As a result of this study criminals are carefully graded and inducements offered to lead the less vicious to adopt a crimeless life. This has taken the form in Great Britain of special courts for children detention in Borstal institutions instead of in prisons and a careful system of probation. See BORSTAL.

Crinan Sea loch of Scotland A branch of the Sound of Jura it pene trates for about 15 m into the Peninsula of Kintrro From it the Crinan Canel has been cut to Loch Gilp an opening of Loch Frue This canal 9 m. long, was opened in 1801 to save the long journey round the Mull of Kintyre.

skirts. A wired structure worn beneath the gown to widen the garment at the hom was also called a crinoline The name is frequently applied alike to the Elizabethan farthingale, the later hooped petticeat, and to the 19th century bustle with a petticeat four to five yards wide at the hom In millinery a material made of cotton gauze dressed with glue and used for manufacturing hats, is known as expensive. crinoline

Crispi Francesco Italian statesman Born in Sicily Oct 4, 1819 He joined the revolutionary movement of 1848 and was eviled from Italy and then from France Howas a leader in the struggle of 1859 60 and helped Garibaldi to become master of Sicily helped Garibaidi to occome master or signy In 1861 he entered the Chamber of Deputies, in which he sat for 40 years Then a convinced republican, later he altered his views He was prominent in all the movements between 1861 and 1871 and in 1876 was elected President of the Chamber In 1877-78 he was Minister of the Interior, a post to which he roturned early in 1887 Later in 1887 he became Premier, but resigned in 1890 He was again Premier from 1894 until the disaster at Adowa led to his fall in 1896 He died in Naples, Aug 12, 1991

Crispin One of the two patron saints of shoemalers, the other being Crispinan Their festival, which is on Oct. 25, was formerly celebrated with processions in which the shoemakers guilds took a leading part

Criticism Passing judgment, specifically on a literary or artistic work Each age has sought to establish standards of right judgment in literature and the fine arts

Biblical criticism at the Reformation found fruitful fields in comparing textual variants in MSS and considering their authenticity and origination as distinct works. Later criticism origination as distinct works. Later criticism was directed more to the literary contents of the Bible, and the literal accuracy of many of the statements especially in the Old Testa ment, was questioned Traditional beliefs about the authorship of the various books were critically examined, and the result was to cast doubt upon many matters that had hitherto been implicitly accepted as true This work, begun by German and continued by British scholars, was known as the higher criticism and was distinguished from textual or lower criticism

Other forms of criticism are literary and artistic. In both fields there is a great output of writing both in the form of articles in the press and of books William Hazlitt was one of the greatest of English literary critics

Croatia District of Yugo Slavia formerly part of Hungary It is in the north of the country, stretching to the shores of the Adriatic Sca Its capital is Zagrab or Agram. When part of Hungary, it formed with Slavonia a province, sometimes called a king dom which had its own parliament and other privileges The Croats however were nover privileges The Croats nowever were never happy under the rule of the Magyars, even though the vole was a light one They are more akin in race to the Serbs and they agi tated continually for the establishment of a Creative Firedom or for union with Serbla After the Gr at War the province was included in the kingdom of the Serbs, Croats and Slovenes called Yugo Slavia and four and Slovenes called Lugo Slavia and four Creats elt in its legislative council. The total number of Creats is estimated at about

4.000,000 The area of the province of Croatia

Slavonia is 16,200 sq m

Crocket In architecture an ornament placed on the sloping edge of a gable. It often takes the form of curved foliage, but occasionally represents an animal

Crockett Samuel Rutherford Scottish novelist Born Sept 24, 1860, he was educated at Edinburgh and was ordained a minister of the Free Church of Scotland. From 1886 to 1895 he was minister to Positive to Positiv at Penicuik, near Edinburgh In 1893 he made a success with a book of short stories, The Sticket Minister Soon, therefore, he gave up the ministry and produced a number of novels, stories of Scottish life and character, some being historical, which became very popular indeed They include The Lilac Sunbonnet, The Black Douglas and The Raiders He died April 19,

Crocodile Family of large reptiles true crocodiles differ from calmans and alligators by their interlocked upper and lower teeth, the fourth lower tooth usually biting into an upper notch like an exposed tusk, and from garials by their rounder snouts Some have broad, short snouts like alligators, e.g. the Indian mugger, crocodilus palustris, others have narrow, long ones like garials, e.g the estuarine, C porosus, of India and N Australia, and the W African C cataphractus The Nile C niloticus, survives only in its upper waters There are two true crocodiles in America

All the crocodiles are flesh eaters They can swim rapidly, but pass most of their time resting in the water or by its edges The largest, the estuarine crocodile, has been known to be 33 ft long Crocodiles lay their eggs in the sand, where they are covered up until incubated The skin is tanned and used for melting here. for making bags, etc Owing to the nature of their oves, crocodlics seem to weep when they are killing an animal, hence the phrase, crocodile tears

Crocus Genus of hardy perennial horbs of the iris order. They are native to Europe and W Asia The scaly remains of lost season's leaves form a bulb like corn from The which the new leaves and flowers shoot subterranean ovaries are surmounted by longtubed perianths of six petaloid leaves C vernus and C versicolor yield white, purple and striped garden varieties, the yellow blooms are Dutch developments from C aureus. The British C mudiflorus which grows wild in the meadows of the midland counties of England, is bright purple All make beautiful flowers for the garden. C salivus vields safiron

Croesus Last king of Lydia Solon, having been shown his treasure, is reported to have said, "Count no man happy before his death" Deceived by an ambiguous before his death Deceived by an amorganus oracle, Croesus made war upon Cyrus, King of Persia, was defeated near Sardis, and condemned to be burnt alive Remembering Solon's words he cried out 'Solon, Solon, '' and when Cyrus heard the story, he spared his life. The name of Croesus is proverbial for a man of great wealth. He lived in the 6th century B C

Crofter Word meaning an enclosed field and used for those who rent small forms in the highlands and islands of Scotland By law they are defined as the tenants of holdings not more than 20 acres in size and not exceeding £30 a year in rental value

For several reasons, one being the extension

of the amount of land devoted to deer forests. the condition of the crofters became very bad, and in 1883 a commission enquired into their grievances The result was that a permanent commission was set up in 1886 to secure for them fair rents and security of tenure. This applied to 200,000 crofters in the counties of Ross and Cromarty, Cathness, Sutherland, Inverness and Argyll, as well as in the Orkney and Shetland Islands Legislation at a later date was passed to assist them in other ways In 1911 the crofters' commission was replaced by a land court which has power over the whole country

Croker John Wilson Irish writer and Dec. 20, 1780, he was MP from 1807 to 1832, and from 1809 to 1820 Secretary of the Administration of the Administratio He wrote several books and was one of the founders of The Quarterly Review and the Athenaeum Club, but is better known owing to Macaulay's savage attack on his edition of Boswell's Life of Johnson Croker died Aug 10, 1857 He appears as Rigby in Disraeli's Coningsby

Croker Land Name given by Robert E Peary to a region northward of Axel Helberg Island where he thought he saw distant land during his polar expedition, 1906 As, later, Dr Macmillan found fee-fices only at the supposed spot it may have been a mirror. may have been a mirage

Primeval Euro-Cromagnon Man Prime which entered Europe in the upper palaeolithic age The name was given by Paul Broca to five skeletons discovered in 1868 in the Cromagnon grotto at Les Eyzies, Dordogne Others were tound elsewhere Tall and long-headed, they found elsewhere Tall and long-headed, they introduced the Aurignacian civilisation and became part of modern man's direct ancestry

Formerly a county of Scot-Cromarty a stretch of land on Cromarty Firth and partly of pieces scattered throughout Rossshire In 1889 the two counties were united as Ross and Cromarty

Cromarty Firth is a branch of Moray Firth On the east coast of Scotland, it cuts into the land for about 19 m and forms a good harbour

There is an Earldom of Cromarty dating from 1861 Since 1895 the title has been borne by Sibell Lilian Blunt-Mackenzie Her son and heir is known as Viscount Tarbat

Burgh and seaport of Ross Cromarty Cromarty Firth, 20 m from Inverness and has a little shipping Pop (1931) 837

Crome John British artist Called Old School of Painting Born Dec 22 1768, he School of Painting Born Dec 22 1705, ne started life as a coach painter, but in his spare time practised sketching Later he taught drawing His paintings, of which "Mousehold Henth" is in the National Gallery, reveal a sense of atmosphere and a love of nature He died at Norwich, April 22, 1821

Crome's son John Bernay Crome, called

Young Crome (1794-1842), painted pictures in

his father's style

Cromer Urban district and watering place of Norfolk It stands on Cromer Bay, 24 m from Norwich and 140 from London, on the LNE Rly It is beautifully situated on cliffs, which, however, are crumbling, and the attractions include good sands and golf links The parish church is a magnificent building In the neighbourhood are the Garden

of Sleep Felbrigg Woods and other beauty. spots Pop (1931) 4177

Earl of Title held since 1901 \_romer by the family of Baring Evelyn Baring the first earl was born at Cromer Hall Norfolk, Feb 26 1841 In 1877 he was made Commissioner of Debt in Egypt, and from 1880 83 was in India as financial member of the vicerov's council In 1883 he became British agent in Egypt and there he did a great work until his retirement in 1907 He was made a baron in 1892 a viscount in 1899 and an earl in 1901 He wrote Modern Egypt, 1908, and died Jan 29, 1917

His son Rowland Thomas, the 2nd earl (born 1877) was appointed Lord Chamberlain in 1922 Until he succeeded to the title he was

known as Viscount Errington

Cromford Market town of Derbyshire It is 15 m from Derby and 1411 from London on the LAIS RIV It is also served by a canni Here in 1771 Sir Richard Arkwright built his first cotton mill and cotton has since been manufactured here Pop 1823

Cromlech Term applied to certain prehistoric structures In generally denotes a rudely Term applied tο constructed chamber of three or more upright stones capped by a large stone slab Kith Coty House near Aylesford in Kent, is an example of a British cromlech

Crompton Samuel English inventor He was born near Bolton, in Lancashire Dec 3 1753 His family spun wool for their own uce, and, after doing this for some time, Crompton, in 1779 invented a Lancashire Dec 3 1753 rew kind of spinning jenny A combination of the ideas of Hargreaves and Arkwright it was called the mule He died at Bolton, June 26 1827

Oliver English soldier Cromwell Cromwell Ouver English soldier
Born at Huntingdon, April
25, 1599, of good family, he was educated at
the local grammar school and at Sidney
cussex College, Cambridge In 1628 he was
chosen MP for Huntingdon and in 1640 for
Cambridge which he represented also in the Long Parliament

In 1642 he became captain of a troop of horse which he led at Edgehill Next he ruised his Ironsides men from his own district and became a leader on the parliamentary side. He was largely responsible for the victory of Marston Moor, and having organised the new Model Army led it to a great triumph at Naseby. He crushed the Royalists at Preston and elsewhere and signed the warrant

for the execution of Charles I

came his ruthless suppression rebellion in Ireland and his victory at Dunbar The final overthrow of Charles II at Worcester followed In April 1653 he dismissed the Long Pullament and later in the very he was made Lord Protector He ruled I ngland more successfully in his foreign than in his domestic policy until his death Sept 3 domestic policy until his death sept of domestic policy until his death sept 1658, a little while after he had refused to recent the crown He was birded in Westminster Abbey but in 1660 his body was disinterred and hanged at Tyburn

Cromwell left two sons Richard, who became protector, and Henry and four daughters one of whom married Ireton and His male line is extinct then Fleetwood but his female line has many representatives

romwell

Oct 4, 1626, son of Oliver Cromwell, he was educated at Felsted, and in 1654 became was educated at reisted, and in 1004 became an MP He was a member of the council of state in 1657, and in 1658 succeeded his father as Lord Protector In May 1659 he gave up the office and as John Clark went to France About 1680 he returned to England and lived at Cheshunt until his death, July 12, 1712

Cromwell Thomas. English politician He was born about 1485, and practised as a lawver, and this may have led to his acquaintages with Western have led to his acquaintance with Wolsev In 1523 he entered Parliament and as Wol sey's eceretary helped to suppress the smaller monasteries to endow Wolseys colleges at Ipswich and Oxford

On Wolsey's fall Cromwell was for eleven rears Henry VIII's chief adviser He was instrumental in carrying through the measures that finally separated England from Rome and as Vicar General was the chief author of the suppression of the monasteries. To this he owes his nickname of malleus mona chorum, the hammer of the monks Numerous honours and much wealth came to him was Chancellor of the Exchequer and Secretary of State Lord Privy Seal and Lord Great Chamberlain and was created a baron and then Earl of Essex His fall followed the marriage he brought about between Henrand Anne of Cleves Cromwell was charged with high treason and was beheaded, July 28, 1540

Cronje Piet Arnoldus Boer soldier Born about 1840 he became a farmer in the Transvaal In the war against the British in 1881 he was in command of a detachment of Boers and won reputation as soldier. He was in charge of the force sent against the Jameson raiders in 1896 and was a distance of the Trans chosen to command one division of the Trans vaal forces when war broke out in 1899 He led them at the Modder and at Paardeberg where he surrendered He was in St Helena until 1902 and then in the United States but he dled in S Africa Feb 4 1911

Cronos In Greek mythology, one of the Titans the son of Uranus and Ge Crook Urban district of Durham It is 15 m. from Durham, on the L N E Rly Coal mining is the chief industry Pop (1931) 11 690

Crookes Sir William English scientist. 1832, he was trained at the Royal College of Chemistry He became an assistant there, and later in the Radelific Observatory Oxford His original work soon made him known and in 1863 he was elected F P S His researches His researches and discoveries cover a wide field in physics and chemistry, and among his inventions are the Crookes tube a special form of vacuum tube and the radiometer He discovered thallium, enlarged our knowledge of radium and gave attention to the world's wheat supply, and to problems connected with dveing He was also interested in psychiac research He died April 4 1919 Knighted in 1897, he was President of the Royal Society and the British Association and the British and the British Association and in 1910 was given the OM He edited The Chemical News and The Quarterly Journal of Science

Crops Term used for the produce of cultivated plants when gathered for food The cereal crops are wheat rremaize barley and cats in addition there Richard Second Lord maize batley and oats in add. Protector of Lugland Born are crops of rice, fruit and potatoes

Crops are grown in rotation to allow the soil time to recover from the loss of a particular ingredient There are several systems in use, coreals alternating with root crops and vegetables See BARLEY, WHEAT, etc.

Croquet Outdoor game It is played by two or four persons with balls and mallets, each player having a ball and mallet of a distinctive colour, red, blue, rellow or black. The ground should measure 35 yards by 28, and on it, at stated intervals, are six hoops and two posts The aim of each player is to send his own ball and that of his partner, if he has one, through the hoops and to hit the posts in regular order, and to prevent his opponents from so doing The rules of the game are supervised by the Croquet Association, 4 Southampton Row, London, W C, and championship meetings are held annually

Crore Hindu word for 10,000,000 It refers especially to 10,000,000 rupees

Crosby Name of two urban districts in Lancashire Great Crosby is a watering place on the Mersey It is 6 m from Liverpool, on the LMS Rly The chief watering place on the LMS Rly The chief buildings are S Luke's Church and the Merchant Taylors' School This was founded in 1618, and the present buildings creeted in 1878 Pop (1931) 18,283 Little Crosby (1931) 1096

Crosby Hall Famous London building A fine example of Tudor domestic architecture, it stood in Crosby Place, Bishopsgate, where it was built in the 15th century by Sir John Crosby In 1638 it passed to the East India Co, after which it was a meeting house Restored in 1836, in 1910 it was re-creeted at the corner of Cheyne Walk and Danvers St., Chelsea, where it serves as a hall of residence for wonien students

Cross French Cameroons and, flowing into Nigeria, turns south and enters the Gulf of Guinea by an estuary, near Calabar It is over 500 m long The estuary is always navigable.

Two pieces of wood, one fixed crosswise on the other. It was Cross It was used as a gibbet for malefactors and, because Jesus Christ was put to death on one, the

cross became the symbol of the Christian faith
There are several kinds of cross In the There are several kinus of cross in the Greek cross the crossed pieces are of equal length, in the Latin cross, the one used for malefactors, the upright piece is longer than the transverse one S Androw's Cross represents the letter X and S Anthony's the letter T The Celtic cross is the Latin cross with a circle round the head, the Maltese cross has bifurcated limbs cross has bifurcated limbs

Market crosses and preaching crosses were at one time numerous, and crosses are seen in villages and churchyards. The crusaders stimulate the breathing—a hot sponge to the took the cross as their symbol, and it is used throat, immersion in a hot bath (105° F), a in wartime to distinguish the great Red Cross | cold sponge to the chest or head etc. after the cold sponge to the chest or head etc.

It is used in heraldry and as a military distinction, cg, the Victoria Cross, Military Cross, Distinguished Flying Cross, and others

The festival called the Invention of the Cross commemorates the finding of the true cross by S Helena It is held on May 3

Crossbill Name given to a genus of Crowberry Dwarf shrub It grows on are characterised by a peculiar bill, the two in Great Britain Its wiry trailing branches sheaths of which are crossed obliquely This bear leathery leaves rolled into closed tubes

formation enables the birds to extract from fault and fir cones the seeds which are their usual food About the size of a skylark, but of stronger build, the crossbill has a plumage of rich colours, the hen's being of yellowish green and the cock's displaying orange, yellow and crimson feathers

Crossbow Weapon used in the Middle Ages It consisted of a strong wooden stock to which a bow was fixed crosswise The cord of the bow was stretched and fixed in a notch, being released

by a trigger to propel an iron bolt

Cross-Examination Method of questioning witnesses to produce evidence in a court of law Each witness is examined by counsel on behalf of the party for whom he is called, this being the examination in chief He may then be cross-examined by the counsel for the opposing side and finally re examined by his own counsel

ross Fell Mountain of Cumberland One of the highest points of the Pennine Chain, it is 10 m from Penrith,

and 2930 ft in height

Crossword Form of word puzzle introduced into England about 1923 It consists of a series of numbered squares, with clues correspondingly numbered, When rightly solved, the down and across solutions provide words reading downwards and across which completely fill the vacant squares The crossword may take any form, but the most usual contain black squares acting as stops between words, usually arranged in a conventional design Many daily and weekly publications contain a crossword and many regularly offer prizes for solutions Some of these contain ambiguous clues, affording various solutions, which make the solution a matter of luck rather than skill Other crosswords require a high degree of skill and considerable knowledge for their solution

Crouch River of Essex It rises near Brentwood and after a course of It rises near 24 miles enters the North Sea at Foulness estuary is a favourite yachting centre, Burnhamon Crouch being the headquarters There are oyster beds in the river

Crouch End District of London It on the LNE Rly, and mainly in the borough The chief building is Christ of Hornsov Church

Croup This chest complaint, which is accompanied by high temperature and difficulty of breathing, develops very suddenly in young children

Symptoms -The child holds the breath and then breathes in with a typical crowing sound He may then struggle for breath and become livid with dilated pupils

which put the child to bed and keep him warm with a steam kettle in the room

row Name of a family of birds are usually black and found all over the world They include the raven, jackdaw chough, magpie and rook, as well as the booded

Crowberry Dwarf shrub It grows on bogs or moors and is found Its wiry trailing branches

346

Crowborough Village and pleasure resort of Sussex It is 39 m from London and 7 from Tunbridge

Wells, on the S Rly Crowborough Beacon (800 ft. high) com-

mands very fine views

Crowland Town of Lincolnshire It stands on the Welland, 7 m from Peterborough from Peterborough 11 is visited to the argest in England. The ruins include the beliry tower the stella is used as a church There is It is visited for the ruins The north aisle is used as a church. There is an interesting bridge in the centre of the town. Pop 2700

Crown English coin representing five shillings Henry VIII intro duced gold crowns in 1522, Edward VI silver crowns and half-crowns in 1553 Down to the time of Charles II double crowns sometimes appeared in both gold and silver, but since then they have only been coined in silver There are only a few crowns in circulation, but the half crown is a common coin

Crown Headgear worn by kings and queens as a sign of sovereignty, also by emperors and empresses. Usually of precious metals and adorned with precious or presions means and adorned with precions stones, crowns are only worn to-day on ceremonial occasions. The English kings have had crowns since Anglo Saxon days, but all the older ones have perished. The present imperial crown was made for Queen Victoria. The act of placing it on the sovereign's head is called the coronation.

Crown Order of the Name of several orders of chivalry In the British Empire there is the Imperial Order of the Crown of India, for women only, established in 1878, and in Italy, the Order of the Crown of Italy, founded in 1868 Other European orders of this name disappeared in 1919

Officials appointed hy the Colonial Crown Agents Officials appointed by the Colonial Secretary With headquarters in London they act as agents for crown colonies and protec Concerned with the commercial torates and economic interests of the countries they represent, their chief duties are financial, and through them the colonies make purchases

Crown Colony Land acquired by cession or conquest, and without power of self government. The legislation of its crown colonies, which are ruled by governors appointed by the king, aided by councils which include members representative of the colony All enactments what he appeared by the Colonial Secretary. must be approved by the Colonial Secretary

Crown Lands In Great Britain the property of the crown, the remains of the vast estates once owned by the kings In 1707 the sovereign was forbidden to make gifts of crown lands to individuals, which William III and other kings had done freely George III surrendered his interest in the crown lands in return for an annual income from the civil list, and later sovereigns have done the same

The crown lands are now managed by commissioners with offices at 55 Whitehall, London, SW1 They include valuable London property in Regent St and elsewhere In 1930 31 they produced a net income of £1 280 000

The berries, black, purple or red, are eaten, and from them a dye is prepared.

Crown Office Department of the sup reme court of justice in England Its chief official is called the Master of the Crown Office, and its functions include the issue of indictments, writs of habeas corpus, informations and proceedings for attachment.

Crown Prince Title borne in monar the heir to the throne His position is comparable to that of the Prince of Wales.

Crow's Nest Pass through the Rocky Mountains of Canada. It is traversed at a height of 5500 feet by the southern branch of the CPR. The pass crosses great coalfields whose natural gas is of considerable economic worth

Crow's Nest Small platform with an encircling protection on a ship's mast It is used as a position for a look-out man in warships and such vessels as whalers Modern signalling methods have now made the crow's nest unnecessary on many ships

Croxteth Park Lancashire scat of Section It is 6 m from Prescot and 3 from Liverpool

It is 6 m from Prescot and 3 from Liverpool
The house, built early in the 18th century,
stands in a park covoring 960 acres Races
are held in the park
Croydon County borough market town
and airport of Surrey It is
10 m from London by the S Riv The
picturesque hospital, really an almshouse, in
the High St. and the grammar school are
associated with the name of Archishon Witeassociated with the name of Archbishop Whitgitt. For the grammar school new buildings at Haling Park have been creeted Industries include bell founding and engineering Adding ton Hills is one of several open spaces. The borough which sends two members to Parlia ment, includes Norbury, Addiscombe, Selhurst, Thornton Heath and parts of Norwood Croydon is the main English airport and at Waddon are extensive buildings and landing grounds Pop (1931) 233,115
There is a mining centre of this name in

Queensland

Pastoral staff of a bishop or Crozier Pastoral staff of a bishop or archbishop It is shaped like a shepherd's crook Croziers have been used

a shepherd's crook Croziers have been used for hundreds of years and some are beautiful works of art. An example is the staff of William of Wykeham, Bishop of Winchester, in New College, Oxford

Crucible Vessel in which ores are smelted or metals molited or metals molited or in metal refining and in the manufacture of bronze, steel and brass

Crucifix Cross bearing an image of Christ The earliest known crucifix was an insulting Roman caricature Christians did not openly show the cross as an emblem until Constantine s time From the 6th to the 12th centuries crucifixes showed Jesus triumphant and clothed, with four nails in the feet. Later they became more realistic.

Cruden Bay Watering place of Aber from Aberdeen, on the LNE Rly Here are fine golf links

Cruelty Wild infliction of pain on lts prac tice has been considerably curtailed by the increase in humanitarian ideals and by the consequent legislation Owing to the activities of the Royal Society for the Prevention of

Cruelty to Animals, 105 Jermyn St., London, SW 1, various Acts of Parliament have been passed to make the perpetrators of cruelty

liable to prosecution and fine

The National Society for the Prevention of
Cruelty to Children has done similar work on
behalf of children Its offices are 40 Leicester
Square, London, WC 2

Cruft's Abbreviation for Cruft's Great International Dog Show Society Founded in 1884 by Charles Cruft, the show is held in the second week of each February at the Royal Agricultural Hall, Islington, London Prizes are awarded for all classes of dogs

Cruikshank George English artist 27, 1792, his father, Isaac Cruikshank (d. 1811) was known as a caricaturist. The son followed in his father's steps but with greater power and success. He illustrated the works of Fielding and Dickens and Grimm's Farry Siones, and did a great deal of work for magazines such as Bentley's Muscellany. To further the cause of temperance he painted a series called "The Bottle" and a cartoon "The Worship of Bacchus," which are in the National Gallery, London Other works by him are in the British and South Kensington Museums. He died Feb 1, 1878. His brother, Isaac Robert Crulkshank (1789-1856), was also an artist. was known as a caricaturist. The son followed also an artist.

Warship designed primarily for speed To-day all cruisers are Cruiser cruiser speed To-day all cruisers are armoured, and divided into battle cruisers and light cruisers Battle cruisers are battleships, but with rather lighter armour and greater speed than the battleship proper Sucthe Lion, Tiger and the newer Hood Such were Light cruisers are smaller vessels, designed to act as the eyes of the fleet. In the British Navy as the cycs of the nect. In the British Navy they are usually named after towns and counties, eg London and Norfoll. The Washington Treaty of 1922 limited the size of cruisers to 10,000 tons and the Naval Treaty of 1930 provided for a limitation of their number and strength In 1931, excluding battle cruisers, Great Britain had 53 cruisers, Japan 37, the United States 10 and France 16

Crummock Lake of Cumberland It is 7 m from Keswick and is 21 m long

Crusade Military expedition sent out especially those sent out from Europe to recover Palestine for the Christians Palestine was overrun by the Saracens in the 7th century, but Christians were permitted to make pirarimages to the Holy Places at Jerusalem In the 11th century, however, the Turks occupied the country and pilgrims were maltreated

This gave rise to the first crusade which was preached by Peter the Hermit and ordered by Pope Urban II at Clermont in 1095 Some European princes raised an army in 1097 and this, with members of the great military orders, the Templars and the Hospitallers, in its ranks,

took Antioch, Edessa and other places, and in 1099 captured Jerusalem, where a kingdom was set up under Godfrey of Bouillon
In 1147 Edessa was retaken by the Turks and under Louis VII of France, the second crusade went to the Holy Land This was an utter failure. In 1187 Jerusalem was retaken by Saledin and the third crusade was argusted.

1192 in a treaty allowing the pilgrims to visit the Holy Places

There were several other crusades in the 13th century, but they all failed to achieve their object

Crustacea Large division of inverthe body segmented and provided with jointed limbs, the head, however, is fused with some of the thoracic segments. The rest of the body segments are usually divided into two sections, the thorax and abdomen, and the whole animal is covered with a chitinous cuticle which may be hardened by lime salts. The head bears a pair of stalked eyes and appendages, which are either masticatory or sensory

Religious order. Crutched Friars The crutched. or crossed, friars first appeared in the 12th century in Italy and received their rule from Pope Alexander III. in 1169 They were a mendicant order and the name was given thom because they had the sign of the cross on their staves and habits The habit, at first black, was later blue They had several houses in England, one at Colchester and another near the Tower of London, at the place still called Crutched Friars

Crypt Vaulted chamber wholly or partly underground, especially beneath churches Growing out of the confessio or martyr's tomb, it often enshrined other memorials England's largest Norman crypt is Canterbury, the one at S Paul's, London, is coterminous with the surface area In secular buildings, 15th century crypts survive in the guildhalls at London and Coventry

Cryptogamia Old term used to denote the lower division of the plant kingdom, as their reproductive sion of the plant kingdom, as their reproductive processes were thought to be concealed. The term is used still, but in a general sense, for the thallophyta, which include the bacteria, algre and fungi, the bryophyta or mosses and liverworts, and the pteridophyta or ferns, borsetails and clubmosses.

Cryptography Art of secret writing code words or other devices Cryptography was practised among the Greeks and Romans and in more recent times in business and diplomacy With the wide use of telegraphy, ciphers and codes have become of use in reducing the length of messages transmitted

rystal Solid body of regular shape bounded by symmetrically disposed plane surfaces, and possessing definite internal structure and properties. Crystals ariso from solidification of chemical elements or compounds, either by gradual cooling of fused substances, evaporation of their finid solvents, or condensation of sublimated vapour, as snow orystals condense from atmospheric water vapour

Crystal Gazing Practice of staring other clear substance in the hope of inducing hallucinatory visions

Crystallisation Process by which cerpassing to the solid state form crystals or solid regular geometric shapes The molecules of the liquid, when near solidifying point, tend to arrange themselves in some definite pattern or lattice, these lattices being formed of unit by Saladin and the third crusade was organised or minute groups of particles. CrysIn this Richard I. Frederick Barbarossa and tallisation is usually brought about by Philip Augustus of France took part, and it evaporation and cooling of a solution, or by was the most spectrcular of all It ended in cooling a fused substance

Crystallography Study of the geo matter known as crystals. The science involves the consideration of the relation between crystal faces and their axes the measurement of the interfacial angles, the identification of similar faces, and the classification into different grades of symmetry The fundamental laws of crystallography are, first, the constancy of corresponding interfacial angles of crystals of the same substance second, a simple crystals of the same substance second, a simple ratio between the co ordinates of all planes on crystals of the same substance, and third, the definite symmetry of crystals. There are seven systems and 32 sub divisions of crystals, each characterised by its special symmetry

Crystal Palace Pleasure resort at Sydenham, London It was designed by Sir Joseph Paxton and crected in 1854 Constructed of an iron frame erected in 1854 Constructed of an iron frame work filled in with glass, the materials were chiefly furnished from a huge hall set up in Hyde Park for the Great Exhibition in 1851 It has two towers flanking a large hall, and is visible from many parts of the metropolis The grounds, covering 200 acres, are used for dirt track and speed boat racing, festivals of various kinds, firework displays, etc. The Handel festival is held in the great hall. There is a fine arrang also a collection of statuary. Before the organ, also a collection of statuary Before the Great War the final matches for the Association Football Cup were played here became public property in 1920 The palace

Ctesiphon Ancient city of Mesopo tamia (Iraq) Situated on the Tigris, 25 m S E of Bagdad, opposite Seleucia, it become the winter quarters of the Parthian Lings, who captured Sciencia, A D 43 After Roman expeditions against it Ctesiphon with Solucia became the capital of the Sassanian kingdom in A D 226 Chosroes I about 550, built a brick palace of which a huge hall still stands The city was captured by the Arabs in 637 and became a ruin It is now only a village

The Battle of Ctesiphon was fought between the British and the Turks, Nov 22, 1915 The British force, under Sir C Townshend was inadequate in numbers, and ammunition falling short, had to retreat to Kut with a loss of 4500 men, but it inflicted heavy losses on the enemy Ctesiphon was occupied by the British in March, 1917

Island and republic of the West Indies It covers 41,634 sq m Attached to it are other Islands the chief being the Isle of Pines, which cover a further 2530 sq m Havana is the capital and much 2530 sq m Havana is the capital and atthe largest town, others are Santiago, Cama Clarences. Cardenas, Santa Clara, guey, Clenfuegos, Cardenas, Sancti Spiritus and Manzanillo

The island is long and narrow with the Atlantic on one side and the Caribbean on the other The interior is mountainous and the coast contains some fine harbours The main product is sugar, but tobacco is extensively grown Truit is cultivated and much timber grown Fruit is cultivated and much is cut. Iron ore is mined and exported

Cuba was a Spanish possession until 1898, when it became nominally independent The United States looked after its affairs until 1901 when a republican constitution was adopted and the island became independent Owing to unrest in 1906 the United States again interfered and formed a provisional govern apprending to uncertainty and provisional govern apprending to the country again rotained its liberty Congress consists of a Senate of 36 movements

members and a House of Representatives of 126 with a president and a small cabinet Before 1933 members were elected for six years but since then for nine years In 1928 there were constitutional changes and the vote was were constitutional changes and the vote was given to women There were risings in the island in 1931 and 1933, the latter leading to the resignation of the cabinot There is a small army and navy Cuba is a member of the League of Nations Pop (1930) 3,638,174

Cube In geometry, a term for a solid with arithmetic, a cube is a number multiplied by itself twice, thus the cube of 6 is 216

Cubism Form of art originating in the modern French School It is characterised by depicting objects by a rectangular or geometrical treatment of forms According to the Spanish artist, Picasso, 'Cubism is neither the seed nor the ger cubism is neither the seed for the ger mination of a new art, it represents a stage in the development of original pictorial forms." This tendency to geometrical forms is fore shadowed in the famous picture. 'The Rout of San Romano," by Paolo Uccello (1397 1475)

Cubit Ancient measure of length It is equal to the length of the forearm from the elbow to the end of the middle finger and varies from 18 to 22 in in various countries. The old English cubit was 18 in , the Talmudic Hebrew cubit 219 in , while the Egyptian measure varied from 18 24 to 20 64 in Cuckmere River of Sussex It rises near Heathfield and entors the English Channel about 4 m west of Beach; Head At its mouth is Cuckmer Haven

At its mouth is Cuckmore Haven

(Cuculidae) Family of birds of widespread distribution The Luckoo common cuckoo, (cuculus canorus) is one of the earliest spring visitants to the British Isles It has sombre plumage and feeds chiefly on halry caterpillars. Its eggs are laid singly and deposited in the nests of smaller birds such as the hedre sparrow and others. The young cuckoo will often, by superior strength, eject its weaker companions from the nest, thus securing exclusive attention for itself The name cuckoo is taken from the cry of the male bird

The great spotted orested cuckoo of N Africa and the American yellow billed and black billed nest building tree cuckoos are rare visitors to Britain
The curkoo flower is a name sometimes

given to the lady's smock

Cuckoo Pint (Arum maculatum) Familiar British wild flower Found in spring in woods and hedge banks, it has tuberous roots and arrow shaped leaves, often marked with black or dull purple spots The flower stalk bears a large green rolled up leaf which gradually unfolds, dis rolled up leaf which gradually unfolds, dis-closing a purple column with minute flowers round the lower section. The leaf withers, leaving in autumn a spike of scarlet berries. The leaves and berries are poisonous, though a species of starch known as Portland arrowroot was at one time manufactured from the roots

Cuckoo Spit Froth like spume ob servable in summertime on grass and low herbs. It is produced by green plant lice which are the larval forms of several genera of homopterous bugs called froghoppers. The larvae suck out the plant sap render it viscous with secretions and for protective purposes acrate it by abdominal

Male and female flowers are distinct. the ovaries become cucumbers without fertilisation. In Britain it is usually eaten uncooked as a salad, but small ones and also gherkins from the West Indies are pickled

Cud Bolus of hastily-swallowed fodder. It is received temporarily into the first of the four cavities of the stomach of ruminant mammals, such as sheep and oven It is returned at will into the mouth for leisurely mastication, the semi-fluid mass then reaching the true stomach, where it is digested is called chewing the cud

Cudbear Name given to a purplish dye stuff, or colouring matter, obtained from a parmeliaceous lichen (Lecanora tartarca) The lichen is a greyish encrustation found on rocks Formerly used in Scotland for the dyeing of homespun fabrics, it is also prepared in Norway and Sweden for export The name is a corruption of Cuthbert, after Dr Cuthbert Brown, who first brought it into prominence

Cuddesdon Willage of Oxfordshire to the SE Oxford Here is the palace of the Bishops of Oxford, who have lived here since the 17th Other buildings are the church and the college for the training of candidates for ordination

udweed Popular name of several species of composite herbs (Gnaphalium) Of this widespread genus the (Graphatium) Of this widespread genus the commonest British form is G sylvaticum. This is densely cottony, with narrow leaves and small flower heads enclosed by chaffy-coloured scales which usually persist, giving them sometimes the name everlastings. G supnum grows in the Highlands of Scotland, G uliginosum in damp situations

Cudworth Urban district of York-shire (WR), 4 m from Barnsley, on the LMS Rly It is a centre of mining, quarrying and woollen industries l'op (1931) 9380

Cudworth Ralph English philosopher and divine Born at Aller, Somerest, in 1617, he was educated at Emmanuel College, Cambridge, and became a tutor there In 1645 he was made Master of Clare Hall and in 1654 of Christ's College He was also Professor of Hebrew Having been ordained by was made material to the college He ordained, he was made rector of North Cad-bury, Somerset, in 1650, and of Ashwell, Hertfordshire, in 1662 He died July 26, 1688

Cudworth's philosophy, contained in his True Intellectual System of the Universe, 1678, sets out to prove the reality of the divine intelligence and of moral ideas which are accompanied by moral freedom and responsibility

Tapering rod for striking the ball in Cue billiards and bagatelle Usually of seasoned ash, the butt being spliced with heavier wood it is about 57 in long and is tipped with leather

Cuffley Village of Hertfordshire, 13 m comprising slates, sandstones and inferior coal beds found notably in SW England on Sept 3, 1916, a zeppelin, destroyed by Lieut. W L Robinson, fell here It was the first to be brought down in England. Pop 650 Firth of Forth, 7 m from Dunfermline, on the

Cucumber Cultivated trailing herb of the gourd order (Cucumis salivus) Reaching Britain from Holland about 1538, it is raised in glass frames at temperatures over 70°F, or in open air 800 yards with heavy loss on Jan 25, 1915 sée Here the Germans, violently attacking Haig's 1st corps, drove them back for about 800 yards with heavy loss on Jan 25, 1915 There was further fighting for the redoubts and on Feb 1 the Guards recovered the lost ground

Cuirass Body armour protecting the breast and back It consists either of a single piece of metal, back and front, or smaller pieces joined It succeeded the coat of mail in the 14th century and still persists in the uniform of the British Household Cavalry and some foreign regiments

Culdees Monastic order In the 8th century they started in Ireland and the earliest Culdees were hermits Later and the earliest Cuidees were hermits Later they took vows and became an order under a modified Benedictine rule They spread to England and Scotland, where they existed until the 14th century

Culebra Town of Panama It is 15 m

N of the Canal's Pacific end, and became the constructional headquarters and health resort Pop 1020

Cullen Burgh and market town of Banfishire, Scotland A watering place and small fishing port, it is situated at the mouth of the River Cullen, 21 m from Elgm, on the LNE Rly It stands above the sea with a beautifully wooded background surmounted by the Binn Hill, commanding a view of ten counties. view of ten counties Cullen House, built about 1600, has extensive grounds, which are opened to visitors Cullen is the Portlossie of George MacDonald's novel, Malcolm Pop (1931) 1688

Cullercoats Watering place of North-umberland It stands near the mouth of the Tyne, not far from Tynemouth, on the LNE Rly, being connected with Newcastle by an electric service Here Armstrong College, Newcastle, has a marine biological laboratory

Cullinan Largest Diamond known diamond It weighed 3025‡ carats, (1‡ Ibs) and was discovered in 1905 at the Premier Mine in the Transvaal on ground belonging to T Cullinan In 1907 it was presented to King Edward VII It was cut into two stones one, the Star of Africa, being set in the king's sceptre and the other in his crown

Culloden Tract of moorland about 7 m from Inverness Here, on April 16, 1746, British troops under the Duke of Cumberland defeated the Jacobites under Charles Edward and put an end to his hope of recovering the throne Each side was about 8000 strong, the Jacobites having a few French and Irish with them They were utterly routed, about 1000 being killed and many massacred after the battle A cairn marks the site In 1928 the estate, long the property of the Forbes family, was sold In Culloden House The Culloden Papers were found

Culm Jointed stem of plants of the grass order Usually cylindrical and hollow between the joints, it is herbaceous, cg, wheat, occasionally woody, cg, bamboo Calm also describes rocks of Carboniferous age, Jointed stem of plants of the grass comprising slates, sandstones and inferior coal beds found notably in SW England

LNE Rly There are rules of the abbey At one time girdle plates were made here Pop (1931) 495

ter Town of Aberdeenshire, 8 m from Aberdeen, on the LNE The chief industry is the manufacture Culter of paper Pop 5600

Cultivator implement for loosening earth, uproofing weeds or breaking up land All-metal grubbers, introduced about 1820, later acquired vibratory spring actions

Culture of growth of organic beings or their attributes. It may mean tillage of plants for food by regular or intensive culture, production of improved varieties, or artificial growth in a nutrient medium of specific micro organisms for research or preparation of vaccines

In anthropology it denotes a stage of civilisation, in sociology, the improvement of knowledge and outlook effected by education

in the individual mind

Culverin Primitive light cannon made used in ancient wars Culverins varied in weight from 15 to 40 cwts, and propelled shots weighing from 2 to 18 lb each
Culvert Tunnel or subtermnean pipe for

Culvert Tunnel or subterlands the conducting of water under

neath roads, railways or canals

Cumae Ancient town of Campania, Italy The first Greek colony in Italy, it was founded by the Chalcidians of Euboca First taken by the Campanians and then by the Romans it became a municipal town in 339 B C Cumae founded two colonies Neapolis (Naples) and Puteoli (Pozzuoli)

Cumberland County of England It has a long coast line on the Solway Firth and the Irish Sea Landwards it touches Scotland In the north are neaks. of the Pennino range in the south are the mountains of the Lale District, Scafell Holvellyn and Skiddaw the three highest in Lngland in this region, too, are many lakes including Derwentwater, Thirlmere, Bassenth waite Crummock and Wastwater. The river are the Eden Derwent and Lak There is fertile soil in the dales and many sheep are reared on the hills Around Whitehaven is a coalfield and the fisheries are valuable Carlisle is the county town Other places are Whitehaven, Workington Keswick, Maryport, Millom Egremont, Cockermouth and Penrith The railways are the LMS and the LNE railways are the LMS and the LNE Cumberland sends four members to Parliament Its area is 1530 sq m Pop (1931) 262 897

Cumberland Peninsula of Canada It is part of Baffin Land and is surrounded on three sides by Baffin Bay, Davis Strait and Cumberland Sound

Bay, Davis Strait and Cumberland Sound
A river of the United States is called the
Cumberland It is a tributary of the Ohio and
flows through Kentucky and Tonnessee Its
length is 050 m In the same region is the
Cumberland Plateau, one of the main divisions
of the Appalachian Mts A city of Maryland on
the Potomac is also called Cumberland
Pop (90) 37747

Cumberland Duke of English title of the royal family The family of Clifford were earls of Cumberland from 1525 to 1043 Prince Rupert was Duke of Cumberland from 1644 to 1682 and Prince George of Denmark. the husband of Queen Anne, from 1689 to 1708

In 1721 William Augustus (1721-65), a son of George II was made Duke of Cumberland He was the duke who routed the Jacobites at Culloden, and cruelly suppressed the rising He died, Oct 31, 1765 In 1766 Henry Frederick a brother of George III, was made

duke He died childless in 1790
In 1799 the dukedom was revived for Ernest Augustus, a son of George III In 1837 he became King of Hanover and was succeeded by his son, George In 1866 George lost his kingdom and, consequently, his son, Ernest Augustus (1843-1923) was known as the Duke of Cumberland. He married a sigter of Duke of Cumberland He married a sister of Queen Alexandra In 1917, as an enemy prince, he was deprived of his dukedom and he died, Nov 14, 1923

Cumberland Richard English author Born, Feb 19, 1732 he went to Westminster School and Trinity College, Cambridge The most successful of his plays are The West Indian, The Brothers and The Fashionable Lover He died, May 7, 1811 He is Sheridan's Sir Fretful Plagiary

Cumbernauld Town of Dumbar tonshire, a mining district, 16 m from Glasgow, on the L.M.S

Cumbrae of Scotland Great Cumbrae is in the Firth of Clyde between Buto and the mainland and covers about 5 sq m. Little Cumbrae lies to the south part of the county of Bute Both are

Cumbrian Mountains & mountroup in Cumberland and Westmorland They ire the mountains of the Lake District. The highest point is Scafell (3210 ft) Helvellyn is only a little lower The group, which just enters Lancashire, covers about 1000 ∢n m

Cummin Herbaceous annual (cuminum cymnum) of the umbelliferae. It is cultivated in the east and around the Mediterranean for its fruit which contains an It is used in veterinary medicine

Cumnock Name of two towns in Ayr Cumnock shire, Old and New Old Cumnock stands on the Lugar, 34 m from Glasgow and 16 m from Ayr It has some manufactures New Cumnock is 5 m away being 21 m from Kilmarnock and is a coal mining contro Both are on the L MS Riy The burgh is Cumnock and Holmhead Pop (1931) 3653

Cumnor Village of Berkshire It is 4 m from Oxford, on the GW Rly Amy Robsart, the wife of Robert Dudley, Earl of Leicester lived here Cumnor Place has been pulled down but the old church remains Pop 1100
Cunard Sir Samuel English shipowner Cunard Sir Samuel English shipowner Section.

CUNATO Born at Hallfax, Nova Scotia, Nov 21, 1787, the son of an American, he set up in business at Hallfax as the owner of unard some fishing boats. In 1831 he settled in Ingland and in 1839 established a line of hips by tween I iverpool and Boston. In 1878 these lines and another were united as the Cunerform

Cunerform

Cunerform

Cunerd Stramship Co which became one of
the largest in the world, with headquarters in
Liverpool Cunard who was made a baronet
in 1859, died April 28, 1865

Cuneiform

Name given to written
characters which re-emble

a series of wedges or arrow heads, usually seen in Ninevite sculptures Sir Honry Rawlinson 351

deciphered three forms, Babylonian, Median and Persian It contains only two elements—the wedge and the rectangle The cunciform characters are supposed to have been invented by people who used a Ural-Altaic (Turanian) language, differing from the Semitic languages of the Assyrians and Babylonians

Cunningham Allan Soottish poet A Dumfriesshire man, he was born Dec 7, 1784 He wrote for The London Magazine and was the author of several backers. books, including Lires of British Painters, Sculptors and Architects and a Life of Wilkie He is best known by his song A Wet Sheet and He is best known by his song A Wei Sheet and a Flowing Sea He died Oct 30, 1842 One of his sons, Peter (1816 69), compiled a notable Handbook of London.

Cunninghame-Graham Bontine Scottish writer and traveller Born in 1852, he was educated at Harrow and spent some vears as a rancher in Moxico and S America. He de veloped strong Socialistic sympathies and from 1886 92 was MP for North Lanarkshire His books include volumes of short stories, lives of several Spanish adventurers and descriptions of his travels

Cup Drinking vessel Usually like a half-with a handle Cups range from communion challes to the tea cups of the home Ornamental and commemorative cups have served for a century as sports trophles, e.g., America, Ascot, Association, Calcutta and other cups
Another kind of cup is a cool drink It is

made of wine or other beverage and flavoured with fruit or other ingredient, to which ice may be added Sometimes a liqueur is added Claret cup is a popular drink in hot weather

Cupping means drawing blood, as a remedy for various complaints, a special kind of cup being employed for the purpose

Cupar Burgh and county town of Fife-from Edinburgh, on the L N E Rly The town has a trade in corn and linen and other manu-factures Pop (1981) 4596

Cupel Shallow cup shaped vessel made of bone ash It is used in metallurgical assaying for the separation of base metals from gold or silver or other unoxidisable metals

Cupid God of love in classical mythology He is identical with the Eros and Amor of Greek and Latin writers Cupid was the son of Venus (Aphrodite)

Cupola Term used in architecture for a inverted cup at the summit of a building or tower The cupola, or dome, is one of the distinctive features of Byzantine architecture It is also characteristic of the mosque.

Curação Island of the Dutch West Indies Situated in the Caribbean Sea, 40 m from the Venezuelan coast, it covers 212 sq m It raises sugar and tobacco and exports also salt and guano phosphates Willemstad is the capital and St. Anne's Bav is a good harbour Pop (1931), 45 191

The liqueur curação oves its flavour to orange peel, to which rum or brandr is added

orange peel, to which rum or brandy is added

It was first made in Curação

it is obtained the notive principle, curarine, in Norfolk plover, is of another family

the form of a yellowish-brown powder, which, though said to have no physiological action when swallowed, paralyses the muscles if injected beneath the skin

Urassow Game bird found in South nearly as big as turkeys and have black, purple or dark green plumage The crested curassow is the best known They can be tamed

Curator In Roman times the guardian of a person under full age, 1 c, 25 years, who took charge of his property The word is still used in that sense in Scots law It is now chiefly used for the official at the head of a museum, art gallery or similar institution, and also for an official or member of a governing board at a university

Curfew Bell rung throughout Europe to warn people immediately to extinguish fires and lights It was precautionary against fire, as ancient wooden buildings were inflammable, and aided in preventing sedition The curfew is still rung at several places in England

Curia Name denoting one of the 30 divisions of the Roman people They were formed traditionally by Romulus, each having a vote in the comitia Later it was

applied to the senate house
The word was introduced into England where the curia regis, or king's court, became the parent of the modern judicial courts, and especially of the privy council It also designates the curia Romana, the juridical and administrative institutions whereby the Vati can governs the Roman Catholic Church They comprise the congregations of the sacred college, tribunals, chancery, secretariat and so on

Curie Plerre French scientist. Born in Paris, May 15, 1859, he was educated at the Sorbonne He became Professor of Physics at the Sorbonne, and married a Polish lady, Marie Sklodowski, who assisted him in his researches They subjected large quantities of pitchblende to fractionation, quantities of pitchblende to fractionation, and so discovered polonium and radium in 1898. For this they were awarded a Nobel prize in 1903. Curie was interested, also, in electricity, and with his brother, who was Professor of Mineralogy at Montpelier, did valuable work in this field. He was accidentally killed in Parls, April 19, 1906.

Madame Curie succeeded her husband as professor at the Sorbonne. In 1911 she received a Nobel prize for chemistry, and in

ceived a Nobel prize for chemistry, and in 1919 she became Professor of Radiology at Warsaw, where a radium hospital was built in her honour She died on 4th July, 1934

Curius Manius Roman Consul Of Dentatus, from having been born with teeth already grown During his first consulship he ended the Samuite War, and gave restricted citizenship to some Sabine towns Again consul, after defeating Pyrrhus at Bene-ventum, he inaugurated the exhibition of ventum, he inaugurated the exhibition of captive elephants in public triumphs, 275 B c He died in 270 BC

Genus of shore birds of the Curlew ployer family Curara Arrow poison used by the South pared from various plants principally species of Strychnos, and used to some extent in medicine in cases of tetanus and hydrophobia. From it is obtained the active principalle, curarine, in Norfolk plants principalle, curarine, in the south principal principal plants principally species of Scotland and the Liskimo curlew (N borcalis), is a rare straggler. The stone curlew, or it is obtained the active principal. (Numentus)

Curling Game popular in Scotland It is played on the ice with large stones and an implement called a granite for pushing them, usually by four persons a side The aim is to place the stones within three concentric circles as near the centre of the inner one as possible. The field of of the inner one as possible. The field of play is from 32 to 42 yds long, and the stones weigh something under 40 lb

Curragh Tract of land in Kildare, Irish Free State It is about 32 m from Dublin, and covers nearly 10 sq m Race meetings have been held here for 100 years, the beautiful turi being a great attraction

John Philpot. Irish lawyer Curran John Philpot. Irish lawyer
Born at Newmarket Co Cork
July 24, 1750 he went to Trinity College
Dublin. In 1783 he was elected to the Irish House of Commons where he was one of Grattan's ablest followers His reputation rests upon his oratorical efforts on behalf of those taken prisoner in 1798, and upon his speeches against the Union of 1800 From 1806 to 1814 he was Master of the Rolls in Ireland, and he died in London, Oct 14, 1817 One of his daughters was the heroine of Moore's ballad She is Far from the Land

Currant Fruit of various shrubs of the yields cultivated red currents and, in another sariety, white currents R nigrum yields yields cultivated for real R nigrum yields variety, white currants R nigrum yields black currants The American red flowered black currents R sangumeum is a shrubbery plant

Another kind of current is the dried seed

less fruit of a grape grown especially in the Ionian Islands This came originally from hence the name Corinth

Term used for the money Currency country It may consist of coins of gold, silver, bronze or nickel, or may be paper money, of which, since the Great War, a great proportion of the world's currency has been composed. The name currency notes to use the composed of the proportion of the proportion of the world's currency has been composed. is used sometimes for the notes for £1 and 10s issued in Great Britain since the Great War At first issued by the Treasury, since 1928 they have been issued by the Bank of England

Current In electricity, a movement of electrical energy from points of high to points of low potential. It is gal vanic when battery generated, induced when dynamo generated When flowing uniformly in one direction currents are continuous or in one direction currents are continuous of direct (CC or DC) when reversing direction at intervals, alternating (AC) When the to and fre cycle is repeated during a specified time it is periodic the number of cycles per second being the frequency

Current Movement of a fluid in a in a rents, occasioned primarily by the earth s rotation, are affected by differences of density and temperature Every prevalent wind causes oceanic drift ourrents which generate surface stream currents. Thus the Atlantic occasioned primarily by the earth s causes oceanic unit currents which generate surface stream currents. Thus the Atlantic equatorial currents drifted westward by the trade winds, unite in the Gulf of Mexico, creating the Gulf Stream which flows north ward. To assist mariners the British Admiralty publish monthly II ind and Current Charls

Currie Sir Arthur William soldier Born in Canadian Born in Ontario Dec 5, 1875, he became an estate agent at Victoria, British Columbia As an officer in the Can

Europe in 1915, fighting at Ypres in April of that year Later he was appointed to a division In 1917 he became Commander of the Canadian Corps, which he led to the end of the war Knighted in 1917 in 1919 he was made Inspector General of the Canadian Forces, and in 1920 Principal of M'Gill University, Montreal He died in 1933

Currie Sir Donald Scottish shipowner Born in Greenock, Sept. 17, 1825, he became a clerk in a shipping firm there In 1868 he started in business himself, and soon had boats sailing to and from S Africa He called his firm the Castle Line, and later the Union Castle Line, all the ships being named after castles In 1877, Currie was knighted, and in 1880 he became a Liberal He remained in Parliament until 1900, but separated himself from Gladstone, a personal friend, on the home rule question. He died April 13, 1909

Dresser of leather He pre pares tanned hides by soaking.

skiving, shaving, scouring and colouring
The Curriers' Company is a London city
livery company which existed as a guild in
1367, and built a hall in 1516 The present
hall is at 6 London Wall, London, E C

Curry Dish seasoned and made boiled rice. The ingredient The ingredients in clude coriander, cumin, pepper garlio, gingor, coconut, spices, turmeric and tamarind breshly ground daily, it is poured as a mixed sauce on eggs fish and meat Curry is eaten in India and other parts of the East English made curries are ordinary stews flavoured with curry powder

Curtesy In English and Scots law, in his wife s lands after her decease It be comes consummated only after the wife's decease and if, except with gavelkind lands, there has been issue competent to inherit In cases of intestacy the right was unaffected by the Married Women's Property Act, 1882 Similar rules of law exist in France and Germany some of the United States recognise in their own laws tenancy by the courtesy of England

Curtius Marcus Roman legendary hero According to one legend a large gulf opened in the middle of the Forum, guif opened in the middle of the Forum, and, an oracle having declared that it would not be filled up until Rome had thrown her most precious possession into it. Curtius mounted his horse and jumped into the abyes which immediately closed, being after wards called the Lacus Curtius

Curwen John English musician Born at Heckmondwike Yorkshire. Nov 14, 1816, he was trained for the Congregational ministry In 1844 he took charge of a church at Plaistow, was attracted by the tonic sol fa system then in its infancy, and in 1853 helped to found the Tonic Sol fa Association In 1864 he left the ministry and in 1869 became first principal of the Tonic Sol fa College in London He wrote books on music and to publish them set up the business of J Curwen & Son He died May 26, 1880 and was succeeded as principal of the college and head of the business by his son his son

Curzon of Kedleston Marquess. English statesman Born Jan 11, 1859 George Nathaniel Curron was the eldest son of British Columbia As an officer in the Can Lord Scarsdale an Irish peer, whose ancestors adian militia, he commanded a brigade in had lived at Kedleston Derbyshire, for 800 years At Eton as at Balliol College, Oxford, he showed unusal powers, and became a follow of All Souls He spent some time travelling in the East, and his books soon made him an authority on that region In 1886 he entered Parliament as Unionist MP for Southport In 1891-92 he was Under Secretary for India, and in 1895 98 for Foreign Affairs From 1898, when he was made an Irish peer, to 1905 he was Viceroy of India He presided over the Durbar of 1903 and resigned owing to disagreements with Lord Kitchener In 1911 he was made an earl Closely associated with Lloyd George At Eton as at Balliol College, Oxford,

Closely associated with Lloyd George during the Great War, he was Lord Privy Scal, 1915-16, President of the Air Board, 1916, and Lord President of the Council, 1916-19, and from 1919-24 was Secretary for Exercise Affair Medical Council (1918-1919). Foreign Affairs Made a marquess in 1921, he died March 20, 1925 He was Chancellor of the University of Oxford from 1907, and held many other high positions

Curzon was twice married, firstly to Miss Mary Leiter of Chicago and secondly to Mrs Grace Duggan He had three daughters The eldest became Baroness Ravensdale, another, Cynthia, married Sir Oswald Mosley

Custard Apple Fruit of a small W reliculata) Widely cultivated in the tropics, its compact heart shaped, dark-brown berries with quilt like reticulation contain a soft, sweetish reddish-vellow pulp

Custom House Institution set up to collect the duties imposed on imports Its functions also include the declaring of free goods, and the entering and clearing of vessels The London Custom House is at the north end of London Bridge, and there are custom houses at the various sea ports, also at Croydon and other airports

Customs Taxes levied on Imported goods since the reign of Richard I In 1801 there were 1500 specific rates of customs duty, but hundreds of these were cancelled in 1845-46, and in 1860 Gladwere cancelled in 1845-46, and in 1860 Gladstone still further reduced their number Customs duties are levied on many articles imported into Great Britain, some, like those on tobacco and wine, being old duties, while others were introduced when the principle of a general tariff was adopted in 1931-32 Dutiable articles include sugar, tobacco, wines and spirits, the M'Kenna Duties and the safe guarding duties are also customs duties. Their collection is controlled by the Beard of Customs. collection is controlled by the Board of Customs and Excise

Cutch Native state of India It is on the north-west coast of Bombay. The Gulf of Cutch on the south is an arm of the Arabian Sea Cutch covers 7600 sq m Its capital is Bhuj Its ruler, the Maharas, is entitled to a salute of 19 guns Pop. 484,500

The Runn of Cutch is a district to the north of the state In the wet season it is a water area, in the dry season it is a salt-covered desert. It covers 9000 sq m

Cuthbert British saint He was born about 635, and become a shepherd After spending some time at Melrose Abbey and in missionary travel, he became a hermit in Farne, or Holy Isle, and in 685 was made Bishop of Lindisfarne In 687 he went back to Farne where he died on March 20 the same year His body was placed in Durham Cathedral, which is dedicated to him, and his shrine was very popular with pilgrims

Cutler One who deals in cutlery or instruments In England the trade is centred in eating Sheffleld where there is a cutler's company with a master cutler at its head Another Cutlers' Company is one of the London livery companies Its offices are at 4 Warwick companies Warwick Lane. EC4

Single masted sailing vessel Cutter Single masted salling vessel It and jib set to the bowsprit and Cutter yachts are sloop-rigged vessels of considerable draught and slight beam Armed revenue cetters for enforcing customs regulations, especially in the USA, were originally cutter rigged, then schooner-rigged Nowadays steamships are used Ships outters are double banked boats with dipping lug-sails used for shoregoing

Cuttlefish Genus of marine moliuses with internal shell of calcareous bone (sepia) Unlike the eight-armed octopus, they and the squids have two long, additional tentacles with sucker-shod ends and ink-sacs for darkening water as a pro-tection Three species inhabit British waters Southern Asia and the Mediterranean region use cuttlefish and squids for food See CEPHA-

Cutty Sark Sailing ship of the type known as clipper, the most famous of the kind She was built in 1869, and engaged in the Australian wool trade, sailed from Sydney to London in 75 days, a remarkable feat in those days She is now in Falmouth Harbour

Cuvier Georges Name taken by the Name taken by the Georges Léopold Chrétien Frédéric Dagobert, Baron de Cuvier Of Huguenot family, he was born Aug 24, 1769, and educated at Stuttgart In 1795 he was made assistant Professor of Comparative Anatomy at the Jardin des Plantes, Paris Later he was Professor of Natural History at the Collège de France, and in 1803 was made Secretary of the Academy of Sciences In 1819 he was appointed Minister of the Interior He died May 13, 1832 Curier was the greatest anatomist of his time His work, The Animal Kingdom Distributed accord ing to its Organisation was long a standard book

Cuxhaven Seaport of Germany, at the mouth of the Elbe, 70 m from Hamburg, to which it belongs After 1875 it was converted from a village into a scaport, and it has accommodation for the largest vessels 
It was used by the German On Dec 25, 1914, British t Pop 15,000 navy up to 1918 forces bombarded it

Cuzco City of Peru It stands in a small valley 11,400 ft above the sea It has some industries and is connected by railway with La Paz and the coast a great Inca centre, it was taken by the Spaniards in 1533 There are many remains Pop 40,000 of Inca architecture

Cyanamide White crystalline solid (NH.CN), melting at 40°C It forms metallic derivatives, in which the two hydrogen atoms are replaced by an atom of a metal. The chief metallic derivative is calcium crystallic derivative is calcium. cyanamide, which is black, and contains 29 per cent nitrogen which is liberated as ammonia on contact with water This is why it is largely used as a fertiliser as the bacterial soil flora convert the ammonia into the nitrates necessary for plant growth

Cyanic Acid Chemical substance | Substance | It is obtained | by heating cyanuric acid and condensing the acid evolved by a freezing mixture. Its salts are formed when cyanogen gas is led into alkalis. Applied to the skin the acid causes a blister

CYANOGEN is a poisonous gas which has a smell like that of peach kernels. It is obtained by heating dry oyanide of mercury in a tube and collecting the gas cooled over mercury It is easily liquefied and burns with

a blue flame

Cyanide Compound of cyanogen with also a salt of hydrocyanic acid, especially potassium cyanide

In metallurgy, the cyanide process is a method of extracting gold and silver from their ores Devised and patented in 1890, it was developed especially in S Africa The ore, finely ground, is transferred to leaching vats in which an alkaline cyanide in solution forms a cyanogen compound with the precious and the alkali metal, and is afterwards precipitated by zinc turnings, zinc dust, or electrolysis The process, employ ing potassium cyanide, was first confined to the treatment of tailings left after extraction by amalgamation. Nowadays sodium cyanide, even impure calcium oyanide, are largely used, and the process is applied to virgin ore

Cybele Greek nature goddess of fertility in Crete, spread over Greece She was also called Rhea, or the great mother

Cyclades Group of Aegean islands Numbering 24 larger and about 200 smaller islands they form a horse shoe S E of Attics and Euboea The highest land is Mt. Ozia 3290 ft They supply lime stones, marbles, sulphur, obsidian, millstones and clays, Naxos emery is a government monopoly Hermoupolis on Syra is the capital They cover 1040 sq m and belong to Greece

Cycling Riding a bioycle or tricycle whether for pleasure or as a sport Towards the end of the 19th century, when the ordinary bicycle was being developed it was very popular, but now has a formidable rival in the motor cycle The interests of cyclists are looked after by the Cyclist's Touring Club at 3 Craven Hill, London, W 3 For the sport the controlling anthority is the National Cyclists Union, which holds championship meetings Several of the world's cycling meetings Several of the world's cycling records are held by L Vanderstuyft who had done 76 mlles, 504 yds in an hour The record for one mile is 61 t sees with a flying start

Cyclone Atmospheric system in which equal barometric pressures form concentric circles or ovels with the lowest pressure at the centro. The axis is usually inclined. The steepness of gradient governs the strength of wind. Because of terrestrial rotation, cyclone winds move anti-clockwise in the northern hemisphere, but clockwise in the The movement of translation is routhern generally castward.

Cyclopes In Greek fable, one-eyed glants Homer made them shepherds living in Sicily Heslod made them the Titan sons of Heaven and Earth who forged Jove's thunderbolts, Pluto's shield and Neptune's trident, later they worked for Vulcan in Etna.

Cyclops Genus of minute freshwater crustaceans of the copepod order They have enlarged feelers which they use as oars A dark beady spot in front makes them look one-eyed, hence the name, which means olrole-eyed. The female carries two oval egg sacs externally, the larve pass through the nauplius stage. Scores of species inhabit lakes and ditches

Cylinder Solid traced by revolving a rectangle about one of its sides, which form the axis, the adjacent sides forming the circular bases Specifically in a right cylinder, the volume equals the height multiplied by the diameter-squared mul-tiplied by 7854 When hollow, cylinders may serve as gun barrels the chambers in which pistons operate, as in engines and pumps, or the glass barrels of electrical machines Thus we hear of three, four and six cylinder engines They may be rollers, metallic or otherwise, in printing and other machines ancient clay and stone cylinder seals including

Cymbal Musical instrument made of Cymbals are plate Cymbals are plate shaped and of indefinite pitch. They are played in pairs, one being slid against the other More rarely they are clashed together Modern orchestration frequently requires one to be suspended, then struck with a drum stick. This gives an impressive, unique sound Ancient cymbals were much smaller and cup shaped, emitting distinct bell-like notes

Cymbeline British king supposed to have been the son of Cassivelaunus. He was frequently confused Cassivelaunus He was frequently confused with Cunobellnus, a mythical king of the Silurians He was the chief ruler of Britain in fact, he is called by Suctonius king of the British. Augustus, thinking him dangerous, contemplated an invasion of Britain which was stopped by the submission of Cunobellnus The plot of Shakespeare's Cymbeline, taken partly from Holinshed's Chronicles is devoid of historical truth of historical truth

Cymmrodorion Society for preser ving Welsh literature and nationality Established for instructing the ignorant and relieving the distressed in 1751, it ceased in 1781 It was revived for ting the ignorant and relieving the distressed in 1781, it ceased in 1781. It was revived for promoting literary study in 1820 and published two volumes of transactions down to 1813 Reconstituted, largely through Sir Hugh Owen, as the Honourable Society of Cymmrodorion of London in 1877 it publishes annual transactions and ancient MS records The offices are at 64 Chancery Lane, London W C A similar society established in 1792 which published various VISS led to the revival of the national Elsteddiod

Cymry Celtic word used by the Welsh as used to denote the group of languages com

used to denote the group of languages com-prising Welsh Breton and Cornish

Cynics Sect of Greek philoso founded by Antisthenes philosophers cording to them virtue was the only good consisting in avoiding evil and wanting nothing From the cynics sprang the Stoics (qv)

Cypress Genus of evergreen shrubs and trees of the coniferous order. They are natives of S Furope, Asia and A America (Cupressus) The common cypress C sempervices grown in the Mediterraneous region in antiquity, and used for domestic carpentry, musical instruments and mummy cases was regarded as a symbol of the dead

One variety of it, *C fashqiata*, grows like the Lombardy poplar to a height of 90 ft, but in Britain it is seldom over 40 ft. Another, *C horzondals*, has spreading branches resembling

the cedar

Cyprian Saint and martyr He was probably born at Carthage in A D 200 At first a teacher of rhetoric, he was converted to Christianity in 246 and became Bishop of Carthage in 249, when persecution was causing apostasy among timid Christians Cyprian railled and encouraged his flock, and, by his sympathetic understanding of their tears, presurged the return of many lapsed Christoncouraged the return of many lapsed Christ-lans Renewed persecution by Valerian caused first Cyprian's banishment and finally his execution on September 14, 258

Cyprus Island of the Mediterranean Sea Asia Minor and covers 3584 sq miles Nicosia is the capital Other towns are Larnaca, Limasol and Famagusta There are two mountain ranges with a plain between them Fruit and regretables are grown and expertables are grown and experted. and vegetables are grown and exported Other crops are cotton and tobacco. Asbestos and copper are mined sheep and goats are kept There are about 64,000 Turks in the population of 347,959 The others are Cypriotes, who form a Christian church of their own

At an early date Greek and Phoenician colonies were planted in Cyprus It was a Persian possession and then part of the Roman and Byzantine Empires before it passed to Venice From 1571-1878 it was Turkish In 1878 its government was taken over by the British, who annexed the island in 1914 Cyprus is governed by an executive and a legislative council under a governor Of the 24 members of the legislation, 15 are elected In 1930 the inhabitants petitioned Great Britain for independence, and in 1931 there was serious trouble in the island, largely due to religious discord.

Cyrano de Bergerac Savinion romance writer and dramatist. He was born in Paris, March 16th, 1620, and studied with a country priest, and in Paris, He carred to the country priest, and in Paris, He carred to the country priest, and in Paris He carred to the country priest, and in Paris He carred to the country priest, and in Paris He carred to the country priest, and in Paris He carred to the country priest and the paris He carred to the carred to in Paris, March 16th, 1620, and studied with a country priest, and in Paris He served in the army in 1639-40, when he began the exploits for which he is famous, such as his single-handed adventure against 100 enemies He began to write in 1642, mostly classical tragedies, but his most famous works are romances L'Histoire comique des Elais du soleil (1662) and L'Histoire comique des Elais de la lune (1656?) He died in Sept. 1655

Cyrus Names of two rulers of Persia Cyrus, the elder, called the Great, was the founder of the Persian Empire He attacked Croesus, King of Lydia, captured Sardis and took the king prisoner Later he captured Babylon united the Medes and Persians and made Susa his capital In 529 B C, according to Herodotus he was killed by the according to Herodotus, he was killed by the Scythians, according to Xenophon he died peacefully in bed Xenophon's Cyropaedia, purporting to describe the life of Cyrus as an ideal ruler, is really a didactic romance

Cyrus the Younger was a son of Darius Nothus, King of Persia He revolted against his brother, Artaxerxes, and led an army of Greeks from Asia Minor into Persia, where, at the Battle of Cunaxa, he was killed in 401 B C This expedition is the subject of Xenophon's

Anabasis

Cyst Cavity in the body containing fluid It is usually enclosed by a tough fibrous layer Retention cysts, formed by the blockage of ducts through inflammation or disease, may occur in breasts, kidneys, tongue, and the Deputed water or all the proposition of the containing fluid the conta sinews or skin Dermoid cysts, containing sebaceous matter, sometimes develop teath. Dog tapeworms, living as larvae in man, form hydatid cysts

Cytology Study of the structure and functions of cells, the living units of cytoplasm, of which all animals and plants consist It seeks to elucidate the history of cell formation and development, whether concerned with reproduction or growth, and the methods by which cells discharge their generalised or specialised duties. It is of special moment in tracing out the relationships of micro organisms to normal life processes, as well as to the causation and avoidance of See CELL disease

Zech People of Slavic stock mostly inhabiting the western region of Czechoslovakia They form, with Poles, Wends and Slovaks, the western branch of the Slavs and Slovaks, the western branch of the Slavs Apparently migrating westward from the Upper Vistula in the 5th century, their speech became differentiated and was kept alive by John Hus and afterwards by the Moravian Brethren The Czech University, founded at Prague in 1882, has fostered new and virile developments in their literature and culture They number about 8,000,000

Republic of Czechoslovakia Europe consists of five districts in central Europe, before 1919 part of Austria-Hungary are Bohemia, Moravia, Slovakia, part of Silesia and Ruthenia Its area is 54,000 sq m and its population (1930) 14,720,158, most of whom are Crechs and Slovaks Prague is the capital, Brno, Ostrava, Bratislava and Plen are the next largest places The country is very productive Coal and iron are mined The chief crops are sugar beet, potatoes, rye, barley and wheat There are extensive forests Hops are grown and beer is made and exported Other exports are glassware and cotton and woollen goods. The chief ports are Bratislava (Pressburg) on the Danube and Aussig and Teschen on the Elbe, and the country has certain rights in Stettin and Hamburg The railways are mainly owned by the state

Czechoslovakia became a state in Oct, 1918 A national assembly met and Professor T G Masaryk was chosen president The republic was recognised by a treaty of Sept, 1919, and in 1920 a constitution was framed Masaryk remained president until Dec, 1935, when, at the age of 85, he resigned Dr Benes was appointed to succeed him. There is a parliament of two houses, both elected by proportional representation, and to them the ministry is responsible. There is an army of about 150,000 men raised by universal service. The unit of currency is the krone, equal to about 11d

or Cernautzi Czernowitz CZETNOWITZ Rumania, the capital of Bukovina It is 164 miles from Lemberg, and is an important rallway centre During the Great War the city was several times taken and retaken by Russians and Austrians, while from Aug, 1917, to the end of the war it was in German hands Pop 111,122

AB Fish of the flat fish family (Pleuronecies limanda) In habiting British coast waters and brackish estuaries, it is about 12 in long with rough skin, light brown above and white beneath Dabchick Popular name little

grebe (podicepes minor) It has a greenlsh black back and red breast, and dives with its young beneath its wings, or on its back The Caroline, or pied billed dabehick (podilymbus podicepes) is occasionally seen in Britain

D'Abernon Viscount. English diplo matist Edgar Vincent was born at Silinfold, Sussex, Aug 10, 1857, and educated at Eton He began his diplomatic career in Turkey From 1883 80 he was Financial Advisor to the Egyptian Government and from 1889 97 Chairman of the Imperial Ottoman Bank From 1899 to 1906 he was Unionist M P for Excter and in 1914 he was made a baron He was Chairman of the Royal Commission on the resources of the Dominions, and from 1915 20 of the Central Liquor Control Board From 1920 to 1926, when he was made a viscount, D'Abernon was British ambassador in Berlin His Diary appeared in three volumes in 1929 30

Dacca City of Bengal It stands on the Buhrl Ganga in the east of the presidency and is an important centre 1905 to 1912 it was the capital of East Bengal and Assam, a province now abolished It has a number of industries, and here is the university opened in 1921, for Bengal Pop

resity opened in 1921, for Bengai Pop (1931) 138,518

Dace Freshwater fish of the carp family with silvery sides, it is 8 to 9 in in length, and up to 1 lb in weight. It swims in shouls in running streams in France, Germany and southern England, but not in Scotland or

Ireland

Dachshund Breed of dog It is a distorted hound with short crooked legs, and is employed in Germany in badger hunting In Britain it is a favourite domestic dog It has a cylindrical body, about 8 in high at the shoulder, and weighs from 15 to 21 ib The ears are long and pendulous and the tail tapering The dog is rough or smooth haired

Dacia Classical name for the region between the Danube and Car pathians, now part of Rumania and Hungary Long occupied by independent Thracian tribes, it was subdued in AD 107 by Trajan, who created the Roman province of Dacia, separated from Moesia by the Danube Under pressure from the Goths, Aurelian withdrew southwards into Mocsia about A D 275, and formed a new

province, Dacia Aureliani
Dacoits Gangs of armed robbers
India Dacoity was especia Dacoits India Dacoity was especially rife in the 18th century, and also for many years after the annexation of Upper Burma in

1886, but was at length suppressed

Dado In classical architecture, the plane faced portion usually rectangular, of the pedestal between base and cornice Nowadays it is also the lower portion of wall interiors, with or without a separate capping,

when contrasted in material or design with the

wall area above It developed out of the panelled wainscotting which preceded it Daedalus Mythical Athenian sculptor His name personified the most ancient achievements of sculpture and architecture. He is said to have entered the service of Minos, ruler of Crete, and made the labyrinth which housed the Minotaur Displeasing Minos. he was imprisoned, but escaped by making wings for himself and Icarus his son Icarus flew too near the sun and when the wax fastenings melted, he fell into the sea. Daedalus reached Sicily

Daffodil Hardy bulbous plant of various species of narcissus of the amaryllis order They are native to parts of Europe The British lent lily (narcissus pseudo-narcissus), whose solitary nodding flowers have crimped trumpet-shaped coronas, comprises many varieties, including the Tenby daffodil and the robust Spanish daffodil hybridised bundreds Gardeners have varieties, but the daffodil still grows wild in some parts of England

Dagenham Urban district of Essox It is 3 m from Barking and 11 from London, on the north side of the Thames and includes Becontroe Here are the English works of the Ford Motor Co begun in 1928, and docks Pop (1931) 89,365 Urban district of Essex It

Daghestan Soviet republic. Lying west of the Caspian Sea, it was set up in 1921 and covers about 13 500 sq m Its capital is Malchah-Kala. Pop 787,000

Dago Name applied, more or less contemptuously, to Spaniards, Portuguese and Italians in general in the United States Corrupted from the Spanish name Diego, James, it was used primarily of seamen in mixed crews, but has since been extended ashore to the poorer Italian immigrants

Dagon National deity of the Philistines He is referred to in the Old Testament (Judges xvi, 21, 23 I Samuel v. 1), and was worshipped at Ashdod and Gaza Possibly he is identifiable with Dagan or

Babylonian god of agriculture

Jacques Louis Mandé Daguerre French inventor jointly with J N Niepce of the daguerrcotype, and thus a ploneer of the art of photography Born at Cormellles, Nov 18, 1789, he took to operatic scene painting and opened a diorand in Paris in 1822 Collaborating with Niepce, 1829 33 he continued after the latter s death to elaborate the process which bears his name and which was communicated to the Academy of Sciences through Arago in 1830, actually 11 days after the publication of the Talbot

Dahlia Genus of herbaceous bahlia Genus of herbaceous composite order Genus of herbaceous plants In 1781 specimens were brought to Europe from Mexico and cultivated by Dahl, a Swedish botanist whence its name One species I variabilis with Jellow discs and dull scarlet rays, has Jielded most garden varieties Cultivated single debites desire from D. comments and contractions.

French colony in W'Africa boundary, it runs from the coast northward to other French colonies Westward lies Its coastline is only 70 m a is 41.302 sq m Porto French Togoland long, the total area is 41,302 sq m Porto Novo is the capital The chief products are coconuts, kola nuts, oil palms and cotton Roads and railways have been made The kingdom was annexed by France in 1894 Pop (1931) 1,134,247

Dail Eireann House of the legislature of the Irish Free State.
The name was given by Sinn Fein members of parliament to the assembly they set up in Dublin in 1919. When the Irish Free State was created by treaty in 1922 the name was given to the Chamber of Deputies which with Seepand Ligrann or Senate constitutes. the Seanad Lireann, or Senate, constitutes the state legislature It has a speaker, deput speaker and clerk of the House It consists of 153 members, elected by the constituencies of the Free State

Gottlieb German engineer Born March 19, 1834, he Daimler was responsible for some of the inventions that have made the modern motor car and its engine possible, and a well-known make of car is named after him He also helped to invent the Otto gas engine Daimler died March 6, 1900

Dairen Seaport of Manchuria It stands on the Liaotung peninsula 20 m E-N-E of Port Arthur It has a good harbour and is the terminus of the S Manchurian Rly, which has its headquarters here—It was handed over to Japan in 1905, and has since been the capital of the territory of Kwantung The port does a considerable trade Pop 282,665

Dairy Place for collecting milk and pre-paring butter and cheese In England dairving is supervised by a dairy commissioner under the Minister of Agriculture The British Dairy Farmers' Association, founded in 1876, holds annual shows, and promoted a world dairy congress in 1928 Its Aylesbury school became the British Dairy Institute which, with the National Darry Research Institute, is associated with Reading Research Institute, is associated with Reading University Dairy science studies the physio-logy of milk secretion, bacterial organisms, the food value of forage plants and the improvement of cattle
DAIRYING AS A CAREER—See Agri-

CULTURE

Dais Platform, particularly the one on which a table stands. In the dining halls of the colleges at Oxford, Cambridge and the Inns of Court, one table, called the high table, stands on a dais.

Daisy (Bellis perennis) Genus of hardy herbaceous perennial plants of the composite order They are native to Britain and most parts of Europe Cultivated garden varieties produce pink, red, and white giant double blooms Marguerites, or ox-eve daisies, are chrisanthemum leucanthemum, while the soare chrisanthemum leucanthemum while the so-called Michaelmas daisies belong to the aster family

Dakota Name of two states of the United States north and couth Both are in the north central part of the country, and are acticultural areas with a good deal of mountainous land Each was admitted as a state in 1889, and each sends to senators state in 1889, and each sends to senators and three representatives to Congress North Dalota covers 70 837 sq m, and South Dalota covers 70 837 sq m, and South Dalota 77,615 sq m Bismarck is the capital head and smooth, glossy white coat with

of N Dakota, which has a population (1930) of 680,845 Pierre is the capital of S D which has (1930) 692,849 inhabitants Dalota. Dakotas are a branch of the Sioux Indians

Dalai Lama Chief pope of Lamaism, prevalent in Tibet and Mongolia Its hierprevalent in Tibet and Mongolia Its hierarchy has two heads One is called Dalai Lama, and lives at Potala, a hill near Lhasa The other, called Tashi Lama, resides in the convent at To shi-lun-po Their powers, religious and civil, are identical, but the Dalai Lama possesses the greater territory

Dalbeattie Burgh and market town of Kirkendbrightshire It is situated on Dalbeattle Burn, 5 m from Castle Douglas and 141 from Dumfries, and its quarries have supplied the granite from which the docks at Liverpool and the Thames Embankment have been constructed Other industries include concrete works, granite polishing, and dyeing Pop (1931) 3011

Dalgety Town of New South Wales it is in an agricultural district. It was proposed as a site for the Federal capital, which was, however, built at Canberra Pop 4077

Dalhousie Earl of. Scottish title borne by the family of Ramsay In 1633 Lord Ramsay was made Earl of Dalhousie, and the title descended to James Dallousie, and the title descended to James Andrew, the 9th earl He succeeded in 1838, and in 1847 was made Governor-General of India, a post he filled until 1856 with great distinction In 1849 he was made a marquess and he died Dec 19, 1860 The marquesate became extinct, but the earldom passed to a kinsman. kinsman

John William, the 13th earl, was secretary for Scotland in 1880. His elder son became the 14th earl in 1887, and his younger son Alexander Robert Maule Ramsay, married Patricla, daughter of the Duke of Connaught, in 1918. Delbourie Cartle the carly result. in 1918 Dalhousie Castle, the earl's seat, is in Midlothian His cidest son is called Lord Ramsay George, the 8th earl (1770-1838), was governor of Nova Scotia, the university at Halifax, founded in 1818, is called Dalhousie University

Dalkeith Burgh and market town of the south-east of Edinburgh, on the LNE Rly It has a corn market and is a coal mining ntre Pop (1931) 7502 Here is Dalkeith Palace, a seat of the Duke

of Buccleuch Bullt about 1700 it stands in a large park An earlier castle was one of the seats of the Douglas family The eldest son of the Duke of Buccleuch is called the Earl of Dalkeith

Dalmatia Province of Yugoslavia It forms a narrow coastal region, 200 m long, on the Adriatic between Bosnia-Herzegovina and the sea, and is faced by innumerable islands with extensive fisheries Occupying 4900 sq m, it is mostly moun-tainous There are some good harbours The chief towns are, Sibenico, Brazza, Cattaro, Spalato and Ragusa Until 1918 Dalmatia was Austrian territory In 1920 it was given by treaty to Yugoslavia, except the capital, Zara, which was handed over to Italy. Pop 623,000 623,000

evenly sprinkled black spots. It averages 50 55 lb in weight

Dalmatic Liturgical vestment A wide sleeved tunic became fashion able in Rome and Pope Silvester I (314-335) bade his clergy wear this instead of the sleeve less garment. In its present embroidered form it is worn by deacons in the Roman Catholic Church and by bishops under the chasuble at mass

Dalmellington It is situated on the River Doon, 15 m. from Ayr on the L M.S. Rly A Roman road once passed through the parish towards Ayr Iron working and coal mining are the chief industries in the neighbourhood Pop 6183

Dalmeny Village of Linlithgowshire Edinburgh, on the L NE Riv There is an eld church here and also Dalmeny House, the seat of the Earl of Rosebery, whose eldest son is called Lord Dalmeny

Dalmuir District on the Clyde, part of stands where Dalmuir Burn falls into the Clyde, and has a station on the LMS line The important shipbuilding yard here was closed in 1930

Dalry Town of Ayrshire It is 23 m from Glasgow, on the LMS line In the neighbourhood are iron works and one mines and there are textile manufactures in the town Pop 7400

Dalston Suburb of London To the east of the city, it is in the borough of Hackney Another Dalston is a village in Cumberland, 4 m from Carlisle

Dalton John English scientist, and one of the greatest of chemists Born Sept. 6, 1766 he became a schoolmaster at Kendal In 1793 he became a lecturer at the New College Manchester, and in 1822 an F R S He died in Manchester July 27, 1844 In 1794 Dalton, himself colour blind, published the first scientific account of that defect often called Daltonism He is better known, however, for his statement of the

In 1794 Dalton, himself colour blind, published the first scientific account of that defect often called Daltonism He is better known, however, for his statement of the Atomic Theory of Matter which postulates that the elements unite in definite proportions by weight, the proportions being determined by the "atomic number" Thus the atomic weight of oxygen being 16, oxygen always combines in units of 16 or multiples of 16

Combines in units of 16 or multiples of 16
Dalton laid down also two important laws
(1) The pressure exerted by and the quantity
of, a vapour which saturates a given space
are the same for the same temperatures
whether the space is a vacuum or is filled
with gus (2) (Dalton's Law) The pressure
of a mixture of gases is the sum of the pressures
which would be exerted separately by the
several constituents if each alone were present.

Dalton-in-Furness Market town and urban district of Lancashire It is 3 m from Barrow Furness Abbey remains are near In the market place is an old building called Dalton tower Pop (1931) 10,338

Dalton System Educational exstarted in America in 1920 by Miss Helen Parkhurst at the Dalton High School Massachu setts and the Childrens University School, Now York The system, which aims at a less artificial relationship between the child and its work, is based on the three principles of Freedom, Interaction of Groups, and Individual

Work. The work to be done is assigned to the child, who then attacks it independently of his schoolfellows, being supervised, and assisted if need be, by the teacher The system has been adopted in some of the British Secondary Schools and experimented with in certain Elementary Schools

Dalziel George British engraver Born Dec 1, 1815, he settled in London in 1835, and with his brothers started in business as an engraver They provided the woodout illustrations for an edition of The Waverley Novels, and did a great deal of work for Punch, The Illustrated London News, The Cornhull Magazine and other periodicals Later Dalziel became a publisher He died Aug 4, 1902

Dam barrier of wood or masonry built across a river or lake It serves to prevent or regulate the flow of water for purposes of irrigation, or for providing water power for generating electricity Notable dams are those on the Nile at Aswan and Asyut, the Great Senaar dam in the Sudan, and the Lloyd dam in India

Damages Sum of money awarded to a successful plaintiff in a civil suit If a person has been libelled, or injured or suffered loss on a contract, he brings an artion stating the amount of the loss he has suffered Damages are sometimes claimed in cases of divorce and seduction

Damascening Term applied to several ing metallic surfaces The pattern may be deeply engraved with undercut grooves filled with gold or silver thread, and smoothed Such work, highly developed in the East, was introduced by the Crusaders to Western Europe

Damascus 57 m s E of its port services to the control of the contr

Damascus belonged in turn to Assyrla Persia and Rome, and from 661 750 was the capital of the Caliphato In 1516 the Turks captured it and in Oct., 1918 the British entered it Later, it became part of the new republic of Syrla Pop 193 912

Dame Title of honour also the legal designation of the wife or widow of baronet or knight, prefixed to her Christian name and surname The Order of the British Empire has dames grand cross (G B E), and dames commanders (D B E)

Damien Father Belgian missionary a French religious order having missions in the Pacific, was ordained priest at Honolulu in 1864, and in 1873 volunteered to take spiritual charge of the leper settlement. Though himself stricken with leprosy in 1885 he continued his work until his death, March 28, 1888 Statements made by Dr Hyde a Presbyterian minister in Honolulu, after his death evoked R L Stevenson's celebrated letter to Dr Hyde in defence of Father Damien

Damietta Town and port of Lower Egypt. Situated on a spit of land between Lake Menzala and the eastern branch of the Nile, about 10 m from its mouth,

it surpassed Rosetta until the silting of its harbour diverted trade to Port Said and Alexandria. It is served by railway Damietta Alexandria. It is served by railway Damietta was taken by the Crusaders several times Pop 34,907

Dammar Hindu name applied to various resins, specifically from conferous trees Dammara orientalis yields East Indian dammar, D australis, the New Zealand kauri pine, yields Australian dammar Both, dissolved in turpentine oil, make transparent varnishes Black and white dammars are Indian resins from non-coniferous trees

Damocles Favoured courtier of Diony-Syracuse Having declared his patron to be the happiest of mortals, he was invited to a banquet and seated in the place of Dionysius where he observed above his own head a sword hanging by a single hair The parable was effectively utilised by Cicero and Horace

Damon Greek hero Damon and Pythias Syracuse condemned the latter to death Damon took his place and remained imprisoned while Pythias settled his affairs Pythias honourably returned in time for execution and Dionysius, impressed by their friendship liberated both friendship, liberated both

Damp Humidity In mining phraseology "firedamp" is marsh gas, mixed with air and exploded, it produces "choke damp" (carbon dioxide) "Black damp"—an accumulation of irrespirable gases, causes lights to burn dimly, while "white damp" sused of carbon menoxide

In Building—To avoid the upward passage from the soil of atmospheric vapour through porous building materials such as timber and bricks, a damp course is formed not less than b in above the ground level by horizontal, waterproof bands. These may be of slate, glazed stoneware slabs, sheet lead, asphalt, bituminised felt or similar impervious materials

Damper Device for moderating the vibration of strings in keyboard religious Felt pad damper heads which press upon the strings by springs are connected to damper lifters. All dampers are released simultaneously when the loud, or right, pedal is depressed. This prolongs the vibration of the strings after the release of the keys, and excites others, harmonically related A damper is also a door or valve, arranged to diminish the aperture of an air-flue or chimney, thus checking the computation

thus checking the combustion

Dampier William English navigator, buccaneer and hydrographer Born in Somerset, 1652, he served ashore in the Caribbean, 1674-76 He buccaneered in S American waters, 1679-86, reached Guam in 1686, sighted Australia in 1688, and was, after a dispute with his comrades, marconed on the Nicobar Islands, reaching England in 1691 He explored the Australian coast from Shark's Bay to Dampier Archipelago and discovered New Britain off Dampier Strait. After two privateering expeditions in 1703 07, he piloted Woodes Roger's circumnavigation he piloted Woodes Roger's circumnavigation voyage in 1708-11 He died in March 1715, leaving two books, Voyages and Descriptions 1690, and A New Voyage Round the World, 1697

Dampler Archipelago, off the NW coast of Australia, was a German possession until 1914 Australia, was a German possession and ate lt is now governed by Australia under mandate from the League of Nations Dampier Land is a peninsula of Western Australia.

Damson Fruit of a variety of the culti-tica) Mostly propagated by suckers, they are grown largely in Shropshire, Cheshire, Worcestershire and Kent. Smaller than the plum, and oval shaped like it, the damson is usually dark blue in colour, but yellow and

usually dark blue in colour, but yellow and other colours are grown

Dan (Signifies judge) Israelitish tribe the coastal region W of Jerusalem, they could not resist the Ammonites without help from Ephralm and Judah Part of the tribe accordingly migrated N to Jordan's headwaters, where the ancient city Laish was renamed Dan This became Palestine's northern limit. Hence the phrase "from Dan to Beersheba," in the South in the South

Danae In Greek legend, the daughter of Acrisius, King of Argos She was the mother of Perseus by Zeus, who visited her in a golden shower when, for safety, concenled by Acrisius in a brazen tower Mother and babe were sent admit in a sea chest. In classical tragedies and on vase paintings, Danac personifies the thirsty earth fertilised by rain Danač

Danaides In Greek legend, 50 daughters of Danaus, King of Argos Promised in marriage to the 50 sons of Aegyptus, they were bidden by their father to slay their husbands on the wedding night obeyed except Hypermnestra, who spared her husband, Lynceus The guilty ones were con demned in Hades to the endless task of pouring water into bottomless pitchers.

Danbury Village of Essex It is 4 m from Cheimsford. Danbury Place was the residence of the Bishop of Rochester On Danbury Hill, one of the highest points in the county, are remains of a Danish encampment. The name means Danes town Pop 1200

Another Danbury is a city of SW Connecticut, 65 m NNE of New York, famous for the Danbury Hatter's Case (1902) arising out of a trade union boycott

Dancing ments of the body Rhythmical steps and move vally it is a spontaneous expression of strong randy it is a splontaneous expression or strong emotion, religious or social, and is illustrated in the art of the Stone Age Primitive peoples manifest it variously, as Australian corroborces, Iroquois corn dances, Hawalian hulas and Asiatic posturings The sound for measuring the rhythm enhances the emotional appeal, even if it is only mere hard elapping or darm. even if it is only mere hand clapping or drum-

Music advanced with dancing to stimulate the sense of rhythm. The morris dance round a maypole, brought by John of Gaunt from Spain, typifies the homely measures of Tudor England, and survives in the games of modern children. From Spain came the payane, children From Spain came the pyrane, fandango, bolero and saraband France besides elaborating the gavotte, minuet and quadrille, remodelled the central Luropean polka, schottische and waltz

Dances comprise step dances, by individual performers, as jigs and hornpipes, rounds by pairs, with or without bodily contact, squares by even pairs, as reels and mazurkas, country dances, conire-dances, by indefinite pairs, and cotillons or germans. American barn dances of negro origin, governed by fazz band syncopation, came to Europe and developed into the two step, the one step, and the fox trot. Stage dancing elaborated the latter, both French and Russian

Dandelion Perennial herb of the comofficinale) It is native to all temperate and
cold regions The lobed leaves resemble lions' teeth, dents-de hon Its long black tap root bears numerous hollow flower stalks with soll tary heads of yellow strap-shaped florets. The seeds radiate white pappus hairs. The cultivated dandelion is blanched for salads. Phar macists prepare taraxacum extract from the dandellon, and its bitter juice forms a rustic remedy for warts

Dandie Dinmont Breed of dog Teviotdale, largely through a farmer who was a character in Guy Mannering, it is a long backed, short legged border terrier. With deep muzzle and hazol eyes, the dog is muscular and plucky, averaging 18 ib. The silky coat is slate blue, pepper or mustard in colour

Dandolo Enrico Venice A famous doge of Born in 1108 he belonged to one of the leading families of the He visited Constantinople as an republic. envoy to the emperor in 1173, but the story that he was blinded is not now believed In 1192 he was chosen doge He is chiefly remembered for his heroism in joining the Fourth Crusade in 1201 He added Crete and other districts to Venice and helped to found the Latin kingdom of Constantinople He died there, June 23, 1205

Dandruff Excessive dandruff — dead, flaky skin—indicates an in fections disease of the scalp (Seborrhoea) very difficult to cure and liable to result in baldness

Treatment consists in frequent washing of the scalp with bland, pure soap, the removal of all dead, scaly matter, mild antisoptic and oily dressings and massage Olive oil rubbed into the scalp before washing is helpful in removing the dandruff Ultra violet ray treatment is effective, and attention to the general health is of the greatest importance

Another type of seborrhoes is accompanied by excessive greasiness, but the same general treatment is indicated.

Danegeld Tax imposed in England to provide money to buy off the Danes For about 60 years, from 991, it was paid from time to time by all landholders to keep the invaders away William I revived to keep the invaders away William I revived it in 1084, but it was used for other purposes

Danelagh Portion of N and N England handed over to the Danes In 878 by the Treaty of Wedmore, or perhaps in 886, the Danes obtained the E portion of Mercia, in which many of them had settled, called the Danelagh, and divided from the English section by a line running from London along the Lea to Bedford, then along the Ouse to Watling Street It included East Angila, Northumbria, and a part of Mercia Early in the 10th century it was recovered by the English king

Name given to the rovers from raided England before 1066 They are also called Northmen From 790 to 851 raids were fairly frequent and great damage was done by the invaders, who sailed up the rivers and landed in search of plunder In 851 the Danes began to settle in England

and Alfred the Great handed over the Danelagh to them

About 982 the Danish ravages began again Ethelred the Unready raised money, the Danegeld, to buy them off, and in 1002 he instigated a massacre In 1013 Sweyn, King of Denmark, arrived and conquered the N of England, and in 1016 his son, Canute, became King of England He reigned until 1035, and his sons, Harold and Hardicanute, until 1042, when the Danish rule ended Danish settlements may be recognised by the ending by, eq, Grimsby and Formby

Danewort Popular name for the dwarf clder (Sambucus chilus) It is supposed to have reached Britain with the Danes. A native of Europe, W Asia, and N Africa it is a many stemmed herb, with pink tipped white bell shaped flowers in flat topped clusters They bear small, black globular berries The whole plant is distinctly purgative

Daniel Biblical character He was a Jew, one of the prisoners taken by Nebuchadnezzar to Babylon where he in terpreted the king's dreams This made the Chaldean magicians very angry and Daniel by hostile strategy, was put into a den of lions from which he came out unhurt. Daniel is mentioned by the prophet Ezekiel as a man

of great wisdom

The Book of Daniel The Book of Daniel In the Hebrew Scrip tures between Ezra and Esther External to the Law and the Prophets, it comprises six narrative and six apocalyptic chapters The original Hebrew, partly lost in antiquity, depends, from it 4 to vil, upon contemporary Aramaic versions. From its minute familiarity with the events of the second century, modern exchalasely dates its production to Antiochus In the Hebrew Scrip scholarship dates its production to Antiochus Epiphanes reign (76 164 nc) The anony mous author presumably utilised oral traditions of a Jewish Babylonian captive to hearten his

Maccabean countrymen

Dante Italian poet Dante Alighieri, the
son of a lawyer, was born in Florence
in May, 1265 In 1289 he served with the
Florentine army in the field and in 1300 he was one of the city magistrates In 1301 he was sent on an errand to the Pope and, during his absence his party lost power, and he was banished He died at Ravenna, Sopt. 14, 1321, where he is buried

Through life Danto dreamed of a great empire that would bring unit, and peace to Italy and Europe When a child and once or twice later, Dante met a certain Beatrice, also a child He never married her but she became for him the personification of love and inspired his muse In 1292 he married Gemma Donati

by whom he had four children

Danto's immortal work La Commedia, called,
in an edition printed 250 years afterwards, In an edition printed 250 years afterwards, La Divina Commedia, occupied eighteen years of his life It describes an imaginary pligrimage of the human soul guided by Virgil (natural philosophy) and Beatrice (revealed religion) They descend through hell's three divisions, elimb a seven terraced purgatory into the earthly paradise where Virgil leaves Beatrice to guide the pilgrims through the heavenly spheres to the Empyrean the intuitive vision of the Godhead The Vita Nuova completed in 1300, describes his love for the earthly Beatrice De Vulgar Lloquenia and Die Monarchia are Latin treaties on Italian poetry Monarchia are Latin treatises on Italian poetry Tho and political relations respectively The London Dante Society was founded in 1899

Danton Georges Jacques French revolusur Aube, Oct. 26, 1759 he became a lawyer in Paris In 1789 he was President of the Cordeliers Club and he commanded the National Guard in 1790 He became adminis

in 1792 He advocated resistance to the Byron The passage was forced by a British Prussians, using his famous phrase "De fleet in 1807, by Admiral Duckworth In l'audace, encore de l'audace, et toujours de 1856 the peace of Paris confirmed the right of audace," and became one of the leaders of the Turkey to the sole use of the straits by warrevolutionary movement. He sat in the convention as a leader of the Mountain voted for the king's death, was a member of the Committee of Public Safety and of the revolutionary of Public Safety and of the revolutionary tribunal, but was not willing to follow Robe-spierre further Consequently he was arrested and sent to the guillotine, April 6, 1794, after he had made a speech of remarkable power and

Danube The most important river of S Europe It rises at Donaues chingen in Baden and flows for 1740 m through Württemberg, Bavaria, Austria, Hungarv, Czechoslovakia and Yugoslavia marking the Bulgo-Rumanian frontier, and crossing Rumania to the Black Sea It has over 300 tributaries, and on it are three great capitals. Vienna, Budapest and Belgrade, where it is over 1 m wide, also Ulm, Regensburg, Passau and other historic towns, Bratislava, the port of Czecho-lovakia and Orsova with the Iron Gates It is navigable by large vessels to Brella and by river barges to Ulm, and is connected with the Rhine by the Main and a system of canals

The Danube is an international river, passing through six countries, and is governed by an international commission set up in 1919, which meets in Vienna, and looks after the river between Ulm and Braila For the rest of the river, from Braila to its mouth, a smaller commission was set up in 1856 with members from Great Britain, France, Italy and Branada

Rumania Rumania

Danzig City and free state under the League of Nations It stands on the Vistula, about 4 m from its mouth, at its junction with the Mottlau 280 m NE of Berlin The territory included covers about 754 sq m The older parts of the city retain their mediaeval aspect, and the town hall is a magnificent Gothic edifice of the 14th century. These is a good hardour for trade in timber. There is a good harbour for trude in timber corn, etc Poland has the right to use the port.

The free state is governed by a president, a senate and a diet of 72 members elected for 4 years, and there is a commissioner representing the League of Nations In 1924 the Bank of Danzig was founded and a currency introduced with 25 gulden to the pound sterling Until 1919 it was the capital of West Earlier it was an important member of the Hanseatic League It has a broadcasting station (453 2 M, 0 5 kw) Pop (1929) 407,517

Daphne In Greek mythology, the daughter of a river god. Her

lover, Leucippus, who pursued her in woman's clothing, was slain by her attendant nymphs at Apollo's behest and she was changed by her mother into a laurel tree. The sanctuary and grove of Daphne, near Antioch, in Syria, were sacred to Apollo

Dardanelles Strait between Europe Sea of Marmora with the Aegean The classical Hellespont it is 47 m long and 3 or 4 m broad At the Marmora end Gallipoli confronts Lap-Kum Kale Above its broad outlet the channel narrows, and is protected by castles on both sides Between Sestos and Abydos, the channel 1300 yd wide, was crossed on boat bridges by the armies of Xerxes, 480 BC, and Alexander, 334 BC. There, too, it was

trator of Paris in 1791 and Minister of Justice | swum in legend by Leander, and, in fact, by shins

Dardanelles Campaign During the Great War, in 1914 and again early in 1915 the forts bombarded by British and French warships and an attempt to force the straits failed with considerable loss These operations preceded the landing on the peninsula of Gallipoli The Treaty of Lausanne of 1923 placed the straits under an international commission See Gallipoli

Dardanus Mythical ancestor of the Trojans A son of Zeus and Electra, he was born in Arcadia He crossed over into Asia Minor where he married a daughter of Teucer and founded Troy From him the Trojans are called Dardanide: He is connected with Rome through the legend of Aeneas Auotherstory transferred the ancestors of Dardanus to Italy

Darent River of Kent It rises near Westerham and flows to the Thames which it enters near Erith It is 20 m

long and is navigable to Dartford
Darenth is a village on the river 2 m from Dartford Here a Roman villa and an Anglo-Savon cometery have been uncarthed village has paper mills

Dar-es-Salaam Seaport of Tangan-yika Territory It has a sheltered harbour which accommodates has a sheltered narpour which accommodate ocean-going vessels. There are rallways to Kiguma on Lake Tanganvika, 772 m away, and a branch from Tabora to Mwanza on Lake Victoria, 235 m away. With Bagamoyo it is the terminus of cavarans from the interior, and handles a growing export trade of sisal hemp, coffee, cotton and minerals It has a wireless transmitting station Dar-es-Salaam was the capital of German East Africa before it surrendered to the British in Sept 1916 Pop (1930), 33,147

Darfur Province of the Anglo-Egyptian Sudan, and semi-independent kingdom The greater part of the country is a plateau for two to three thousand feet above sea level Bordered westward by French Equatorial Africa (Chad colony), the frontier of which was delimited in 1924, southward by the Sudanese province of Bahr-el-Ghazal, and eastward by Kordofan it occupies 175,000 sq m Mostly upland, it is traversed by the Jebel Marra ridge, the watershed between the Chad and Nile basins The negro and Arab population raises cattle and cereals Copper and Iron are mined El Fasher is the capital Pop 1,500 000

Dargai Station on the Indian frontier On the Afghan border of the N W province, its railway station, the most northerly in India, terminates a branch from Naushahra. It is on a hill range dominating the Malakand It is on a hill range dominating the Malakand Pass into the Swat valley, and in the Tirah campaign of 1897-98, British troops were forced to abandon it from lack of water, but it was retaken after an unsuccessful first attack, by the Gordon Highlanders, supported by the 2nd Gurkhas and the 3rd Sikhs, Oct 20 1897. Darien Name formerly applied to the neck of land joining Central and S America now called the 1sthmus of Panama It was ' silent upon a peak in Darien" that Balboa—not Corter—looked down upon the Pacific in the Gulf of San Miguel in 1513 The

Darlen River is now the Tuira The Serrania 6, 1849, and became a bafrister In 1888 ho del Darien is an Andean range on the Colombian frontier

The Darien Scheme was a plan to start a company in Scotland to trade with the W Indies It was founded by William Paterson and authorised in 1605 by the parliament in Scotland In 1698 settlers were sent out to Darlen, but they found it impossible to remain there The climate was bad and the Spaniards hostile The scheme was disliked in England and its failure was attributed to this attitude, and there was much bitterness between the two

Countries for some years

Darius Name of three Persian kings
Darius I, Hystaspis (521-485 B C) a son of Hystaspes established himself as successor to Cambyses after suppressing various rebellions. He made Thrace and Macodonia Pergian, and undertook two ex suppressing preditions into Greece the second being over come at Marathon, 490 BC He organised the taxes, coinage, postal service, and maritime trade, dug a ship canal from the Nile to Suez and permitted Zerubbabel to build Jerusalem's

Balti permitted Zeitubater to build Serisatem's second temple (Ezra vi)
Darius II, Ochus (424-404 BC), had a dis tubed reign Under Darius III, Codomanus (336 331 BC), Philip of Macedon and Alex ander, victorious at the Granicus, Issus and Arbela, terminated Achemenian rule in Persia

Darjeeling Town and district of Bengal The town, 7000 is a military and civilian health station, the summer quarters of the provincial government and an educational centre It is 360 m from Calcutta, connected by railway Tea and rice are grown in the province in which are some of the foothills of the Himalayas Pop. 22,258

Darlaston Urban district of S Stafford shire in the Black Country, about 2 m from Wednesbury on the L M.S. Rly The chief Industries are coal mining and iron working Pop (1931) 19 736

Darling River of Australia It rises in the Great Dividing Range in Queensland and flows right across New South Wales until it joins the Murray at Wentworth The Warrego is its most notable tributary it are Bourke Louth Menindie and other places Its volume of water varies very much, in a wet season steamers can ascend it beyond Bourke Its length is 1160 m

Darling Downs is a great grazing area in Queensland It is famous for its sheep and contains coal mines Warwick and Toowdomba

are the chief towns

Darling are English heroine Born at Bamborough, Nov 24, 1816, she was the daughter of William Darling, keeper of the lighthouse on the Longstone, one of the Farne islands On Sopt 7, 1838, the steamer Forfarshire was driven on the rock about a mile from the Longstone The Bamborough beatmen refused to put out through borough boatmen refused to put out through the wild seas but Grace Darling persuaded her father to help her in taking a boat to their rescue They reached the wreck and returned to the lighthouse safely with nine survivors, whom they tended for two days before they could be taken to the coast when the gale subsided. She received a purse of £700 raised by public subscription and many gifts and testimonials She died of consumption at Bamborough, Oct 20 1842

Darling Lord Fuglish lawyer Charles

Darling John Darling was born Dec

was elected Conservative MP for Deptford a seat he retained until made a judge in 1897 He retired in 1923 and in 1924 was made a baron His reputation as a wit was maintained by the volumes of verse he published, including On the Oxford Circuit

Darlington Borough and market town of Storne, a tributary of the Tees, 230 m from London and 181 from Durham, on the L N E Rly It has been an important rallway centre since the opening of the Stockton and Darling ton Rly in 1825 The industries include rail way locomotive shops engineering works, iron works, and woollen mills It is associated with the famous Quaker families of Pease and Fry Pop (1931) 72 093

Darmstadt City of Germany The capital of the republic of Hesse 21 m from Mainz, it is an important railway junction Manufactures include chemi cals and beer In the 16th century Darmstadt became the residence of the family ruling over the part of Hesse called Hesse Darmstadt.

Darnel (Lolium temulentum) Annual It is a native of Europe, temperate Asia and N Africa It differs from rye grass by its longer empty glumes and more turgid flowering glumes

Darniey Lord Scottish noble Honry Stuart was born at Temple Newsam Dec 7, 1545, being the eldest son of the Earl of Lennox Through his mother, a Douglas, he was descended from Henry VII on July 29 1565 he was married to Mary, Queen of Scots and their only child was the boy who later became James I Darnley's short married life, marked by his share in the blown up and killed whilst lving ill in a house called Kirk o' Field Edinburgh Feb 10, 1567 The share of Mary in this crime is still a riddle of history

The Irish title of Earl of Darnley has been borne by the family of Bligh since 1725 The family seat is Cobham Hall, Kent and the earl's eldest son is Lord Clitton The 8th Earl when Hon Ivo Bligh was a noted cricketer

Dart River of Devon It is formed by the Dart E Dart and the W Dart. Both rise on Dartmoor and unite at Dartmeet, whence the

on Dartmoor and unite at Dartmoot, whence the river flows past Dartmouth to the English Channel. On account of the beauty of the scenery through which it flows it has been called the English Rhine It is navigable to Totnes and is 46 m long.

Dartford Market town and urban dis the Darent, a tributary of the It stands on the Darent, a tributary of the Thames and 15 m from London on the S Rly There are rulns of a priory, once a famous pligrim resort. Coment and paper are made, and there are Cement and paper are made, and there are engineering works and flour mills. It is proposed to build a tunnel from here to Purfleet Wat Tyler started his robellion here (1381) Pop. (1931) 23 928

Moorland district in Dovon Dartmoor shire it covers about 300 sq m and is about 25 m at its widest extent N to S and 20 m E to W It stretches from Okehampton almost to Plymouth and from Taylstock to Newton Abbot It is practically useless for agriculture, though there is a little graving Hish Willhays and les Tor are the highest peaks both just over 2000 ft. Prince town, with its convict prison is on the moor

and on its edge are Lydford, Chagford and other places The Dart, Tayy, Teign and Okement also on the moon. In the N it is used as an artillery range. The prison was built in 1806 to hold French prisoners of war For some time after 1815 it was unused, but in 1830 it was made the chief convict prison for the country In 1931 there was serious trouble

among the prisoners

The Dartmoor Terrier is a variety of fex terrier, bred to dig out foxes on the moor

Dartmouth Borough, scaport and murket town of Devon It stands on the W bank of the Dart, 30 m from Exeter 1te station (G.W.R.) is at Kings-Borough, scaport and wear on the other side of the river A good harbour is formed by the river and it is a vachting centre Pop (1931) 6707

Dartmouth Royal Naval College was opened

in 1905 to train officers for the navy They enter the college after passing a competitive examination and remain there as naval cadets for nearly 4 years. The building is on Mt. Boone and holds

about 500 boys

The title of Earl of Dartmouth was given to William Legge, a Secretary of State, in 1711 The earl's seat is Patshull House, Wolverhampton His eldest son is called Viscount Lewisham, in which district he owns a good deal of land

Dartmouth City of Nova Scotia. On the E side of Hallfax Harbour, it has engineering works and sawmills and a ferry crosses the harbour It is the ter minus of a milway line now part of the part of the national system Pop (1931) 9,100

Darton Urban district of Yorkshire (WR) on the Dearne, 4 m from Barnsley, on the LMS Rly Coal mines and engineering works are the chief employments. Pop (1931) 12,595

Darwen Borough and market town of Lancashire, 20 m from Manchester, on the LMS Rly The industries are the making of cotton and paper, coal mining and stone quarrying, and public baths were creeted in memory of Sir Robt Peel

Pop (1931) 36,010

Port and town of N Australia
It stands on a gulf in the extreme h, and is connected with the interior by rail-There is a good harbour 707 Its earlier

name was Palmerston
Another Darwin is a settlement in the Falkland Islands.

Darwin Charles Robert English naturalist. The son of Dr Robert W Darwin, FRS, he was born at Shrewsburr, Feb 12, 1809, and educated there and at Edinburgh and Cambridge From 1831 to 1836 he served as naturalist on board the Beagle in its served as naturalist on board the Beagle in its survey of the Atlantic and Pacific Oceans, and the knowledge gained on this vovage laid the foundations of his later researches In 1839 he matried Emma Wedgwood and the next 20 years were spent in selentific researches, chiefly at Down in Kent The results were published in The Origin of Species in 1859, a landmark in the history of science, and in 1871 appeared Tie Descent of Man He died April 19 1882 April 19 1882

The theories of Darwin were fiercely assailed and aroused bitter controversy. He believed that man is related to the lower animals and that in animal life there is a continuous struggle for existence which leads to the natural struggle for existence which leads to the sector selection of those qualities that are most useful to preserve and continue the life of the species

or natural selection Darwin gives man, examples of the selective process, which he examples of the selective process, which he examples of the selective process, which he examples is now a This is the doctrine of the survival of the fittest, descended from the lower animals is now a truism of science. His theory of natural selection is accepted, with certain modifications due to the influence of environment, which he ignored or rejected His house at Down, Kent,

is now the property of the British Association.

Darwin's sons inherited his gifts Sir George Howard Darwin (1845-1912) was professor of astronomy at Cambridge 1883 1912 Charles Charles Calton Darwin became professor of natural philosophy at Edinburgh in 1923 Sir Francis Darwin (1848 1925) was reader in botany at Cambridge and was responsible for his father's Life and Letters Bernard Darwin won fame as a golfer and a writer on golf Leonard Darwin (born 1850), the scientist's fourth son, became a soldier in the Royal Engineers He went on several scientific expeditions and later became president of the Eugenics Society, and a writer on that subject Sir Horace Darwin (1851-1928) became the head of a firm, at Cambridge, making scientific instruments

Darwin Erasmus English scientist He was born at Elston, Notting-hamshire, Dec 12, 1731, studied at Cambridge and Edinburgh, and became a doctor His poem, The Botanic Garden (1792), shows a great love of nature, although the style is stilled and artificial His most noted scientific work was his Zoonomia, 1794, in which he treats of pathology and generation. In this latter work he anticipated much of the Lamurckian idea of evolution. He was the grandfather of Charles Darwin and of Francis Galton He died April 18, 1802

Datchet Village of Buckinghamshire, on the Thames, 2 m from Windsor Datchet Mead is the scene of Falstaff's tribulation in The Marry Wives of Windsor There are remains of a monastery near the bridge Pop 2056

Date Fruit of a tree of the palm order. A native of N Africa and S W Asia (Phanix dactylifera), it is widely cultivated in India Mediterranean Europe grows it for Palm Sunday foliage It is straight-stemmed and crowned with feather-like leaves, the male and female flowers being found on separate trees It grows to a height of 100 ft and bears dates in bunches of 200 or so. The natives of N Africa use the date-palms for building huts,

The fruit of the date palm is very rich in sucar, and is largely exported to Great Britain. The date plum is a tree that bears fruit about the size of a small crange. The plums are dried and eaten as a desert fruit

Alphonse French novelist. Born at Nimes, May 13 1840. novelist. Daudet the son of a silk manufacturer, he was educated at Lyons and became a secretary in Paris His studies of his early life in Provence, eg studies of his early life in Provence, eg Lellres de mon Moulin, 1866, Le Petit Chose 1868, appeared first in the newspapers but a wider fame came with the wonderful adventures of the imaginary Tartarin de Tarascon, Tromont Jeune et Rister Ainé, Trente ans de Paris, 1888 and Sourenirs d'un Homme de Lettres, 1888 are autobiographical L'Immorlet 1888 are autobiographical L'Immorle is a satire on the Academy Paris, Dec 17, 1897 Daudet died in

His son, Léon Daudet born Nov 16, 1867, became a journalist and editor of L'Action Française He is better known, perhaps, as a 364

royalist, and his advocacy of that cause led his defeat at Neville's Cross, in England. He to his imprisonment.

Dauphin Title borne by the eldest son of the kings of France It means dolphin and was the title of certain princes in the 13th century or earlier One of these, the Dauphin of Vienne, sold his lands to the prince who, in 1364, became King Charles V He gave these lands to his son, and from that time the eldest son was called the Dauphin, just as in England he was called the Prince of Wales His inheritance, the district round Grenoble, became known as Dauphine

Davenant Sir William English poet The son of an innkeeper at Oxford, he was born in Feb 1606, and was a godson of Shakespeare In 1629 he was made gouson of shakespeare in 1629 he was made poet laureate and became manager of a London theatre. In the Civil War he fought for Charles I and was knighted, but later he was imprisoned as a royalist. He died April 7 1663. Davenant wrote The Cruel Brother and other plays but is best known as the author of "The lark now leaves its watery nest."

"The lark now leaves its watery nest."

Daventry Borough and market town of rom London and 12 m from Northampton, on the L M S Rly The chief industry is the making of boots and shoes Here the B B C has erected two high power stations (5 XX and 5 GB) for the transmission of the Daventry National programme (1554 4 M 30 kW), and the Midland Regional (398 9 M 25 kW) Pop (1981) 3608 (1931) 3608

Davey Lord English lawyer Horace Davey was born Aug 30 1833, and educated at Rugby and University College Oxford In 1861 he became a barrister, and in 1880 Liberal MP for Christchurch In 1886 and in 1892 93 he was Solicitor General From 1888 to 1892 he was MP for Stockton In 1893 he was made a Lord Justice, and in 1894 a Lord of Appeal and a life peer as Lord Davoy of Fernhurst He died Feb 20, 1907

David Biblical character The youngest he became a shopherd and famed for his skill on the harp Samuel, the prophet, anointed him as Saul's successor in the kingship, and he became armour bearer to the king Having him as Saul's successor in the kingship, and he became armour bearer to the king Having killed the giant Gollath, he became the bosom friend of Saul's son, Jonathan, but Saul s enmity soon drove him into the wilderness where he became the leader of a body of dis contented men who lived in the cave of Adulant The death of Saul and Jonathan, in battle against the Phillstines followed, and David became King of Judah but his reign was passed in warfare mainly against his rebellious son, Absalom, and others.

David is regarded as the founder of the royal line to which Jesus Christ belonged His story

line to which Jesus Christ belonged His story is told in the books of Samuel, Kings, and Chronicles He stands out as a national hero, remarkable for strength and skill a great leader of men, but capable of dastardly deeds in pursuance of his ends His statue by Michel angelo at Florence is one of the world's master-

David I was a son of Robert Bruce He became king in 1329, but passed many years as a prisoner, first in France and then, after pieces

DAVIEŠ

David Patron saint of Wales According to legend he was a grandson of King Ceredig, uncle of King Arthur and a great miracle worker, and his mother was Non, a Cymric saint Historically, he was born early in the 6th century and became Bishop of Menevia, now S Davids As the head of the church in Wales he moved the seat of ecclesiastical government from Caerleon to Menevia. He founded many churches He died about AD 601 and was canonised by Calixtus II in 1120 David's Day is March 1

David Jacques Louis. French historical painter Born in Paris, Aug 31, 1748 His father was an architect Under Napoleon he was given official recognition, but was afterwards exiled and died in Brussels, Dec 29, 1825

Dec 29, 1825

Among David's best pictures are "Madame Récamier" and "The Coronation" "The Rape of the Sabines" (1799) is usually accounted his masterpiece He was also a politician, and as a member of the convention voted for the death of Louis XVI later following Robespierre

Gerard David was a Flemish painter who lived between 1450 and 1523 Some of his work is in the National Gallery, London.

Davidson

Baron English archbishop
Randall Thomas Davidson
was born April 7 1848, near Edinburgh and
was educated at Harrow and Trinity College
Oxford In 1874 he was ordained and for 3
years was a curate at Dartford In 1877 he was made domestic chaplain to the Archbishop of Canterbury, whom he served for 6 years In 1883 he was appointed Dean of Windsor, in 1891 Bishop of Rochester, and in 1895 Bishop of Winchester In 1903 he was chosen Arch bishop of Canterbury, and for 25 years held that post, a longer period than most of his prederessors. He resigned in 1928 and was made

prederessors He resigned in 1928 and was made a baron He died May 25 1930

Davidson John Scottish poet. Born his father was a minister He was educated at Edinburgh and was for twelve years a schoolmaster In 1890 he settled in London where the rest of his days were devoted to poetry, and his volumes, Fleet Street Ectoques and Ballads and Songs won for him a high place amongst the poets of his day He drowned himself at Penzance, March 23, 1909

Davidson John Colin Campbell British politician Born in Aberdeen, Feb 23, 1889, he was the son of Sir J M Davidson, a noted physician there Educated at Westminster School and Pembroke College. Cambridge he entered political life and between 1910 20 was private secretary to a succession of ministers In 1920 he was elected Unionist ot ministers in 1920 he was elected Unionist M P for the Hemel Hempstead division and in 1923 was Chancellor of the Duchy of Lan caster From 1924 26 he was Parliamentary Secretary to the Admiralty and was chairman of the Unionist party organisation from 1926 to June 1930 In 1928 he was made a Privy Councillor

Davies Benjamin Grey Welsh vocalist known as Ben Davies Born in Glamorganshire, Jan 6, 1858, he studied music in London For many years he was with the Carl Rosa Opera Co and his tenor voice was also heard to great advantage in Iranhoe and other operas at Covent Garden Theatre, London.

Walford Davies Sir Henry British: organist and composer Born at Oswestry, Sept 6, 1869, he was a chorister at Windsor and took up music as a career After studying in London, he was appointed organist of Christ Church, Hampstead, in 1891, and in 1898 organist of the Temple Church, London He was (1903 07) conductor of the Bach Choir In 1923 he became professor of music at University College, Aberystwyth In 1924 he was chosen Gresham Professor of Music, and from 1927 to 1932 was organist of S George's Chapel, Windsor In 1922 he was knighted Davies is known for his cantatas and other Tursic and for his newlock broadcasting talks music, and for his popular broadcasting talks, which were, however, discontinued for a year from June, 1934, to give him time for his literary and other activities He succeeded Elgar as Master of the King's Musick, April,

Davies William Henry English poet Born at Newport, April 20, 1871, he lived a wandering life in America and Britain, chiefly as tramp and pedlar All the Britain, chiefly as tramp and pedlar All the time he was writing poetry, and in 1906 his volume, The Soul's Destroyer, attracted a good deal of attention Other volumes followed, all showing a love of nature expressed in beautiful language These include The Song of Love, 1926 His prose writings include The Autobiography of a Super-Tramp, A Poet's Pilgrimage and The Adventures of Johnny Walker, Tramp

Davis Jesserson American statesman Born in Kentucky, June 3 1808, he was in the army from 1828 to 1835 In 1845 he was elected to Congress by Mississippi, and served in the Mexican War (1846-47) In 1847 he became a member of the Senate From 1851 to 1855 he was Secretary for War, and in 1855 he returned to the Senate In 1861, when the southern states seceded from the union, Davis was elected their president and remained president during the war When it was over he was accused of treason, and It was over he was accused of treason, and passed some time in prison, but in 1869 he was released He died Dec 6, 1889, and was baried at Richmond, Virginia

Davis John English sailor, sometimes called John Davis (Not to be confounded with John Davis of Limehouse, also a navigator, who lived several decades later) Born in Devonshire about 1555, he went to sea, and in 1585 tried to find the North-West Dassage After veveges to the Articles West Passage After voyages to the Arctic Ocean, he went S and discovered the Falkland Islands in 1592, and then E to the Indies In 1604, Dec 29 or 30, he was killed during a fight with pirates in the eastern seas

Davis Strait, the channel connecting Baffin Bay with the Atlantic is named after him It is 200 m wide at the entrance and separates Baffin Island from Greenland Davis Sea, part of the Antarctic Ocean, is named after a later explorer, James Davis, who explored it in 1914

Davis Cup Tropny contended to tennis teams It owes its name to Dwight Davis, an American politician Each team consists of four men From 1920 to 1926 it was won by the United States, from 1927 to 1932 by France and in 1933 by Great Britain

Davit Projection on a ship's side or stern for holding a boat. Usually pairs

similar forecastle cranes for catting anchors Davitt Michael Irish politician Born in Mayo, March 25, 1846, he was the son of a peasant who was evicted from his holding and went to Lancashire in 1851 There Michael began to work in a cotton mill at Haslingden, and a few years later lost his right arm through a machinery accident He soon became an active Fenian, and was one of the band that attacked the castle at Chester in 1870, for trafficking in arms, he was sentenced to a long term of imprisonment, but was released in 1877 In 1879 he founded the Land League, but his activities led to his return to prison, while there he was elected M P for Meath, but as a convict was unable to take his seat He sat in the Commons as M P for South Mayo, 1895-99, but until Parnell's death he was one of his opponents In 1898 he helped to found the United Irish League He died May 31, 1906 Davitt's writings include Lessons from a Prison Diary

Davos Platz Winter and health resort of Switzerland It is in the Davos valley, which stands 5000 ft

is in the Davos valley, which stands 5000 ft high It is famous as a resort for consumptives, and for its organised winter sports, including stating, ski-ing, ice hockey and bobsleighing Davout Louis Nicolas French soldier, brilliant, but a despot Born in Burgundy, May 10, 1770, he became a marshal in 1804, and held commands at Austerlitz and elsawhere. He was with Nepleon in Russia. elsewhere elsewhere He was with Napoleon in Russia in 1812 and was then in Germany where, in 1814, he surrendered He joined Napoleon during the Hundred Days, and after Waterloo remained with the army to the last He was pardoned in 1817, when he regained his title of Duke of Auerstädt, and took part in public life until his death, June 1, 1823

Sir Humphry English chemist He was born at Penzance, Dec. 17, 1778, educated at the grammar school there, and apprenticed to a doctor In his early studies in chemistry he investigated the properties of gases, and discovered laughing gas After his appointment as professor of chemistry at the Royal Institution, London, in 1802, his work was concerned with agricultural and electro chemistry In 1810 Davy demonstrated the true nature of chlorine, and his discovery by electrolytic methods of the metals sodium and potassium was followed by the isolation and potassium was followed by the isolation of boron, proof of the combatibility of the diamond and the invention of the Davy safety lamp He was knighted in 1812 and received a baronetey in 1818 In 1820 he was made President of the Royal Society He died at Geneva, May 29, 1829

Davy Lamp Miner's safety lamp It was invented by Sir Humphry Davy in 1815 An oil lamp is enclosed in a cylinder of metal wire gauze through which the flame cannot be communicated by the same cannot be communicated. cated even in an atmosphere which contains

cated even in an atmosphere which contains sufficient coal gas to be explosive

Dawes Charles Gates American diplomatist Born in Ohio, Aug 27, 1865, he became a lawyer and practised at Lincoln, Nebraska Later he turned to business life, and in 1917 was appointed chairman of the purchasing board of the American army In 1923 he represented his country when the ouestion of German Reparations was considered Davit Projection on a snip's side or stern for holding a boat. Usually pairs of straight or curved wood or metal arms, they can be shipped or unshipped at will They commonly turn on their axes, enabling the boat to swing inboard for stowage, or outboard for lowering by pulleys Cat davits are

1924 he was elected Vice President of the was to advance the clock one hour during the United States on the republican ticket. When summer so as to increase the daylight in the he vacated that office in 1929 he was sent as ambassador to London He retired in 1932 to take charge of the Reconstruction Corpora tion, but soon returned to business life in Chicago

Dawlish Urban district and seaside resort in Devonshire It is 12 m from Exeter and 3 m from I clummouth, on the GW Rily The sea front is attractive with extensive sands Pop (1931) 4578

with extensive sands Pop (1931) 4578

Dawson City Capital of the Yukon territory Canada A river port it stands at the junction of the Rivers Klondike and Yukon, about 1500 m from the sea Founded at the end of the 19th century, it became prosperous owing to the discovery of gold in the Klondike district. As the mines became less productive the city declined in importance Pop 1000

Dawson River of Queensland It rises to the Fitzroy River below Boolburra The two rivers have a combined length of 350 m Coal of good quality is found in the river valley, but not much mining has been done

Dawson of Penn, Lord Bertrand Edward Dawson the first baron studied at University College and the London Hospital He has done much toscarch on gastric trouble and has published treatises on paratyphoid and infective jaundies on which he worked during the war He became a peer in 1920, is Physician in Ordinary to the king, and was with King George V in his last illness

Dawson Sir John William Canadian geologist and naturalist. Born in Nova Scotia, Oct 30, 1820, he went to Edinburgh to complete his education In 1842 he started to survey Nova Scotia and in 1850 he was superintendent of education for the province From 1855 to 1893, he was principal of McGill University Montreal, and professor of recology there. In 1884 he was knighted, and in 1886 was President of the British Association He died Nov 20 1899

His son George Mercer Dawson (1849 1901), was director of the geological survey of Canada

Dawson City is named after him

Day John English dramatist. Born at to Cambridge He is known as the author of a dramatic allegory, The Parliament of Lees and Humour out of Breath He wrote plays in association with Henry Chettle and Thomas Dekker before his death in 1640

Daybrook It is 3 m from Nottingham on the LNE Rly Lace and hoslery are manufactured and there are laundries and a large brewery Bestwood Lodge is near

Daylesford Town of Victoria about 75 m N -W of Melbourne In an agricultural district, it is a mining centre and there is a school of mining Pop 3846

The original Daylesford is a village in Worcestershire Warren Hastings the Indian administrator, bought back the estate, which had for centuries been in his family, and rebuilt the house He is buried in the church and

Daylight Saving Scheme for giving daylight in the summer It was first brought forward by William Willett in an erticle published in The Daily Telegraph in 1907 The idea is sometimes called the beliadonna Department of the Daily Telegraph in 1907 The idea is sometimes called the beliadonna Department of the Daily Telegraph in 1907 The idea is sometimes called the beliadonna Department of the Daily Telegraph in 1907 The idea is sometimes called the beliadonna Department of the summer is the summer of the beliadonna Department of the beliadonna Department of the summer is th

summer so as to increase the daylight in the evening thereby benefiting the general health and welfare of the community and reducing the consumption of artificial light.

For many vears Willett faced great opposition but in 1916 a year after his death. Summer Time became law by Act of Parliament, and by a further Act in 1925 the change was made permanent. This provides that on the morning of the day following the third Saturday in April or the second Saturday if the third is Easter ore, the cock shall be advanced by one hour It is put back one hour on the day following the first Saturday in October This applies to Great Britain and Northern Ireland, while France Belgium and other countries have adopted a similar scheme

Dayton Chry of Ohio It is 50 m from the Great Miami River with three of its tributaries it is an important railway junction with a network of electric lines. A busy manufacturing place, here are the works of the National Cash Register Co and other large concerns. The city is a station of the U.S.A air service. Pop. (1950) 200 982

Daytona Senside resort of Florida. It south of St. Augustine It is famous for its beach on which motor races are run

Deacon In the Anglican and Roman Churches, a member of a cierical order The word in Greek means servant and the first deacons, of whom Stephen, the first Christian martyr was one, were appointed soon after the death of Jesus Christ (Acts vi)

In the Church of England a man cannot be ordained deacon until he is 23 years of age After serving as a deacon for a year, he is usually ordained priest. A deacon can conduct the services but is not permitted to consecrate the elements at the Communion service, or to pronounce the absolution In certain Noncon formist churches deacons are lavmen elected to manage the affairs of the church The office of deaconess existed in the carly

church, but after some centuries, owing to the growth of religious houses for woman they disappeared They were revived in the 19th century and are now found in the Church of Ingland and various Nonconformist churches, as well as in Germany and the United States. In the Church of England since 1897 they have carried on social work after being licensed by a bishop, and have been ordained for work as missionaries abroad

Dead Letter Office In Great department of the General Post Office Letters which cannot be delivered because of being insufficiently addressed the departure of the addressee, or any other reason are opened here and returned to the sender

Deadly Nightshade Plant found front Britain and clsewhere It grows in shady spots bordin and chewiter it grows in shad spots and bears reddish flowers and small black berries. The root, leaves and berries are very poisonous. Atropine and belladonna are prepared from the leaves and root. The plant is sometimes called the belladonna.

sponey-looking masses are studded with tentacled polyps, which do not harden into solid skeletons. The word also refers to the spotted orchis, O maculata, or marsh orchis, O latifola, with pale hand-like tubers Shekemars and the state of the spotted by the state of the spotted by the spotte speare mentions them in Hamlet iv 7.

Dead Nettle Genus of annual peren-nial hairy herbs of the lablate order It is native to temperate Europe, Africa The botanical name is Asia and N The commonest British species are laminm the red flowered L purpureum, white flowered L album, yellow flowered L galeobdolon, the imperfect flowered henbit, L amplexicalle, and the spotted L maculata, with white striped leaves and spotted flowers

Dead Sea Lake of Palestine It is a more of the Jordan and it receives the waters of the Jordan and lics 1300 ft below the level of the Wedlter-ranean The Arabs call it Birklt-Lut, or the rancan The Arabs call it Birkit-Lut, or one Lake of Lot and it is supposed to occupy the site of the etties of the plains, Sodom and Gomorrah Its waters, reduced by evaporation contain 25 per cent. of alkaline salts, and asphalt is found near Fish cannot live in the sea, but the human body floats easily on it Steps have been taken of recent years to expectate the self. extract the salt.

Dead's Part In Scot's law the part of a person's estate which he can leave to whom he will It is one-third for a married man with children, in other cases it may be half or even all Like Roman law Scots law does not allow a person to leave all his money away from his family.

Deaf Mute Person, who, unable to hear from birth or infancy, has never learned to speak. For teaching such persons to understand the thoughts of others, gestures were at first employed, but in time these gave way to a regular alphabet, in which there is a finger position for each letter In Great Britain both hands are used, in the United States only one Lip reading is also employed, but this is less satisfactory.

In Scotland the education of deaf mutes

was made compulsory in 1890, and in England and Wales three years later There are several societies for them in Great Britain The Royal Derf and Dumb Association, unifying about 60 local welfare societies, maintains churches for them The National College of Teachers of the Deaf promoted an international con-ference on the subject in London in 1925. The National Institute for the Deaf at 2 Bloomsbury Street, London, W C 1, is concerned with their industrial training. In the United Kingdom there are about 40,000 deaf mutes

Deafness Lack of hearing Deafness nerves is rermanent. It may result, in any Deafness degree, partial or transient, from imperfect conduction to the nerves of sound vibrations from the outside—It is due to inflamed external mentus, the presence of foreign body or hardened wax usually remediable, or a diseased or injured diaphraem of the middle err or Inner ear Occupational deafness affects boilermakers artillerymen and others who hear constant noises Nerve deafness, sometimes partial frequently attends old age Midaleear dealuces may be due to scarlating, adenoids or pasal catarrh Word dealness prevents sufferers from attributing meanings to words that they hear.

vas educated there and became a lawyer In 1878 he was elected to the legislature of Victoria and from 1883 to 1886 he was minister of public works and Solicitor-General From 1886-90 he was State Secretary He worked for the federation of Australia and in 1900 became Attorney-General and a leading member of the first federal cabinet In 1903 he followed Barton as prime minister, a post to which Le returned in 1905 He resigned in 1903, but was again premier for a short time in 1909 He died Oct. 7, 1919

Deal Borough and watering place of E Kent, and one of the Cinque ports It is 9 m from Dover and 91 from London on the S Rly Once Deal was a prosperous port, but the sea has encroached It is now known as a pleasure resort Pop (1931) 13,680

Trade name for sawn fir timber Deal Trade name for sawn fir timber It covers yellow Scottish pinus sylrestris, white American p strobus, and silver fir, abies excelsa, besides allied building timbers English deals are 7-9 ins by 3 ins by 6 ft. and over, those under 7 ins are battens, over 10 ins are planks, thinner are boards, shorter are deal ends American deals are 11 ins by 2 ins by 12 ft. A standard hundred of deals contains 120 pieces Deal

Dean (Lat, decanus) Ecclesiastical and collegiate official It referred at one time to the judge of ten districts, and came to be used for the senior member of a society Most of the English enthedrals and also Westminster Abbey and S George's Chapel, Windsor, each have a dean who is the head of the body called the chapter which is responsible for looking after its affairs In the Oxford and Cambridge Colleges, the dean is responsible for all matters of discipline Other deans are the Dean of the Arches, or judge of the Court of Arches, and the Dean of Guild, an official in some Scottish burghs A rural dean is a clergyman who looks after a part of a diocese

Dean Forest of District of SW Gloucestershire It lies between the Severn and the Wve, and covers about 80 sq m It is largely crown property Much of it is still forest land, where oaks and become of the still forest land, where oaks and become Forest of District of grow, but elsewhere are coal mines Cinderford and Coleford are the chief towns, the court of speech, now part of the Speech House court of speech, and applied to the speech House Hotel, is the old capital A railway line crosses the forest from Lydney to Lydbrook. Ruardean Hill (930 ft ) is the highest point St Briavel's is famous for its castle and church

Death End of life. It may be natural or violent In England and Wales If a medical man is unable to give a certificate saying that the death was from natural causes, an inquest must be held by a coroner, in Scotland an inquiry by a procurator-fiscal Every death must be registered with the registrar of births, marriages and deaths. otherwise the burial cannot take place

Death Duties are the duties charged on the property left by a dead person. In Great is italia they consist of estate duty and legacy duty See ESTATE, EXECUTOR, LECACY

Death Rate Number of deaths occurring annually per thonsand nembers of a country's population Statistics are collected by the Government to show the increase or decrease between one Deakin Alired Australian politician Born mortality of the sees at different ages, and another to compare the Deakin at Melbourne, Aug 3, 1857, he the incidence of death in one district or occupa

tion with that in another Death rates are if more than that amount in the high court.

higher in tropical countries

nigner in tropical countries
Owing to improved methods of sanitation, greater medical skill soientific discoveries humanitarian ideas, etc., the death rate in all civilised countries has decreased greatly in recent years. In 1876 the rate for England and Wales was 20 9 per 1000 Later figures for Great Britain and Northern Ireland are—

11 7 12 5 12 5 1933 1934

Death Watch Beetle Popular applied to a small beetle (restobum ruforillosi m) which lives in wood, and makes a ticking no se, wrongly believed to foretell death. The noise is really a mating call The ravages of this insect in furniture and old buildings are exten sive, necessitating regular architectural surveys and often wholesale reconstruction

Deauville Watering place of Franco It is on the English Channel 10 m. from Havre and is separated from Trouville by the little River Fouque The place, which has good hotels, golf links and other attractions, is much visited by Britons A race meeting is held in August Pop 3000

Debenture Bond issued by a comporation as evidence of a loan of money raised the document states the amount of the loan, the rate of interest, the security (if any) and the terms of issue, including the lender's rights in default of payment of interest or principal Debentures, like shares, are often issued in series by companies who raise huge loans by this means, and can be transferred like stocks and shares on payment of a stamp duty

Sometimes second debentures are issued, in which case the others are known as first or prior lien debentures Debenture holders are not members of a company, but are creditors of it Debentures must be registered at Somer

set House, London, W C

Deborah Prophetess of Old Testament Hebrews to victory over Sisera in Canaan The Song of Debornh (Judges v), one of the oldest specimens of Hebrew literature, describes the battle and the killing of Sisera by Jack

Debrecen Town of Hungary, 130 m E of Budapest It is an important railway junction, and a market for horses cattle and agricultural produce The university was founded in 1912 and the area under the municipal authorities covers 650 sq m It was once a fortress and noted as extrappled of the Calviniers Pap. 117 275 a stronghold of the Calvinists Pop 117 275

Debrett John English publisher Born about 1752 in 1781 he took over the business carried on in Piccadilly London by John Almon Almon had already issued in 1754 a New Peerage and this vasturned by Debrett into Debrett's Peerage and Baronclage He died Nov 15, 1822

Debt Sum of money owing by one person to another if a person cannot get his debt paid be usually turns it over to a solicitor or a debt collecting agency In English law the process is to issue a writ or a summons for the amount If this is £100 or less the case comes on in a county court

Unless the dobtor is able to prove that he does not owe the money, the judge will order it to be paid and, if this is not done, a distress can be levied on his goods. If there are no goods on which to lovy a distress, the creditor should apply for a judgment summons. In this case the judge usually orders payment by instalments, and if the debtor then fails to pay he can be imprisoned for contempt of court In Scotland the process is somewhat different.

An ordinary debt cannot be claimed if it is more than 6 years old, under the Statutes of Limitation, unless it has been acknowledged in writing since that date In the case of a debt expressed in a deed, called a specialty debt, the period is 20 years. The limitation of debts does not operate in the case of money

due to the crown

Debussy Claude Achille French musi-Germain-en Laye Aug 22, 1862 and after studying at the Paris Conservatoire, won the Grand Prix de Rome with a cantata L'enfant prodigue in 1884 Debussy then became a pioneer of impressionism, seeking to distil into musical terms the sights, sounds and atmospherics of nature His orchestral work, L'ayrès midi dun Faure (1894), his opera L'après midi d'un Faune (1894), his opera Pelléas et Mélisande (1902), and his lovely pianoforte music are proofs of his success Ho died March 25, 1918

Decalogue (Gr deka, ten, logos, mandments According to the account related in Evodus, they were given by God to Moses on Mount Sinai, and were originally written on two tables of stone. They were first introduced into the liturgy of the Church of England in the prayer book of Edward VI in 1652. They are not to be regarded merely as definitions of different crimes, but as ethical and finitions of different crimes, but as ethical and spiritual precepts

Decameron by Boccaccio The idea is much the same as that of Chaucer's Canter is much the same as that of Chaucer's Canter bury Tales, some of which are berrowed from Beccacelo, who in turn, borrowed from other writers During the plague in Florence in 1348 certain persons left the city and stayed for 10 days in an inn Here they told the stories Beccacelo wrote the book about 1350 The first English translation was made in 1620

Decapolis (Gr dela, ton, nolis, city) District of the Roman Empire occupied by a league of 10 cities. They pire occupied by a league of 10 cities. They enjoyed various privileges, struck their own coins and were liable to military service. The decapolis of Palestine probably formed during Pompey's campaigns in the East is well known. Gadara was one of its cities.

Deccan District of India A Sanscrit word which means "southern," the Deccan is a great plain lying to the S of the Vindhya Hills, with the Ghats, E and M, on either side In it are Bomba, and Madras, as well as the Central Provinces Some believe that It was part of a continent now mainly under the sea Much has been district now named Gondwannland district now named Gondwannland

Decimal In arithmetic, a term applied power of ten as a denominator It is represented by a point, thus 4 means four tenths

To divide or multiply | and 62 5 means 621 by ten and multiples of ten the point is moved in one way or the other, and if necessary noughts are added, thus, 33 412 divided by

1000 is 033412

The decimal system of coinage has been adopted in most civilised countries except Great Britain and India A standard unit is taken for reference, such as the france in France and the dollar in the United States In the metric or decimal system of weights and measures the metre is the standard unit of length, the gramme of weight and the litre of capacity The other measures are this unit multiplied or divided by ten or a multiple of ten, eg, a kilogram is a thousand grammes

Decimation Selection by lot of every tenth man It was a Roman military punishment, adopted to Roman military punishment, adopted to avoid undue weakening when large numbers of troops merited death for mutiny It occasionally applied also to captured prisoners. The term nowadays incorrectly designates wholesale destruction, such as decimation by

Pecius Caius Messius Trajanus Roman emperor Of obscure birth he rose to be governor of Moesia, whither he was sent to pacify the revolting army His soldiers forced him to assume the purple and he was also recognised in Rome He was finally defeated and slain by the Goths in a battle on the Danube His brief reign, from 249 to 251, is especially notorious for a cruel per-

secution of the Christians

Declaration Formal statement of any amples are the Declaration of Indulgence of 1687, the Declaration of Rights of 1689, the American Declaration of Independence in 1776, the Declaration of Paris, concerning maritime warfare in 1856, and the Declaration of London on similar subjects in 1908-9 In English law, solemn declarations before authorised persons sometimes replace affidavits A deathbed declaration respecting cause of death may be valid evidence Declarations of trust must be in writing and signed In Scots law prisoners may make signed declarations before magistrates within 48 hours of arrest, parties appearing before a court after ascertain ment of facts, such as marriage, are entitled to a declaration Declarations of war nowadays usually follow initial acts of hostility

De Clifford Baron English title, one peerage It was given in 1299 to Robert de Clifford His family, became extinct in 1605, and the baronv was in abovance until 1691 In 1721, having been held by the Tuftons, it again fell into aboyance, as it did in 1775 and 1832 In 1832 it came to Sophia, wife of John Russell, a descendant of the Southwells who held it from 1776 to 1832 and in that family it has since remained

family it has since remained

Declinator Instrument used in astronomy for determining the declination of a star or place in the heavens. This is the angular distance from the celestial equator as seen from the earth, thus corresponding with terrestrial latitude, just as right ascension corresponds with longitude

etc, and the acids set free from decaying matter act as agents in the decomposition of rocks In the case of granite the solvent action of carbonated waters resolves the rock into its constituents to form beds of sand and Kaolin

Decorated Period Style of Gothic architecture intervening between Early English and Perpendicular It covers approximately the reigns of the first three Edwards, 1272-1377 Dog tooth passed into ball flower moulding, foliage became more naturalistic, and ogee curves developed A geometric style,  $c\,g$ , as in the angel choir at Lincoln and the nave at Lichfield, became, by eliminating circle tracery, flowing and curvilinear The choir stalls at Westminster and Ely and Aymer de Valonco's tomb in Westminster Abbey illustrate of their forms. trate other forms Other fine examples of decorated work are the spires of the cathedral at Salisbury, of S Mary the Virgin, Oxford, and of the cathedral towers at Hereford and Wells

Decoy Contrivance for luring wildfowl guns The term, denoting in Tudor England a sharper and a card game, was perhaps transferred to Dutch duck cages in Stuart times Charles II made one in St James's Park in 1685 Channels are made from an estuary into a pool Arched with nets gradually narrowed, and the wild fowl lured therein by trained decoy ducks In America artificial birds float in suitable spots Some sportsmen hang caged partridges in trees as decoys

Decree Authoritative decision having the force of law The term designates such decisions by Roman emperors, and subsequently by ecclesiastical councils, eg, Trent. Formerly denoting equity decisions, decrees are now usually called judgments, except notably in the divorce court, which makes decrees for restitution of conjugal rights, judicial separation or divorce. Those rights, judicial separation or divorce Those for separation or divorce, at first conditional, or decrees nisi (unless) become absolute after six months

Decretal Letters and official acts of the popes, which had the force of law and were unreservedly accepted The first collection of these were sent by Innocent III in 1210 to the University of Bologna, additions being made by later popes. Apocryphal decretals soon became common, the most celebrated collection appeared in the 9th century in the Frankish Empire, under the name of S Isidore It was received as authentic by the councils and popes

Dedham Town of Essex It is 7 m Colchester and about 2 m from its station Ardleigh on the LNE Rly It was once a centre of the cloth trade and had a market The Stour flows by the town and on it is a picturesque mill Dedham has association with Constable, the artist

Deduction in mathematics the act deduct losses from gross receipts, agents deduct commissions before making payments

In logic deduction is the act of deducting

Decomposition As generally applied, the decay or separation of the constituents of a substance As regards organic matter this process is expedited by the action of bacteria, funcional series as well as by rain, frest, be wet during that period in the future. The from general principles particular results
Deductive reasoning is followed in making
weather forecasts Thus, if for many years
it has been wet on the 40 days following S opposite, though similar process fr particular to the general, is induction from the

Name of several British rivers The Welsh Dee rises in Bala Lake and flows to Chester where its estuary begins It is 70 m long, but its commercial importance has been destroyed by the accumulation of sand in the estuary

Another Dee is in Aberdeenshire long and passes Balmoral on its way through Doeside to the sea at Abordoen It is fomous for its salmon A shorter Dee, in the county of Kirkeudbright, is 45 m. long and rises in a

loch of the same name

Dee John English alchemist Born in at Cambridge He claimed to foretell the future by means of the stars and crystals He was by the put in prison in the time of Mary, but Edward VI gave him two livings in the church, gave him two livings in and Elizabeth believed in him and visited him for advice He died at Mortlake in Dec 1608 Dee claimed to be able to transmute gold and suggested a reform of the calendar. He wrote books on mathematical subjects His son Arthur Dec (1579 1651) was physician to the Isar of Russia and to Charles I

In law a document given under Deed Deed seul more binding than an ordinary agreement It must be stamped, the value of the stamp varying according to the amount of property dealt with by deed. It should be signed by each party to it and the signatures witnessed. Deeds are executed where house Deeds are executed where houses and land are sold or mortgages are granted Settlements of money on murriages and other occasions are usually done by deed.

Another deed is a deed of arrangement by which an insolvent person hands over his property to his creditors and so avoids bank ruptcy A deed made by one person is called a deed poll Lxamples are where a man changes his name or gives a power of attorney to some

one

Deemster Judge in the Isle of Man There are two deemsters in the S division of the island for the trial of offenders The name, formerly used also a Scotland means one who pronounces a doom or judgment The late St Hall Caine published a novel called The Deemster in 1887

Deeping George Narwick English on Sea, in 1877, he was educated at the Merchant Taylors School, London and at Trinity College, Cambridge He took a medical degree in 1902 and practised for a short time In George Warwick an include the published a novel and henceforward except during the Great War when he saw active service with the RAMC, be devoted his time to writing, his reputation resing steadily with each work. They include Bertrand of Britany 1908, Martin Vallant, The Prophetic Marricre 1920 Sorell and Son 1925 Old Pubs. 1928 Long & Pops 1929. The Exiles 1930 The Road 1931 Ven and Old 1932 Two Blart Sheep 1933 Loper & Pow 1929 Vew II ine and Old 1932 Sackeloth into Sill , 1930

Deer Family of solid horned ruminants They are found all over the world except in S Africa and Australia Their horns or antiers which are shed and renewed every year are borne by all the stags or male deer except the mush deer They are also Lorne by the females of the reindeer

Three varieties are found in Great Britain

the red, the roe, and the fallow deer The red deer is found wild in the Scottish High lands and on Exmoor There are also tame herds in various deer parks, where the fallow deer is also seen The flesh of the deer called venison can be eaten it one time it was an important article of dict especially among the rich hence every large house had its deer park

To day deerstalking is a popular sport in the Scottish Highlands where over 3 000 000 acres are given up to deer forests The season is from Aug 12 to Sept. 12 for stags, and from Avy 10 to March 31 for hinds, as the females

are called

Deerhound Breed of dog A rough lety of Scottish groyhound, it is used especially in deerstalking Brindled, fawn or blue, it has long tapering head and stern and well rohed loins. Quick running and keen scented, it averages 90 lbs in weight. The timost extinct Irish deerhound has reappeared y careful breeding

In law a failure to do some thing It is used when a person Default Default thing It is used when a person falls to defend an action brought against him in such cases judgment is usually given for the

other party

Protection against attack Defence the United Kingdom the de fence of the country from foreign enemics is in the hands of the navy army and air force, each with its own organisation It has been proposed that these should be combined into a single ministry of defence To consider the defence problems of the British Fmpire there is a Committee of Imperial Defence with a secretariat at 2 Whitchall Gardens, London, S.W. 2 There is an Imparial Defence College at 0 Studiescher Cetter. perial Defence College at 9 Buckingham Gate S W 1

Several warships have borne the name Defence One was the armoured cruiser that was sunk in the battle of Jutland

Defence of the Realm Form of martiai law established in Great Britain by the Defence of the Realm Act Ang 8, 1914 Colloquially called D O R.A. It was consolidated, Nov 27 1915 and amended Mar 16 1916 Under this legislation the King in council proclaimed during the Great War a multitude of regula tions affecting every aspect of the national concerned factories They railways lights bells, information, censorship, shop hours, enemy trading and food control. When the act laysed an Emergency Powers Act, 1920, onabled the Government departments

to keep many of its provisions in force especially those concerned with the sale of food and drint

Defender of the Faith Latin h dci defensor conferred on Henry VIII in 1521 It was a recognition by Pope Leo X of the King s treative defending the seven sacraments Withdrawn after the breach sacraments Withdrawn after the breach with Louis Pailiament reaffirmed it in 1514 and it remains part of the official designation of the British crown Inscriptions on coins usually show F D or f d d e f

Deflation Removal of the contents of volume. By analogy it denotes a reduction in the amount of paper money in circulation from 1911 to 1920 the volume of paper money increased enormously especially in France and Germany causing a great rise in price-

To check this the amount of paper money was gradually reduced, bringing prices down, and this was known as deflation. See REFLATION

Defoe Daniel English writer Born in son of a butcher, James Foe He studied at Stoke Newington to become a Nonconformist minister, but instead entered business life in London In 1613 he married and in 1685 took part in Monmouth's rebellion He was in the army of William III and soon after in the army of William III and soon after the revolution of 1688 began to write first as a supporter of the King In 1702 he wrote the ironical The Shortest II ap with the Dissenters, to whom he still belonged, and for this he was put in the pillory and imprisoned While in prison he started The Review a landmark in the history of English journalism At first a weekly, after a time it was issued three times a week until it ceased in 1713 In 1703 Defen was released and for the pext

In 1703 Defoe was released and for the next 25 years he was busy writing, though he found time to travel in Europe and to serve the government as a secret agent in Scotland and elsewhere His many political writing-have no permanent importance, but through them he exercised a potent influence of the founders journalism, of which he was one of the founders. But great as is his title to fame, it is overshadowed by that of the author of Robinson Crusoe, the first part of which appeared in 1719 Some of Defoe's other books include, The Journal of the Plague Year, The Political History of the Devil, The History of Colonel Jacl, and A Tour through Great Britain History include Moll Flanders Defoe lived at novels include Moll Flanders Defoe lived at Stoke Stoke Stoke Stoke Senting congregation, and then at Stoke Newington He died at Moorfields, April 26, 1731, and was buried in Bunhill Fields In 1931 the bi-centenary of his death was celebrated.

Degas Hilaire Germaine Edgar French artist Born in Paris, July 19. 1834, he studied there He soon won a reputa-tion by his paintings of dancing girls and was especially remarkable for his draughtsman-ship He died in Paris, Sept 27, 1917

adult stage has the form of a large sac without mouth or appendages.

Dehra Town of British India In the United Provinces, it is 70 m from In the Arabala, and is a railway function. It takes its name from the River Dehra and the district of which it is the capital is called Dehra Dun Pop 36,000

Deira One of the early English Lingdoms. It consisted of the land between the Tees and the Humber, and came into existence about 500, or later A century or so later it was united with Partial conductives.

Deism Bellet in a personal God, according from the world and recognised Belief in a personal God, detached

This current of by the light of reason rationalistic thought, denying Christianity and the supernatural authority of the Scriptures was incipient at the Reformation. It emerged In England through the teachings of Lord Herbert of Cherbury, who in the 17th centur-laid down its 5 ruling principles, and of Blount, lindal, foland, Woolston, Middleton, the rimum, round, woodston, Muddleton, the 3rd Earl of Shaftesbury, Collins and Bolingbroke Their influence reached Voltaire Rousseau and Diderot in France Eberhard Relmarus and Lessing in Germany English deism encountered the strength of the evangelish regions. of Religion, passed into the scepticism of Hume and preluded later developments of free thought Deism is distinguished from theism, which regards God as in touch with His creation

Dekker Thomas English dramatist Ho 1570 and passed his life there, but little else is known about him He was more than once in prison for debt, and died about 1632 Dekker wrote: number of plays some of them with Ben Jonson, Webster, Massinger, Middleton and other dramatists. His own include The Sheemal cr's Holiday and The Pleasant Comedy of Old Forlunaius With Middleton he wrote The Rouring Girl and with Ford and Rowley The Witch of Edmonton He also wrote The Gulls' Handbook

to Pretoria, 350 m away, and Delagoa Bay is the obvious outlet for the produce of the Transvaal. The ownership of the bay was a matter of dispute until 1875, when arbitration gave it to Portugal

De la Mare Walter John English poet at Charlton, Kent, April 25, 1873, and educated at the choir school of S Paul's Cathedral From 1889 to 1908 he was employed by a business firm in London but during this time Degeneration In biology a term used for modifications in certain organisms representing changes from a higher to a lower type of structure. It often accompanies parasitism This is seen well in the crustaccan family of the fish lice where in some the appendages are reduced, the eves absent and the antennae represented by hooks, in others the body is vermiform and other parts are correspondingly reduced and the reasonable for the crustaccan family of the fish lice where in some the appendages are reduced, the crustaccan family of the fish lice where in some the appendages are reduced, the crustaccan family of the fish lice where in some the appendages are reduced, and further volumes. A collected edition appeared in 1920 He also wrote collection of tales

Delamere Village and forest of Che-cheshire Lines Riv between Chester and Northwich Of the forest much has been put to agricultural uses, but some of it remains. The title of Baron Delamere has been borne since 1821 by the family of Cholmondeley

Delane John Thaddeus The son English jour-The son of a barrister, W F A Delane, he was born in London Oct. the fees and the Humber, and came into Listence about 500, or later A century or so later it was united with Bernicia and the two were called Northumbria. The boys seen by Pope Gregory in the slave market at Rome came from Delra. 11, 1817 barrister He Nov 22, 1879

Delane did much to make The Times the foremost paper in the land For nearly 40

vears he dictated its policy and in so doing set, an example of fearlessness and independence

Delaroche Hippolyte, often known as was born in Paris, July 17, 1797 He studied under Baron Gros and exhibited in the Salon from 1822 onwards The most popular of his paintings are, "The Death of Queen Elizabeth" and "The Children of Edward IV," but one of the greatest is the "Hemicycle," which decorates the amphitheatre of the Ecole des Beaux Arts, Paris He is represented in the Wallace Collection, London He died Dec 11, 1856

Delaware One of the Atlantic states of land along Delaware Bay covers only 2870 g m Dover is the capital, but Wilming ton is the largest town Two senators and one representative are sent to Congress, and there is a general assembly of two houses to manage state affairs Delaware became manago state affairs Delaware became British in the 17th century, and was one of 12th 13 original states of the union Pop (1930) 238,380

Delaware River of the United States It rises in New York State in the Catskill Mts, and separates that state from Pennsylvania and later, Pennsylvania from New Jersey It is 400 m. long and the chief town on its banks is Philadelphia It is navigable to Trenton and is much used commercially It falls into Delaware Bay, an opening of the Atlantic

opening of the Atlantic

De la Warr Baron English title It dates from 1299, when Reger de la Warr, a landholder in Susex, became a baron In 1426 it was inherited by Reginald West, a descendant in the female Reginald West, a descendant in the female line His descendant Thomas, the 12th baron (1577-1618), was the first governor of Virginia. The state and River of Delaware wore named after him John, the 16th baron, was made an earl in 1761. The 6th earl married a daughter of the Duke of Dorset, and since then the family name has been Sackville West. Herbert, Edward Sackville who heaves the 0th earl in 1015. who became the 9th earl in 1915, was a member of the Labour ministry in 1924 and again in 1929 31, and joined the National Government as Under Secretary for Agriculture French

Delcassé Theophile B DelCasse man Born at Pamlers, Mar 1, 1852, he became a journalist In 1889 he entered the Chamber of Deputies, and in 1892 was made under secretary for the colonies In 1894 he was made colonial minister and, after three years out of office he was chosen foreign minister in 1898 tained that post for 7 critical years until the dislike felt by Germany for his compelled him to resign in 1905 E policy He then became minister of marine which position he left in 1913 to become ambassador to Russia In 1914 he again became foreign minister, but he resigned in Oct 1915 Delease, who died Feb 21, 1924, had a good deal to do with bringing about the informal understanding between Great Britain, Russia and his own country, which materia lised at the outbreak of war in 1914 In foreign affairs he was the outstanding figure of the Third Republic

Delft Town of South Holland It is 5 m the little river Schle and is connected with the rapital by river rail and tram The so called "new" church is dedicated to S Ursula, and contains the burial place of the Orange family and a memorial to William the Silent The house in which William the Silent The house in was killed is now a museum Agneta Park is an industrial quarter. The town has some manufactures and a trade in agricul is an industrial quarter

some manufactures and a trade in agricul tural produce Pop (1932), 51,286

In the 17th century Delft was famous for its porcelain This became a flourishing industry and early pieces are very valuable. They are usually in blue with scenes from Dutch life crowded on to them

Delh1 City of India, the capital of the conthe Jumpa, 954 m NW of Calcutta Until 1911 it was in the Punjab but when it became the capital it was, with the surrounding district of 593 sq m placed directly under the Government and ruled by a Chief Commissioner

There have been several cities on or near the site. The present one was built by Shah Jehan in the 17th century and his work is seen in the palace, or fort, and the grand mosque, both unique buildings, the fort being entered by the famous Lahore Gate The tomb of Humayun is also notable Its native industries include metal work, ivory

arving, weaving etc The modern ones include flour milling and cotton spinning

About 5 m to the SW is the new city of Delhi This has wide roads and large open spaces, all laid out on a definite plan to give unity and beauty to the place A vast circular block of buildings with halls for the various parks of the legislature, a for the various parts of the legislature, a large library, and the viceroy's house was formally opened in 1930 A university was opened in 1922 Pop (1931) 305,883

Delilah Philistine woman beloved of Samson He revenled to her that his strength lay in his hair, so she treacher ously cut this off and betrayed him to his enomics The story is told in Judges xvi, 4 31

Delirium Condition of mental disorder generally accompanying a specific bodily disease More or less temporary if is a symptom of disease and treatment should be directed to its predisposing cause It may display incoherence, vivid ballucinations display incohorence, vivid hallucinations violent maniacal acts and coma Delirium tremens, an acute disorder supervening on chronic alcoholism, is marked by trembling especially in the early stages Raying delirium may accompany acute fevers and alcoholism and induce attempts at suicide

Delius Frederick British composer He was born of German parents Jan 29, 1863 in Bradford, Yorkshire, and in 1883 he went to Florida as manager of an orange plantation He gave up business for music, to which he had hitherto devoted his leisure. and in 1886 went to Leipzig where he studied composition In 1890 he settled in Paris His important works include concertos for violin violoncello, piano and violin and 'cello combined Appalachia, Sea Druft Requiem, Paris Brigg Fair, and other choral works On Hearing the First Cucl oo in Spring and other orchestral works In 1932 he produced an opera Koanga 1 Village Romeo and Juliet is his best known musical drama. Ho was made a Companion of Honour in 1929 and six festival concerts were held in his honour in London He died in June 19"1

Della Robbia Family of Florentine artists which gave its

lions He died in 1525, leaving five sons, three of whom were notable artists There are examples of Della Robbia ware in the museum at South Kensington

Deloraine District of Selkarkshire Scotthe Scott family The title of Earl of Deloraine was given in 1706 to Henry Scott, a son of the Duke of Monmouth It became extinct in 1807 when the 4th earl died Deloraine is the name of a town of Tasmania. It is 32 m from Launceston and is an agricultural centre

Delos Smallest of the Cyclades Islands in the Aegean Sea A floating island, Zeus made it stable, to provide a refuge for Latona, who there gave birth to Apollo and Artemis On it there was a magnificent temple of Apollo, now being averaged by the French Made a free port excavated by the French Made a free port by the Romans, it prospered greatly A league formed by Athens and other cities in 477 was called the Delian League, and its treasury was for a time at Delos

Delphi in ancient geography, a town passus It was the sent of the oracle of the Pythian Apollo, and was supposed to be the centro of the earth Greek cities and foreign princes sent rich presents to Delphi, and placed their treasures under the protection of the and of the received their treasures of the protection of the red. of the god The modern name is Kastri

Delphinium Genus of hardy ranun-culous plants, both biennial and perennial Delphiniums bear tall spikes of blue, mauve, or purple blooms, in many beautiful varieties They are grown from seed planted in April, and the seedlings transplanted for blooming the following year

Delta The word is used for the mouths Fourth letter of the Greek alphabet of rivers which bring down a great deal of alluvial deposit forming a mass round which the stream flows in two or more branches The delta of the Nile is the most famous The delta of the Ganges—Brahmaputra covers 50,000 sq m, and that of the Mississippi 12,000 Other rivers with deltas are the Danube and the Rhône

Delta Metal Class of brass alloys which contain iron in addition to copper and zinc, but extended now to brasses containing manganese, tin and aluminium as well as iron Iron increases the strength of the alloy, and the other the strength of the alloy, and the other additional metals impart particular properties. Delta metal is very fluid when melted producing fine-grained sound castings, and it can be worked either her castings. he worked either hot or cold

Deluge Great flood, pre-eminently that described in Genesis as overwhelming all living beings except Noah, his family and the animals which accompanied them in the art. them in the ark 'The Biblical story is paralleled in early Babylonian literature and in folklore all over the world Excavations at Ur and Kish (qr) have revealed deluge floors and ante-diluvian remains supporting the view that the story concerned local floods in the Luph rates valley

Delville Wood Small wood in France. It covers about 160 acres and is between Longueval

name to a famous ware Luca della Robbia and Ginchy On July 15, 1916, it was taken (1399-1482) brought to perfection the art of enamelling terra cotta. His nephew, Andrea (1435-1525) produced fine examples of enamelled reliefs adapted to friezes and medallons. He died in 1525, leaving five sons, love of the control of th crected there

Dementia Montal feebleness It may acute mental diseases. There is a specific form acute mental diseases of dementia called dementia paralytica-or general paralysis of the insane—in which there is marked physical deterioration as well as mental It is a fatal disease, though recently it has been treated with induced malaria, with good results Senile dementia, the general en-feeblement attending advanced life, accompanies arterial degeneration Dementia praecox is a form occurring at puberty Dementia affects a mind that is previously formed, Dementia amentia is mental deficiency from birth

Demerara River of British Guiana It rises in the highlands of the colony and enters the sea at Georgetown Its length is 180 m. and it is navigable for 90

Demcrara is also the name of a district between this river and the Berbice River It gives its name to the brown sugar which was first produced here

Demeter In Greek mythology, one of the Olympians She was the goddess of the products of the fields and the protectress of marriage She is best known for the rape of her daughter Persephone (Pro serpina) by Pluto, god of the underworld, and her wanderings to find the lost child

Torm used for the rule Democracy mocracy of the people A de-mocracy is a state in which the people, either directly or indirectly through representatives, decide their own affairs

The earliest democracies were the Greek states, but these were small and every citizen could take a personal part in the deliberations Somthing of this kind was the custom among the Anglo-Saxons and other Teutonic tribes and through these the idea of self government was kept alive

Partly through the influence of the Church, the representative system was evolved upon which the great modern democracies work In all of them, whether kingdom as Britain, or republic, as France, the will of the people, as expressed in voting for their representatives, is the ultimate authority. The people, long considered as being only the adult males, have come in the 20th century to include also the adult females

At the same time a certain impatience with democracy, once regarded as an ideal system, has manifested itself. In some countries a dictator has superseded assemblies elected by the people In Italy this movement against democracy has taken the form of Fascism

Democratic Party Political party in the US It arose soon after the formation of the Republic, and the presidents from 1801 to 1861 were nearly all Democrats. Since then only wore nearly all Democrats Since then only Grover Cleveland in 1884 and 1892, and Woodrow Wilson in 1912 and 1916 have secured election Its candidate at the election of 1928 was Alfred Smith, Governor of New York, who was defeated by Mr Hoover In 1932 Franklin Roosevelt was selected as candidate

It covers Democritus Greek philosopher, called the "father of physics"

Born at Abdera in Thrace, about 400 BC., he died about \$70 BC Following Leucippus he propounded an atomic theory of the universe, wherein all is movement in space. The soul is material, there is no Delty, and the summum bonum is pleasure without pain

Study of supernatural beings below divine Demonology divine rank, conceived as influencing mankind 'l he generalised animistic spirit world became specialised into corn demons disease demons and others Such spirits, all nameless, were recruited from discarnate spirits departed human and animal souls, and its offspring of incubi and other obsessions The attribution of personal names converted polydaemonism into polytheism, the unnamed spirits becoming agents of divine powers. The idea of moral dualism separating benignant angels from malignant demons, is a belief which characterises much popular superstition

Demosthenes Greek orator Born i Born in he began his career as a speaker by pleading against the guardians who had robbed him of his property. When addressing the people he falled through faulty pronunciation so he went into retirement in order to overcome this defect. He then reappeared in Athens and made

successful speeches in the courts

Turning to political life Demosthenes employed all his energies in opposing the designs of Philip of Macedon on Greece He fought in the Athenian army at Chaeronen in 3.18, but fled from the field in the disastrous detact. in 338, but not from the neighborhood defeat. After the death of Philip in 336 he took the lead in opposing his son Alexander In 324 he was imprisoned for laxity in safe guarling the public funds entrusted to him, but he escaped and lived for a time in exile in 322 he was recalled to Athens and he led an expedition against Antipater of Macedon This was beaten at Crannon and Demosthenes committed suicide on the islet of Calauria Many of his speeches have survived. The greatest are De Carona (on the crown), do livered after some Athenians had proposed to give him a goldon crown, and the Philippies, against Philip of Macedon

Dempsey Jack Irish American puglist is Wm Harrison He was a lumberjack before to ling up puglism and came into prominence when he defeated the world's heavy-wight champled. Less Willard at the dealyweight champion Jess Willard at Toledo in when he was beaten by Gene Tunney After his defeat by Tunney, Dempsey became a

film actor

Demurrage Shipping term When goods are shipped the charterer of the vessel signs a document known as a charter party, setting out the conditions of the transaction including the number of days allowed for loading and un loading if the stipulated time is exceeded a loading if the stipulated time is exceeded a charge, I nown as demurrage is made for each day in excess

Denarius Principal silver coin of re It was originally of the value of ten asses (about 91d) The denarus of the reign of Tiberlus is the penny of the New Testament About A D 215 it was so debased that it contained only 10 per cent of pure of the contained only 10 per cent of pure of the contained only 10 per cent of pure of the contained only 10 per cent of pure of the contained only 10 per cent of pure of the contained only 10 per cent of pure of the contained on the contained on

About A D 210 it was so depased that it contained only 40 per cent of pure silver

Denb1gh Borough and market town of Denbighishire disc the county town 30 m from Chester, on the LMS lily of the county are the sea caseft and a priory some Germany Much of it is very fertile and by

manufactures and a trade in agricultural produce Pop (1931) 7249 The title of Earl of Denbigh has been held

by the family of Peilling since 1622 The Farls ellest son is called Viscount Feliding His seat is Nownham Paddox, Warwickshire.

County of N Wales Denbighshire County of N Walcs It has a short coast line on the Irish Sea, beautiful scenery, and, in the k, lead and coal mines Denbigh is the county town other towns are Wrexham Denbigh is Ruthin and Conway In the county are Colvyn Bay, Llangollen and other pleasure resorts The rivers include the Dec Conway and Clwyd The area is 665 sq m Pop (1631) 157 645

Dendrite Crystalline structure in certain minerals In it the crystals diverge from one another and from a common axis so as to resemble a leaf or tree like growth this is seen in native copper and pyrolusite

recurring in sandstone

Dene-hole Ancient excavation chiefly found in Essex and Kent, E England At Grass, Lesex scores of them lie closely together They are bell shaped chambers sometimes with apses in curees and are reached by vertical shafts, 3 ft. ecross sunk through the sand for a distance the chambers were from 16 to up to 60 ft Sometimes utilised subsequently 20 ft. high for refuges the Britons perhaps sank them as siles for storing wheat

Village of Buckinghamshire Denham It is 2 m from Uxbridge and 14 from London, on a foint railway Denham Court and Denham Place are noteworthy houses Denham has become an outer suburb

of London

Denis French saint He was born in missionary in the time of the Emperor Declus He became Bishop of Paris, but about 275 he was beheaded by the Roman governor at Catullacus (now St Denis), and his tomb became the site of a priory In 625 Degobort founded a monastery there and man, French kings were burled therein Later, a Denis or Denys was made the patron saint of France His day is Oct 9

Denman London July 23, 1779 Thomas Denman was educated at Lion and S John s College Cambridge In 1806 be became a barrister and made a reputation by defending Queen Caroline in 1820 In 1830 Denman was really Attention Connect and in 1832 Lord Chief made Attorney General and in 1832 Lord Chief Justice He gied Sept 22, 1854 Denman's title, created in 1834 came in 1894 to a great grantson another Thomas

He, the 4th baron, married a of Viscount Condres and was Denman dan later of Covernor General of Australia, 1911 14

Denmark Country of Europe It con uninhand and several islands among them Zealand, I inch. Falster and Bornholm It includes part of Slesylg, which was restored to Donmark in 1919 The total great is 16 576 sq m and the pop (1932) 3 590 600 In addi-tion Danmark owns Greenland and the Farce halster and Bornholm Islands Iccland is independent but is under the same king Copenhagen sthe capital and the largest town Other centres are Aarhus, Odense Aalborg Horsons and Randers The borders of the country are the sea of butter, eggs and bacon is very large, some of outer, eggs and outen is very large, some thing like £50 000,000 being sent into the United Kingdom in a year The fisheries are valuable. The unit of currency is the krone, worth about 1s 1d, and the metric system of

weights and measures is in usc

Denmark's early history is very closely connected with that of the other Scandinavian countries, and at one time all were under the same ruler. The union was dissolved in 1448 when Denmark chose a king of the house of Oldenburg, but Norway and Denmark were united until 1815 In 1863 there was a crisis on the extinction of the ruling family Christian IX of Slesvig-Holstein was chosen king but slesvig and Holstein wore taken by Prussin after a short war In 1912 Christian X succeeded his father, Frederick VIII as king

The parliament, or Rigsdag, consists of two houses and the actual control of affairs is in the hands of a council or cabinet. There is an army raised by universal service and a small Lutheranism is the state religion Davy socialists are very strong in the country and formed the largest party in Parliament after the election of 1932

Denmark Hill Suburb of London It is in the borough of Camberwell, on the south side of the river Tere is King's College Hospital

Denotation In logic, all that is opposite is connotation, which means the pronorties of a thing Thus, man denotes all human beings, whether white, yellow, black or red Man connotes certain possessions such as a brain free erms and two legs

Density Property of matter It is defined in a unit of volume of a substance. The unit of density for solids and liquids is taken as that of distilled water, and the ratio of density of a substance to that of water is termed specific gravity

Denstone Village of Staffordshire It is 5 m from Uttovoter, on It is chiefly known for its Church of England school for 300 boys, founded

in 1873

Dent Word of twofold origin As a variant of OE dint, it denotes a hollow produced by blow or pressure Maize, because each kernel is depressed, is called dent corn When denoting a notch it is confused with the Latin word for tooth (dens) The French form often designates tooth-like Alpine peaks, eg the Dent du Midi

Dentist Specialist practitioner concerned with discass of the teeth and their treatment In Great Britain dental practice was systematised by the Dentists Act 1878, which instituted a register in the charge of the General Medical Council Unregistered persons were forbidden to use the term dentist or dental

practitioner

Since 1921 no person can be registered unless he or she has passed through a course of train

intensive methods of cultivation its production, it dial replacement. It studies the therapeutics of the mouth applying operative surgery for conserving, and prosthetic surgery for substituting Dental practice arose in antiquity Filling appeared in the 9th century, gold-foil treatment in the 16th century, gold-capping shortly after

shortly after
Fauchard who wrote Le Chirurgien dentiste,
1728, the father of modern dentistry, introduced specialised training, the bow and drill—
precursor of modern dental engines—porcelain
to a continuate the and the instead of Ivory for artificial teeth, and the retention of upper dentures, as false teeth began to be called, by suction Great advances were the invention of metallic and vulcanite bases for dentures, and the introduction of anaesthetics by gas administration or local injection. Nowadays systematic attention is given to mouth hygiene in Carly years correction of badly grown teeth, and inculcation of cleanly habits. There សស organised services in elementary schools and other institutions, dental hospitals, and an army dental corps. The Royal Dental Hospital of London is in Leicester Square, and in 1930 the Eastman Dental Clinic, said to be then the finest in the world, was opened at the Royal Free Hospital London, W C DENTISTRY AS A CAREER—There is a

growing demand for properly qualified dentists and good monetary rewards can be obtained both from private practice and from public appointments. The extension of school and linio dentistry provides more and more promising openings for women in the pro-

fession

Before he is legally entitled to practise, a student must have his name entered on the Dentists Register, and to qualify for this he must have obtained one of certain recognised Diplomas or Degrees The majority of the universities and some outside bodies grant a Diploma and at a number of the universities

degrees in Dental subjects may also be taken
Information is obtainable in the first instance
from The Registrar, Dental Board of the
United Kingdom, 44 Hallam Street, London,

At many hospitals and schools special arrangements are made for women students Communications should be addressed to the Deans of the schools or the Registrars of the universities

The fees payable for the Diploma Course vary considerably but the following may be taken

as an example

Pre-registration subjects Total tuition fees (payable in instal-	54 G	10	d. O
men.s) Books instruments, etc. Club subscriptions, admission fees, etc. Examination fees	280 75 20 11	0 5 0	0
Total	F ma	75	_

Scholarships are frequently available.

Dentition Arrangement of the teeth in vortebrate animals. Absent from birds, they are supplemented in reptiles and fishes by accessory teeth on the pulate he or she has passed through a course of training in the medical and dental schools in London and elsewhere The us all degree is LDS or licentiate in dental surgery, given by the Dental Board at 44 Hallam Street London, WI The interests of the profession are looked after by the British Dental Association at 23 Russell Square London WCI recording and several grinding teeth usually one-rooted and several grinding teeth usually with two or more roots those being promoted and the bindmost molars. In most Dentistry Department of curative premolars and the bludmost molars. In most teeth, their conservation extraction and artiDenton Market town and urban district of Lancashire It is 7 m from Manchester on the LMS Rly Hat making is the main industry Pop (1931) It is 7 m Rly Hot (1931)17.383

Denton Park, near Otley in Yorkshire, was long the seat of the Fairfax family

Denudation Action of the weather, rivers and sea upon rocks. It causes the disintegration of rock masses and the transport of the looser material to lower levels Subserial denudation is due to frost, glaciers, changes of temperature, wind rain and the chemical action of solvent waters of rivers By denudation, a granite may be decomposed into micaceous sands and china clay, while sedimentary rocks are built up from the debris of older ones

Denver City and capital of Colorado, It stands on the South Platte River, near the Rocky Mts with university, zoological and botanical gardens and an observatory Denver is an imporant railway junction and the market centre for the produce of Colorado There are some Pop (1930) 287,861 manufactures

Coniferous evergreen tree, Deodar similar to the cedar It forms extensive forests in the Himalayas at an altitude above 7000 ft., and also grows in Baluchistan and Afghanistan 11 sometimes reaches a height of 200 ft. The timber, which is light red in colour and very durable, is valuable in cabinet making

System of punishing criminals by transport Deportation ing them to penal settlements outside the country they inhabit The system is no longer practised in England, although undesirable allens can be expelled Criminals were at one time transported to Virginia, and later to Australia, but the practice was abolished in 1856 In France and certain other countries the system of deportation is still maintained for the worst type of criminals

Deposit Name applied to anything separated or laid down, cq, in chemistry the sediment of a liquid, and in geology a bed of material accumulated by

natural means

The word is also widely used for an initial payment as an earnest of good faith against which goods are delivered in a business trans action, and for a sum of money paid into a deposit account in a bank, withdrawal being subject to notice and interest being allowed

Deposition Evidence given on eath in a court of law It is particularly used for an affidavit, i.e., a state mont, taken down in writing to the truth of which the deponent afterwards swears

Deposition Process by which strata of water These strata represent the sediment deposited by streams, lakes or the sea At a river mouth transported material will be sorted into gravel and sand near the shore with clay and mud farther seaward Marine deposits are represented by organic cores and in the greatest depths by a fine red clay

Depôt French word meaning laid down, and used in England specificially for a place where goods are stored, eg., a furniture depot in America the word is used for a railway station for goods or passengers but in England it is used in this connection only for a goods station. In military matters, a depot is

a centre where recruits are received and trained. Each regiment has its depôt.

A depot ship is a ship that carries stores for a ficet at sea.

Depreciation Term used to denote a In particular it is applied to the percentage written off the book value of assets to reduce them to their market value. The Companies Act permits a company to pay dividends only out of profits, and to arrive at an accurate computation de preciation must be allowed for Income tax legislation allows certain deductions on account of depreciation from profit for tax purposes

Borough of the County of London It is on the south Deptford London side of the Thames between Bermondsey, Camberwell, Lewisham and Greenwich, with a short frontage on the river The parish church is an interesting building It includes much of the New Cross district Deptford is chiefly famous for its associations with the navy had a dockyard and a victualling yard in the 16th century or earlier John Evolyn's home, Saves Court, was in Deptford Peter the Great of Russia (q v) worked in the dockyards as a craftsman Pop (1931) 106,886

Depth Charge Form of submarine mine first used in the Great War It consists of a charge of explosive so arranged as to explode at a given depth The mine consists of a steel case provided with rings at either end for handling and enclosing a charge of explosive At the centre is a primer or detonator above which is placed the timing apparatus or "pistol"

Name applied in France and

Deputy Name applied in Fra elsewhere to the cleeted to the chamber of deputies members A clerk of the peace, a recorder, or a county court judge may appoint a deputy, but judges of the gupreme court cannot do so. In the city of London each of the aldermen has a deputy for his ward

De Quincey Thomas English writer Born in Manchester, Aug 15, 1785, he was educated at Worcester College Oxford, and afterwards lived in the Lake District, where Wordsworth and Coleridge were among his friends He married Margaret Simpson, and carned a living writing for the magazines In 1828 he moved to Edinburgh and he died there, Dec 8 1859

A man of powerful intellect, a wide reader and a real student, with an extensive knowledge of Greek, German and other languages, Do Quincey's career was marred by his addiction Nevertheless he ranks as one of the to oplum great writers of imaginative prose His Con fessions of an English Opium Eater first appeared in The London Magazine Notable too are his CESAYS On Murder Considered as One of the Fine Arts His essays show that he possessed considerable critical ability. They deal with philosophy, literature and history A delightful piece is The English Mail Coach He also wrote on political economy and produced one novel

Derating Term used in Great Britain property from rates By the important Local Government Act of 1929, agricultural land was entirely relieved of rates and premises devoted to productive industry including railways from three quarters of their rates. The loss to the local authorities is made good from the national exchequer

City of Fugland, the county town of Derbyshire It stands on the Derby

Derby s chief industry is the manufacture of rolling stock for the L MS Rly Until 1921 it was the headquarters of the Midland Riv There are motor-car and other engineering works Other products are lace, hosiery, silk, chemicals and chinaware The diocese of Derby covers the county and was created in 1927 The city has a famous Association football club, Derby County Pop (1931) 142,406

Derby give its name to a famous kind of porcelain known as Crown Derby This was first made in 1750 and is still produced, although not by the original firm There is a

fine collection in the museum

The Most famous horse race in Derby the world It was founded in 1780 by the 12th Earl of Derby and is run at Epsom on a Wednesday in May or June The course is 11 m long, and the race is confined Since 1900, except to three-year-old horses during 1915-18, when the race was not run, the winners and owners have been

1900	DIAMOND JUBILEE	Prince of Walex.
1901	VOLODIOVSKI	W C. Whitney
1902	ARD PATRICE	J Gubbins
1903		Sir J Miller
1904		L. de Rotherbild
1903	CICERO	Earl of Rosebery
1906	SPEARMINT	Major E Loder
1907		R. Crol er
1978		Chev Ginistrelli
1009		King Edward VII.
1910		Mr Fairle.
1911		J B Joel
1912	TAJALIF	W Raphael
1913		A. P Cunliffe.
1914		H B Durvea.
1919		Lord Glancly
1650		Capt. G Loder
1921		J B Joel
1922		Lord Woolsvington
1923		B Irish.
1924		Earl of Derby
1925		H E. Morri s.
1926		Lord Woolavington.
1927		F Curzon.
1928		Sir H Cunliffe-Owen
1929		W Barnett
1930		The Aga Khan.
1931	CAMERONIAM	J A. Dewar
19,5		Tom Walls.
1933	HTPERIOT	Lord Derby
1134	TI POPOR LAD	Maharajah of Pajpip's
1935	BARRAM	The Ara Khan.

Derby Earl of English title borne by the family of Stanley since 1485 Farlier it had been held by the family of Ferrers Thomas, Lord Stanley (died 1504) was made an earl by Henry VII, whose mother he had married as his second wife James, the 7th earl, was Lord of the Isle of Man, and his wife. Charlotte, was famous for her defence of Lathom House during the Civil War The direct line died out in 1736, when Sir Edward Stanley, a descendant of the 1st earl, became the 11th evil Lathorn House is the old seat of the family, but the earl's chief seat is now Knowsley, near Liverpool

Derby Earl of English statesman Born at Knowsley, March 29, 1799, he was educated at Eton and Christchurch Oxford He entered the House of Commons in 1820, and sat for a succession of constituencies until he sat for a succession of constituencies until he was made a peer in 1844, seven years before he succeeded to the earldom. At first a Whig, he was Under Secretary for the Colonies in 1827, and in 1830 Chief Secretary for Ireland In 1833 having supported the Reform Bill, he was made Secretary for War and the Colonies. was made Secretary for War and the Colonies, but, having freed the slaves in the West Indies, he resigned in 1834 In 1841 he became Colonial Secretary under Peel, and after 1846

Dervent, 129 m from London, on the LMS came out as the leader of the Conservative and LNE Rivs party In 1852 Derby became Prime Minister, Derby s chief industry is the manufacture and he held that office again in 1858-59 and 1866-68 He died at Knowsley, Oct 23, 1869 Derby, who declined to become King of Greece in 1863, was known as the "Rupert of Debate"

Two of Lord Derby's sons succeeded in turn to the carlom and both were prominent in public life Edward Henry Smith Stanley (1826-93), who became the 15th carl, sat in the House of Commons from 1848 to 1869 In 1858-59, as President of the Board of Control, he became the first Secretary for India In 1866-68 he was Foreign Secretary as he was from 1874-78, but he resigned in 1878 because he disliked Disraeli's foreign policy He then became a Liberal and was Secretary for the Colonies, 1882-85 He died April 21, 1893

Frederick Arthur Stanley (1841-1908), who hecame the 16th earl, was a soldier Having sat in Parliament from 1865 to 1836, he was made Baron Stanley of Preston in 1886 He was Secretary for War, 1878-80, and Colonial Secretary, 1835-86 He was President of the Board of Trade, 1886-88 and Governor-General of Canada, 1888-93 He died June 14, 1908 House of Commons from 1848 to 1869

Derby Earl of. English nobleman. Edward George Villiers Stanley was born April 4, 1865 After service in the Grenadier Guards, he entered the House of Commons in 1892 and sat therein until 1906 In 1895 he was made a Lord of the Treasury, in 1900 Financial Secretary to the War Office, and he was Postmaster General, 1903 05 He was Press Censor during the S African War, and in 1908 became Earl of Derby In 1915 he was made Director General of Recogniting and was responsible for the Dorby Recruiting and was responsible for the Derby Scheme, the last effort to obtain men for the army by voluntary means It added about 850,000 to the forces In 1916 Derby was made Under Secretary for War, and a little later be became Secretary From 1918-20 later be became Secretary From 1018-20 he was ambassador in Paris, and from 1922-24 Was again Secretary Company Secretary 1922-24 was again Secretary for War He was known as an owner of racehorses until his stables were closed in 1930 Lord Derby's two sons, Lord Stanley and Hon Oliver Stanley, were both elected to Parliament in 1924 and 1929, and the latter made a name as a speaker In 1931 he was made Under-Secretary to the Home Office

Derbyshire Inland county of England Into two distinct portions In the north is a mountainous and picturesque region called the Peak, in the south is a level region where coal is mined The chief rivers are the Derwent and the Dove Derby is the county town Industrial centres include Alfreton, Belper, Ruston Industrial centres include Alfreton, Belper, Chesterfield, Glossop and Ilkeston Buxton, Bakewell and Matlock are pleasure resorts, and the county contains Chatsworth, Haddon, Hardwick and many beauty spots in the Peak district, including Castleton with its caves Its area is 1016 sq m Pop (1931) 757,332

Dereham Urban district and market town of Norfolk in full East Dereham It is 102 m from London, and 16 from Norwich on the LNE Rlv The place has an agricultural trade Pop (1931) 5641

Derelict Property abandoned by the owner in a manner which indicates that he disclaims all right to it. More particularly it is used for ships ahandoned at sea by their crews Derelict ships, picked up and brought to British ports are kept by the

receiver until the owner can be found, but not for a longer period than a year and a day

Derg Name of two loughs or lakes of Ireland covers 25 sq m On it are several islands on one of which is a cave called St. Patrick's Purgatory once a popular place for pilgrims The river Derg flows from here to the Moyle, 17 m away.

The other Lough Derg is a widening of the Shannon between Killaloe and Portumna It

is 24 m long

Dermatitis Inflammation of the skin hends all such affections, whatever their cause Some types arise from local irritation, sunburn, frostbite, X-ray exposure, vegetable toxins such as poison lyy, animal parasites and ringworm fundi Blastomycetic dermatitis is due Occupational dermatitis, arising to a yeast. from external irritants, such as tars and dyes, usually develops cozema like forms

De Ros Baron English title It dates oldest in the peerage Its first holder was Robert de Ros and it was held by his des cendants until 1508 It passed to the Manners and then to the Villers family, and from 1687 to the Fitzgerald family, and in 1907 it came to a face that of the 24th horon who heave also daughter of the 24th baron, who became also Countess of Dartrey It passed in 1920 to her son Anthony Lucius Dawson

De Rougemont Name taken by Henri Louis Grin Born in Switzerland Nov 9 1847, he travelled in Australia, and later, in London, described the wonderful adventures he had met with among the Australian aboriginies His narrative was published in The Wide World Magazine, and he lectured before the British Association at Bristol Later it was discovered that Grin's stories were almost wholly imaginary He died 'n the infirmary at Kensington June 9, 1921

Derrick Stationary crane used in con structing buildings In it the In it the inclination of the projecting arm or tib can be altered by letting out, or hauling in the stay or supporting chain. A derrick can be rotated through part of a circle and may be mounted on a tower to increase the height of the lift.

Derry Old name for the city and county as Londonderry (v) Its bishop is still called the Bishop of Derry

Dervish Moslom devotee Throughout in Turkey and Persia a wandering mendicant called in Arabic speaking countries a fakir Throughout There is a loose relationship with Hindu fakirs furty fraternities, with innumerable sub orders include the Kalandarite order the termiliar calendars of the Arabian Nights (tifalite, or howling dervishes, Mevievite, or dancing dervishes and the modern Senussi Each fraternity has its directing sheikh, garb rule and ritual

Derwent Name of several English on tributary of the Trent It rises in the Peak and flows past Matlock and Derby being 60 m Its water is used to supply Sheffield,

Nottirgham Lelecster and Derby Another Dervent is in Yorkshire This is a tilbutary of the Ouse and is navigable to Malton It is 70 m long and is united by canal with

Poel lington

Another Derwent, 35 m long, is in Cumber land It passes through Derwentwater and Bassenthwaite on its way to the Solway

A river between Northumberland and Dur ham is a fourth Derwent. A tributary of the Type, it is 30 m long

There is a Derwent in Tasmania This flows for 130 m., from Lake St Clare to Hobart

Lake of Cumber land It is beauti Derwentwater fully situated near Keswick and is formed by the river Derwent It is 3 m long and about a mile wide In it are several islands Friar's Crag, now the property of the National frust, is one of several beauty spots. At the head of the lake are the Lodoro Falls

The title of Earl of Derwentwater was borne by the family of Radelyffe from 1688 to 1716 James Radelyffe, the 3rd earl, joined the Jacobites in 1718 and was captured and ovecuted in London, Feb 24, 1716 He igures in the ballads of the times The male line of this family died out in 1814 Aurora Borealis is called in Cumb urora Borealis is called in Lord Derwentwater's Lights" Cumberland

Desborough Lord English nobleman William Henry Grenfell was born Oct 30, 1855, and educated at Harrow and Balliol College, Oxford At the university he was famous as an oarsman and a runner From 1880 85 he was a Liberal M P for Salis bury, and he sat in the Commons as a Liberal Unionist, 1885 86 1892 93 and 1900 1905 In 1905 he was made a baron Two of Lord Desborough's sons Julian and Gerald, were killed in the Great War, the remaining one was killed in a motor accident His residence is Taplow Court near Henley, Bucks

Descartes René French philosopher mathematician Born in Touraine, March 31, 1596 he was educated by the Jesuits, but nover accepted their teach ing He saw a certain amount of military

ing He saw a certain amount of military service in France and Germany, and in 1625 settled in Holland In 1649 he went to Stock holm, where he died, Feb 1 1650

The founder of the Cartesian system of philosophy Descartes is one of the world's great thinkers His fundamental principle is the dominance of thought, expressed as "I think, therefore I am" His ideas are set out in his Discours de la Miliade, and more fully think, therefore I am" His ideas are set out in his Discours de la Méthode, and more fully in Meditationes de Prima Philosophia and Principia Philosophiae Equally eminent as a mathematician, Descartes is regarded as the founder of analytical geometry

Deschanel Paul Eugene Louis French Deschanel politician He was born in Belgium Feb 13, 1856 He received his education in Paris and entered the public service in 1876 In 1885 he entered the Chamber of Deputies, and in 1898 was elected the received the product of the common of Deputies, and in 1898 was elected its president, he held the post until 1904 and was again president from 1912 to 1920 In 1920 he was chosen President of the Ropublic in succession to Poincaré A little later he became an invalid resigned office in Sept 1920 and died April 28 1922

Deschapel won forme as an extended and the control of the c

Deschanel won fame as an orator and a writer His books include one on Gambetta In 1899 he was elected to the Academy His duel with Clemenceau in 1893 was a notable event.

Desert Region where, on account of intense cold or insufficient rain account of forms of life and little or no, vegetation can exist Where the mean annual minfall is less than 10 inches, desert conditions usually prevail Deserts are characterised by intense heat, as in the Sahara, or by great cold, as in the Arctic and Antarctic wastes Notable deserts are the Sahara and Kalaheri in Africa,

Destructor Form of high temperature the Gobi in Asia, the Atacama in S. America, and some in Australia

Desertion Word meaning to leave surreptitiously and without permission, particularly to the neglect of a duty Desertion from the army is a military offence punishable by death if the deserter is on active service Descrition of a wife by a husband is a ground for a judicial separation in Luglish law, and, if accompanied by adultery, for divorce

Process of drying sub-Desiccation stances by various methods such as by heat, dry air or chemicals having an affinity for water Desiccation enters into many economic and commercial processes, such as the drying of timbers, fruit, rubber, textiles, etc Among the chemicals used are quicklime fused chloride of calcium, and sulphuric acid

Desmid Group of minute green uniring in fresh water They show a great diversity of form, some being canoe shaped, others rounded, oval or trigonal Their cells consist of two symmetrical halves usually joined by an isthmus, and the cell wall is marked with delicate patterns like the diatoms

Desmond Earl of Irish title borne by the family of Fitzgerald and then by the family of Feliding It was given in 1329 to Maurice Fitzgerald and was held by the family until the 15th cord and was held by the family until the 15th earl died In 1619 the title was given to Richard Preston, Lord Dingwall, and in 1628 passed to George Feilding In 1674 George became Earl of Denbigh, and since then the two carldoms have leen held together by the Felldings

Desmoulins Camille French revolu-March 2, 1760, he became a lawver and a vriter He is famous as the man, who, on July 12, 1789, just after Necker had been dismissed, urged the crowd, "Aux armes!" and so started the Icevolution He then conducted the control of the a veelly paper to further the cause and had a share in destroying the Girondists He himself shared Danton's ideas and was guillotined, April 5, 1794

Despotism Arbitrary government. In ancient Greece a despot, the master of the household, was the ruler of claves. The title, applied to the absolute monarchs encountered in Western Asia, was given to the appearance of Constantial and the appearance of the constantial and the appearance of the constantial and the appearance of the appearance of the constantial and the appearance of the constantial and the constantial an given to the emperors at Constantinople covadavs despottem describes an arbitrary covernment, whether benevolent or male volent, which is uncontrolled by constitutional

restrictions Destroyer Short name for torpedo boat destroyer, a warship evolved as an ansver to the torpedo boat In the Luit so navy the first was launched in 1893 Their uses were extended and during the Great War they acted as scouts and screens for the fieets of bettleships and battle cruisers. In 1914 the largest British destroyer displaced 965 tons and steamed 32 knote Larger ones 765 tons and steamed 32 knots Larger ones vere built and by the end of the war they displaced 13.0 tons and steamed 34 knots and a further 23 were building. The largest of these were the A class the barrets of Canada these were the A class, the largest of which Dettingen Village of Bavarla Situated visplaced 15.0 tons, steamed 37 knots and Dettingen on the Main. It was the

Destructor Form of high temperature furnace, designed for the destruction of town or household refuse. It is used especially in thickly populated districts where other means of disposal of waste is not available In some towns the refuse is used as a fuel for steam production, and in a modern installation there may be, as accessories, electro-magnetic separators for iron, clinker crushers and screens, slab-making mills and presses, and also asphalt-making machinery

Detaille Jean Baptiste Edouard French artist. Born in Paris, Oct 5, 1848, he studied under Meissonier and first exhibited at the Salon in 1867. Three years later he joined the army, finding in his military experiences subjects for his most famous pictures His paintings include the "Salut aux blessés," 1877, "The Dream," 1888, and portraits of several royal personages He died Dec 23, 1912

Detective Member of a police force not in uniform His task is to discover information concerning wrongdoers,

investigate specific cases, watch individuals or classes of offenders, guard royalties and other prominent personages, and the like

The Criminal Investigation Department (CID) at New Scotland Yard, London, is the chief detective force in the country. The Metropolitan police also side on respect Metropolitan police also aids, on request, provincial police forces, which have their own detective organisations. Private detectives are persons engaged unofficially in obtaining in-

Stories about the detection of crime form a very popular class of fiction, and at least one imagnary detective, Sherlock Holmes, has become immortal The real founder of this class of fiction was Edgar Allan Poe For a full study of the detective novel see Masters of Mystery by H Douglas Thomson

Detonator Percussion cap or detonating powder used to fire a charge of explosive, either in firearms or in mining The explosive compound, or fulmincharges The explosive compound, or tulminate best known and used in percussion caps and detonators is fulminate of mercury, a greyish crystalline substance which explodes violently when dry. This fulminate is made by the action of a mixture of nitric and sulphuric acids upon metallic mercury A fulminate of silver explodes more readily and is used for acids upon metallic mercury some purposes

Detroit City of Michigan, USA It stands on the western side of the Detroit River, and owes its prosperity partive to its position near Lake Eric. There is a good harbour on the ower and the city is well served by railways. Detroit is one of the largest cities in the country. Here are the Ford cities in the country. Here are the Ford works, and factories for making machinery of almost every description There is an enormous trade along the river and where many of the workers live. At first a French trading station Detroit was at one Reitish possession. Pop. (1930) 1,568,662.

Canada

scene of the Battle of Dettingen (June 27, 1743), between the English, the Austrians and the Hanoverians on the one side and the French on the other In the end the main body of the allied infantry put the French to flight In honour of the victory, Handel composed his Dottingen Te Deum

Deucalion In Greek legend, a son of Phthia When Zeus resolved to destroy mankind by a flood, Deucalion entered an ark with his wife, Pyrrha, drifted for nine days and landed on Mount Parnassus Receiving an oracle which hade them cast behind them the bones of the great mother, they interpreted this to mean stones Those cast by Deucalion became men, those by Pyrrha women Their son, Hellen, was the supposed founder of the Hellenic race

Deuteronomy Fifth book of the Old Testament The title, "second law," is a Septuagint mistranslation of a Hebrew word meaning copy of the law lt comprises an historical introduction, i lv, an comprises an historical introduction, 1 iv, an exposition of the law, v xxvi, the renewal of the Covenant, xxvii xxx the delivery of the law to the I evites, xxxi, the song of Moses a psalm embodying his blessing and the account of his death, xxxii xxviv Apparently reaching its present form in Manasseh's reign, it inspired the reforms of his grandson, Josiah

Deutschland German name for their own country, as in the song "Deutschland über Alles
The Deutschland is the name of a German

submarine which made a voyage to the United States in 1916 in order to carry cargo 1918 she was surrendered to Great Britain

De Valera Eamon Irish republican Born in New York Oct 14, 1882, his father a Spaniard and his mother Itish, he was educated in Ireland and soon became active in the Sinn Fein movement He was chosen President of the Gaelle League, and in 1918 was elected M P for E Clare, but did not take his seat

When the Irish republic was proclaimed he was chosen President He refused to accept the treaty of 1921, and as the leader of the republicans made war upon the Free State
For a year he was in prison and on his release
he entered the Dall, where he led the republican party In the General Election of 1932, Mr de Valera's party were victorious, and he became President He broke the good relations with Great Britain by wishing to abolish the oath of allegiance and refusing to pay the interest on monor borrowed for land purchase On Dec 12 1935 De Valera urged the Dall to carry a bill to abolish the Senate This took effect in 1936

Developer Chemical substance used to formed by the action of light upon silver salts in a film of sensitive emulsion. The process consists of the reduction to a metallic state of the silver salts acted upon by the light

Development Commission

Department of the British Government It was set up in 1909 to assist the economic development of the country It consists of paid and unpaid commissioners, and its offices are at 6.1 Dean's Yard, Westminster S.W. With 61 Dean's Yard, Westminster SW With mone, granted by Parliament the Commission assists schemes for benefiting agriculture and fisheries improving harbours, afforesting, re claiming and draining land in fact any in fact any proposal which cannot be carried out by business men in the ordinary way

Deventer Town of the Netherlands. and the Schipbeel, 66 m from Amsterdam Some of the buildings are of great historic interest. Thomas a Kempls and Erasmus were educated at Deventer At one time it had a famous school the Athenaeum There are some manufactures and a trade agricultural produce Pop (1932) 36,930 trade in

Dev1 Hindu goddess The wife of Siva, she is shown as a woman with a coun tenance streaming with blood Round her are snakes and skulls Sometimes she is shown riding on a tigor Human sacrifices were

offered to placate the roddess

Devil Evil spirit, pre-eminently the darkness Apart from the personalisation of forces hostile to God observable in the Eden story, the doctrine of a personal devil does not omerge clearly in Hebrow thought until after the Exile, when a personality called Satan, sometimes—under Philistine influence—Beelzo bub, was conceived, he was in some measure subservient to the Almighty This conception, passing into Christian philosophy became very powerful in the Middle Ages The doctrine of a malignant personality whose temptations must be withstood is officially recognised by Roman Some Protestants accept the Catholicism same doctrine, although in very varying forms. but others reject it.

Devil's Bridge Beauty spot of Wales. Shire, 11 m from Aberystwyth, on the Vale of Rheidol Rly Here two bridges cross the Mynach, one above the other The lower one was bullt in the 11th century by the monks of

Strata Florida.

Another Devil's Bridge is in Switzerland This was built across the River Rouss in 1830 It is near Andermatt on the way to Italy and is

nearly 5000 ft. high

The word devil is much used in place names There are Devil's Dykes in Sussex, Norfolk and Cambridgeshire The one in Sussex, 5 m from Brighton, is the property of that borough The Devil's Jumps are three hills near Hindhead in Surrey, and there also is the depression called the Devil's Punchbowl Another Devil's Punchbowl is near the top of Mangerton, Kerry A Roman road in Northumberland, about 60 m long, is called the Devil's Causeway The term "devil's advocate" is used in the

Roman Catholic Church for one who is deputed to bring forward objections to a person whom

it is proposed to canonise

The devil's coach horse is a name given to a black beetle found in Great Britain It is also known as the cocktail beetle
The Devil's Own is a name given to the Inns
of Court Officers Training Corps

Devizes Borough and market town of London by the G W litshire It is 86 m from London by the G W lity and is also on the Kennet and Avon Canal It is an agricultural centre, with important markets Bacon curing and browing are its industries Pop (1931)

Devin Joseph Irish politician Born in Belfast in 1872 he was educated by the Christian Brothers In 1902 he was elected M P as a nationalist for N Kilkenny and from 1906 to 1922 he represented W Belfast He was again returned in 1925 and in 1929 was elected for Fermanagh and Tyrone

From 1921-25 he sat in the Parliament of Ilfracombe, Paignton, Dawlish, Sidmouth and Northern Ireland Died Jan 1934 | Teignmouth.

Devolution (Lat devolvere, to roll down) Act of handing over something It is used for a kind of home rule suggested in 1904 as a settlement of the Irish difficulty, namely, the establishment of a parliament or council to manage local affairs under the supreme authority of the Parlia-ment at Westminster The war of 1667-68 between France and the Netherlands is called the War of Devolution

Earl of English title held by the Devon family of Courtenay an Earl of Devon soon after 1066 a member of the De Redvers family About 1335 the title was given to Hugh de Courtenav More than once his successors forfeited it, but it was again bestowed upon a Courtenav in 1485 and in 1553 In 1556 it fell into abeyance and was not revived until 1831 The earl's seat is Powdorbar Castle Earles Powderham Castle, Exeter

Devonian System of rocks forming part of the Upper Palaeozoic division and including the Old Red Sandstone These rocks are found in Devon and Cornwall forming deposits of marine origin, and in South Wales, Herefordshire and Scotland, forming a series of lacustrine or estuarine origin (Old Red Sandstone) The Devonian rocks are divided into Upper, Middle and Lower, and consist of grits, sandstones, slates and limestones with numerous fossils. The Old Red Sandstone in Scotland is rich in fish remains

Devonport District of Plymouth, at one time a separate borough It stands on the estuary of the Tamar, called the Hamoaze, and is 224 m from London Devonport is one of the chief stations of the British Navy. At Keyham is the training college for engineer officers A dockward was opened here in 1691, and until 1824 the place was called Plymouth Dock In 1914 it was united with Plymouth (q r)

Also town and port of Tasmania It stands at the mouth of the River Mersey, 80 m from Launceston, on the north side of the island It is connected by railway with Hobart and other towns, and from here steamers go to Melbourne Pop 4950

Devonport Viscount English mer-Hudson Ewbanke Kearlev was born Sept 1, 1856, and soon entered business life He built 1856, and soon entered business life. He built up the business of Kearley and Tonge and became also the head of the International Stores, both firms dealing in provisions. In 1892 he was elected Liberal M P for Devonport, and from 1905 09 was Secretary to the Board of Trade. He left office to become Chairman of the Port of Leadon Authority and in 1916 17. of the Port of London Authority and in 1916-17 was Food Controller In 1908 he was made a

long end irregular constline on both sides and is famous for its heauty 1t covers 2610 sq m and is separated from Cornwall by the Tamar

The county has such famous beauty spots as Clovelly and Lynton In it is Dartmoor and part of Lymoor The rivers are the Dart and the Teign, the Exe and Tavy, the Tamar and the Plyn Lundy Island is part of the county It is an agricultural county, famous for its cream while fishing is an important industry Devon while fishing is an important industry Devon sends seven members to Parliament and is in the Diorese of Exeter It is the background of novels by Charles Kingsley, Eden Philipotts and R. D Blackmore and is the subject of extensive literature Pop (1931) 732 869

Devonshire gives its name to a famous regiment, formerly the 11th foot. This was raised in 1685 and has a fine record of service including South Africa, 1900 and the Greet

including South Africa, 1900, and the Great War Its depot is at Eveter and its motto is

The Devonshire was the nameship of six cruisers built between 1903-05. The other five were Antrin, Argyll, Cacrnarton, Hampshire and Rozburgh. In 1929, the earlier ship having been scrapped, a new Devonshire was completed. This is a cruiser of the London class and displaces. It 1000 tone.

and displaces 14,000 tons

A breed of cattle is known as the Devon
These are famous both for their beef and for their milk. They are deep red in colour and have been bred in Devonshire for at least two centuries

Devonshire Duke of. English title borne since 1694 by the family of Cavendish Sir William Cavendish and his wife, Bess of Hardwick, had a son, William, who inherited large estates in Devon-William, who innertied large estates in Devonshire In 1618 he was made an earl and in 1694 his descendant, William, the 4th earl (1640-1707), one of the supporters of William III, was made Duke of Devonshire William the 4th duke, was Prime Minister, in name at least, in 1756-57 The wife of the 5th duke, Georgiana, a daughter of Earl Spencer, was the famous and with large who was painted the famous and witty lady who was painted by Gainsborough and Revnolds In 1858 the 6th duke died unmarried, and the title passed to a cousin, until then known as the Earl of Burlington Another William Cavendish, Le became the 7th duke, and was known for his

The duke has large estates in Derbyshire he also owns valuable land in Fastbourne and His chief seat 18 around Barrow-in-Furness Chalsworth, others are Hardwick Hall, Bolton Abbey and Lismore Castle, Waterford His eldest son is called the Marquess of Hartington

Devonshire House, Piccadilly, long the London residence of the duke, was sold in 1919 and later pulled down The site is now occupied by shops and flate The Devonshire Club, at 50 St James's Street, London, is a social club founded in 1875

vas Food Controller In 1908 he was made a sparonet, in 1910 a baron, and in 1917 a viscount He died in Sept., 1934

Devonshire Western and maritime third largest in the country Lying between the Bristol and the English Channels, it has a long end irregular constline on both sides and is long and irregular constline on both sides and is long at Lord of the Administry and then Understanding the Lord of the Administry and then Understanding the long and the Lord of the Administry and then Understanding the Lord of the Administry and then Understanding the long and the Lord of the Administry and then Understanding the long and the Lord of the Administry and then Understanding the long and the Lord of the Administry and then Understanding the long and the Lord of the Administry and then Understanding the long that the long the long that the long tha made a Lord of the Admiralty and then Underfamous for its beauty. It covers 2610 sq m and is separated from Cornwall by the Tamar Exeter is the county town, but Plymouth is the lurgest city. Other places are historic seaports, such as Bideford, Brixham, Barnstaple and Dartmouth, and there are picturesque inland towns such as Tiverton, Honiton, and Tavistock, and watering places such as Torquay,

In 1886 Lord Hartington separated himself from Gladstone on the question of Home Rule, and became one of the Liberal Unionist leaders. He was out of office until 1895, when he joined the Unionist ministry as Lord President of the Council He held this post until 1903, when he resigned rather than abandon his Free Trade principles. He died without sons March, 24,

Victor Christian William Cavendish was born May 31, 1868, a son of Lord Edward Cavendish and a grandson of the 7th Duke of Devonshire He wont to Eton and Trinity College, Cambridge, and in 1891 was elected Unionist M P for West Derbyshire In 1900 he joined the Unionist Government, in which he held office as Treasurer of the Household and then Financial Secretary to the Treasury (1903 05) In 1908 he succeeded his uncle in the dukedom and estates From 1916 21 the Duke was Governor General of Canada, and in 1922 24 Secretary for the Colonies. He is a K C, and his public positions include Chancellor of Leeds University and High Steward of Cambridge University

Dew of drops of water upon the ground or objects near the ground It is due to the fall of the night temperature to that point at

Dew definition to denote the deposition of drops of water upon the ground or objects near the ground it is due to the fall of the night temperature to that point at which saturation of water vapour occurs (dew point) and moisture is extracted from the air Dew is deposited on a clear night upon objects cooled by radiation and causes a liberation of heat thus objecting a further fall in temperature. See Drw Pond

Dewat Baron. Scottish merchant Jan 6, 1864, and joined his father who was in business as a distiller The firm, John Dewar and Sons grew enormously, Thomas becoming the managing director From 1900 06 he was Unionist M P for St Georges Tower Hamlets In 1917 he was made a baronet and in 1919 a peer Lord Dewar won a reputation as one of the wittlest speakers of the day and was a racchorse owner He died, April 11, 1930, and his title became extinct. His nephew and heir, Capt J A. Dewar, is known as an owner of racchorses

Dewar's brother, Arthur Dewar (died 1917) was Solicitor General 1909-10, being then made a law lord, when he took the title of Lord Dewar

Dewar

Dewar

Sir James. Scottish scientist

Born at Kincardine Sept 20
1842, and educated at Edinburgh, he soon
began the experimental works which brought
him fame the chief of these being to find
methods of liquefying and freezing hydrogen
and other gases. His inventions made the
vacuum or thermos flash, possible and he
helped Sir F. Abel to discover cordite. In
1875 Dewar was made Jacksonian professor of
experimental philosophy at Cambridge and in
1877 Fullerian professor at the Royal In
stitution, London. He was president of the
British Association in 1902, was knighted in
1904 and died, March 27, 1923

The state of the service of the service of

Dewberry (Rubus caesus) Species of with fruit resembling that of a blackberry The drupes of the berry which are larger and considerably less in number than those of the blackberry, are covered with a bluish bloom while the flavour is somewhat acid In America the species rubus villosus, is cultivated extensively, as are others

th ated extensively, as are others

De Wet Born in the Orange Free State

Oct. 7, 1854, he became a farmer there In 1880 1 he served with the Boer army, and from 1885 to 1897 he was a member of the legis lature of the Free State In 1899, when war broke out, he was one of the Boer leaders and in 1900 he was made Commander in-Chief of the Free State army His extraordinary skill in the guerilla warfare of 1900 02 made his name widely known In 1907 De Wet entered the legislature of the Orange River Colony, and was made minister of agriculture In 1914 he joined the rebels and met with some success, until taken on Dec 1, 1914 He suffered a short imprisonment and was fined He died Feb 3 1922 He wrote an account of the war of 1899 1902

Dew Pond Name given to small ponds found on the high ground of the chalk downs of southern England They are supplied with water by condensation of the thick mists and heavy dews frequent upon the downs in the summer In making a dew pond the excavation is lined with straw, over which puddled clay is placed, and above this a laver of stones When the pond is properly made the supply of water is perennial and is a great boon to farmers

Dewsbury County borough of Yorkshire (W.R.) It is 182 m. from London and 8 m from Leads, on the L M S and L N E Rlys It is also served by the Aire and Calder navigation system Dewsbury is famous as the centre of the manufacture of blankets and shoddy It sends one member to Parliament. Pop (1931) 54 303

Dextrin Colourless tasteless powder ob starch alone, or with acids or by the action of diastase upon starch. It is known also as British gum. The commercial product often contains soluble starch and probably unaltered starch and glucose and varies in its properties according to the mode of preparation. Dextrin is used for many purposes as a substitute for gum arabic, for the stiffening and finishing of fabrics, for thickening inks and as an adhesive for postage stamps

Dextrose Alternative name for glucose from the action of the sugar It is so called from the action of the sugar upon polarised light which it turns to the right (dexter) It is found naturally in grapes and other fruits and is prepared from the starch of maize potatoes etc, by boiling with dilute sulphure acid and is obtained in the form of a syrup or as hard masses It is used as a sweetening agent in browing and in confectionery

Dhak E Indian tree of the leguminous order (Buten frondosa) Abundant throughout India it has bright orange red flowers which yield a fugitive vellow dye, and seeds which furnish moodooga off It exades a latex hardening into a brittle, ruby tinted gum called Bengal kino The fibre serves for cordage, the wood, leaves and flowers are used in relictous corronales.

In religious ceremonies

Dhole Wild Indian dog It chiefly inhabits
the jungles of the Deccan is some
what larger than the jackal and differs from
true dogs in lacking the last lower molars In
colour it is bar with darker motilings It hunts
in packs of 50 or 60, almost silently, and is
capable of running down elephants and
eccasionally tigers

Dhow Vessel of about 150 or 200 tons burden, generally with one must and a lateen sail. It is much used in the Arabian

containing plagioclase felspar and augito, this has become chloritised The diabases form intrusive masses among other rocks in N and S Wales, the Lake District, N Scotland and Ircland

Diabetes Discase characterised by habitual excessive discharge of urine Two forms occur diabetes mellitus or persistent glycosuria, in which the urine contains more or less grape sugar, and diabetes insipidus or polyurla, involving no abnormal ingredient. The cause of diabetes mellitus is a fallure of the insulin-secreting endocrine gland of the pancreas, and treatment is by replacing the deficient insulin by injections of this substance and by careful regulation of the dietary. Starchy foods should be avoided as far as possible

Diaghileff Serge Paulovich Russian Born March 19, 1872, he studied art and organised exhibitions of art in St Petersburg About 1907 he went to Paris where he produced operas and plays which attracted much attention by the beauty and novelty of their staging, while his ballets were a landmark in the history of stage dencing Soon he carried his ideas to London, Berlin and New York, and in these and other cities sustained his reputation as a producer of rare and original genius He died Aug 19, 1920

Diagnosis Term denoting the act of distinguishing a disease by its symptoms The branch of medicine concerned with the observation and interpretation of the signs of disease, called diagnostics, may involve studying the patient's past medical history, noting the temperature and pulse and making laboratory tests

Diala River of Persia and Iraq Rising in the Persian highlands it runs south and west, forms part of the boundary between the two countries and, entering Iraq, joins the Tigris just below Bagdad There was some fighting along the river during the British advance to Bagdad in March 1917

Dialect Local veriant of a language The word denotes the collective variations in pronunciation, vocabulary and syntax that are due to geographical conditions When these variations become unintelligible to those in related communities the dialect becomes a language. Thus the primitive Arvan speech passed through dialetic variations into the separate languages of Greek, Sanskrit, Latin and others, Greece has its Ionic, Doric, Acolic, Attle and other dialects, the peasant dialect of Tuscany became the literary language of Italy

In England there are many Dictionaries of these have been published and

Dialysis Method (invented by Thomas Graham) of separation of colloid and crystalloid substances from a solution First claborated in 1861 it is found that colloidal substances such as gum and gelatin will not pass through a parchment membrane, which crystalloids readily diffuse through The apparatus used consists of a glass vessel (dialvecr) with a parchment bottom, containin a solution of both types of substances. The dialyser is suspended in a vessel of water, and the crystalloids slowly diffuse into the water conving the colloids in the upper vessel

Sca and along the coast of E Africa (sometimes as a slaver)

Diabase Name somewhat loosely applied in particular to an altered basic rock. Originally containing plagicelase felspar and augite, this being plagicelase felspar and augite, this being the nearest fraction to the exact decimal

Diamond Crystalline form of carbon It is found in nature as waterworn pebbles, or grains, in river gravels and other alluvial deposits, also in conglomerates and sandstones in S Africa, India, Brazil, Borneo and elsewhere The crystals belong to the other statements and carbon in catalogue and the cubic system and occur in octahedra and dodecahedra often with curved faces They are usually white, but yellow, red and other colours also occur The diamond is one of the most popular of gem stones, owing chiefly to its lustre It is the hardest substance known and therefore is used as an abrasive

More than half the world's supply is produced in S Africa, but the Borneo and Australian diamonds are preferred for abrasive purposes The S African output in 1931 was valued at over £4,182,523 Two of the finest diamonds ever found are the Koh-i-Nor and the Cullinan,

both among the British crown jewels

Diamond Sculls One of the chief

It was first rowed in 1844 and is confined to

amateurs The course is 1 m 550 yds long It is for single scullers

Diana Roman divinity identified with the Greek Artemis She appears as the goddess of light, as mistress of the groves and as Hecate She is represented as a huntress bearing a torch, and was regarded as possessing the virtue of chastity Probably on this recount she was worshipped as the goldess of women and childbirth Many temples were erected in her honour, the most famous being the one at Ephesus

Dianthus Genus of herbs of the carna-native to the N temperate regions and to S Africa Of 70 species, several grow wild in Britain, notably the Maiden, Deputord and Cheddar pinks The Mediterranean clove pink originated all the garden varieties of carnation, from the pheasant's eve come many garden pinks, the bearded pink and the sweet williams

Diapason Musical term used in acoustics Diapason normal signifies the pitch standard of 435 vibrations per second for the production of middle A Fixed in 1859 by the French Academy this is known as the French or international pitch

Diapason signifies also a series of organ stops of eight and sixteen feet. It is poetically synonymous with the range of compass of a voice or instrument

Diaper Textile fabric usually of linen or conventional woven pattern uniformly repeated

Diaper patterns, geometrical and floral mostly derived from Byzantine textiles, are also seen on mural surfaces, sculptured in low relief, painted, or gilded, and in tackgrounds and fillings of illuminated manuscripts, on stained glass, tiles, incised brasses and heraldic compositions

Diaphragm In men and some animals, membrane separating the chest from the abdominal cavity. Attached continuously to the chest's lower margin it comprises muscular fibres surrounding a trefoil shaped tendon It is pierced by the gullet north, inferior venu

It is cava, certain nerves and small vessels. It is lined beneath by the peritoneum enclosing the abdominal organs, and above by membranes enclosing heart and lungs It contracts and

relaxes with breathing, and plays the chief part in respiratory motion

Diary Daily record of events or transac tions The words diary and journal have the same ultimate origin When the diorist notes all matters within his personal experience and observation, or those communicated by others, his record sometimes makes valuable contributions to historical or scientific knowledge Some of the greatest, as Pepys's and Wesley's, were kept in cipher, with no thought of ultimate publication Some, as Evelyn's, hear traces of subsequent elaboration Greville's and Creevey's are diaries of great historic interest

D1az Armando Italian marshal Born in Naples, Dec 5, 1861, he entered the army in 1881 and rose to be a general Com mander of an army corps in 1916, in Nov, 1917, after Caporetto, he was made Commander in Chief and in 1921 received a dukedom He died Feb 29, 1928

D1aZ José de la Cruz Porlirio Mexican President. Born at Oaxnee, Sept 15, 1830, he became a lawyer In 1854 he was a lender in an insurrection, and his military taients brought him to the front He led the Mexican Army in the struggle against the Emperor Maximilian and in 1877 was elected President. He was re-elected every succeeding. President. He was re-elected every succeeding four years until 1910 Under his rule order was restored and Mexico enjoyed considerable prosperity, although he had many enemies In 1911 a rising forced him to resign and he left the country to die in Paris, July 2, 1915

Dibdin Charles English song writer Born in Southampton, March 4, 1745 he settled in London and in 1762 his operetta The Shepherd's Artifice was produced at Covent Garden Of his many songs "Tom Bowling and 'Poor Jack" are the best known He also wrote novels and an Auto biography Dibdin died July 25, 1814

Dibon City of Palestine It lay to the east of the Dead Sea and was one of the cities of the Amorites Here in 1868 the Moablte Stone now in the British Museum was The village called Dhiban stands discovered

on the site

Dicey Albert Venn English jurist. A son of T E Dicey he was born in 1835 and educated at Balliol College, Oxford He became a barrister, and in 1882 Vinerian Professor of English Law at Oxford He

riciessor of English Law at Oxford He resigned in 1909, and died April 7, 1922
Diccy's most famous work is his Law of the Constitution, 1885, whilst his Case Against Home Rule helped to defeat Gladstone s bill His Essay on the Privy Council is a valuable text book.

Diccy's brother Times and the Prival of the Council is a valuable text book.

Dicey's brother Edward (1832 1911), Cambridge man, was also a forecful and able writer from 1870 89 he was editor of the Observer He died July 7, 1911

Dick in Glasgow in 1879 he was educated the man in Jarden and source and in Jarden and source and in Jarden and source and the Jarden and source and the source and source and source and the Jarden and source and so

there and in London and soon made a name for his figures in stone and bronze His worl may be seen in the Kitchener Memorial Chapel in S Paul's Cathedral London on the Venin Gate at Ypres and elsewhere "Femina Viotrix' is in the public galleries of Sydney Dick was elected A R.A in 1921 and R.A in

Dickens charles English novelist Born at Landport, Portsea Feb 7, 1812, he was the son of a clerk in the navy, and his full name was Charles John Huffam Dickens In 1814 the family moved to London The father fell on evil days and was imprisoned for debt so Charles worked as a child in a factory, before obtaining a little schooling at Camden Town Later he entered a solicitor's office, learned shorthand and became a fairly success-Hogarth, from whom he separated in 1858
They had a family of seven sons and three
daughters One son, Henry Fielding Diekens,
became a successful barrister and a K C

In 1833 Dickens began to write fiction and, calling himself "Boz." publis led some sketches calling himself "Boz," publis led some sketches of London life in the Evening Chronicle In 1836 the first part of The Pickinck Papers appeared in serial form This was a great success and its author's fame was assured He left his reporting work and became editor of Eventeu's Missellant in 1837. Lithbooks He left his reporting work and became editor of Beniley's Missellany in 1837 In this Oliver Twist appeared, and then came Nicholas Nichleby, The Old Curiosity Shop and Barnaby Rudge After a visit to America he wrote Martin Chuzzlewii and then followed A Christ mas Carol, and others of The Christmas Tales In 1846 he was for three weeks the first editor

of the Daily News
For the next 17 years Dickens was busy
writing and giving public readings from his writing and giving public readings from his works in both Britain and America, these being very popular in both countries Dombey and Son appeared in 1848, and David Copperfield in 1850 A Tales of Two Cities was published first in All the Year Round, as was Great Expectations in All the Year Round, as was Great Expectations
Our Mutual Friend appeared in 1864 In 1865
Dickens broke down in health, but he con
tinued his readings and began to write The
Mystery of Edwin Drood Before it was finished
he died at Gad's Hill, near Rochester, a house
he had bought in 1856, on Jan 9, 1870
In one respect Dickens is much the greatest
of English novelists No one has approached
him in the creation of characters whose names
are household words Pickwick, Sam Weller,
Micawber, Stiggins, Little Noll, Bill Sykes and
Mark Tapley are a few out of many He
nossessed, too, remarkable gits of humour and

possessed, too, remarkable gifts of humour and pathos and unrivalled powers of description The memory of Dickens is kept alive by the

Dickens Fellowship, which has branches all over the country Its headquarters are at 48 the country Its headquarters are at 48 Doughty St London, WC1 where a Dickens Museum has been opened There are several lives of Dickens including a critical one, This Side Idolatory, by C E Bechofer Roberts, 1928

Dicksee Sir Francis Bernard Luglish artist He was born in London, Artist He was born in London, Nov 27, 1853, and first exhibited at the Royal Academy in 1876 He was elected R A in 1891 and chosen president in 1924 He was one of the lenders of the older academic school expressing art in sentimental or poetic form combined with wellets though a company with realistic though a company of the company of combined with realistic though somewhat combined with realistic though somewhat mechanical technique. His numerous paintings include Harmony "and 'The Two Crowns' in the Tate Gallery, London, and Reverie' in the Liverpool Art Gallery. In 1024 he was knighted, and died Oct. 17, 1928

Modification of the phone.

Dictaphone Modification of the phono the dictation of letters, etc. The letter or message is spoken into the mouthpiece of an instrument having a revolving wax cylinder upon which a record is made. The cylinder is then tell on by the twict and placed in then taken by the typist and placed in a transcribing machine and, by means of a pair

of receivers placed over the ears, the message can be heard and typed

Dictator Originally the name of an office under the Roman Republic Its holder was a magistrate appointed in times of creat difficulty and invested with wide powers The office was abolished by Antony in the year The name is now generally applied to any official exercising supreme power in any

country or office
The S American States have had dictators nt various times and after the Great War they arose in several European countries Mussolini in Italy and Hitler in Germany are the most prominent examples of the modern dictator

Dictionary Primarily a book giving in meanings of words and their correct spellings More elaborate dictionaries give full and detailed etymologies with quotations showing the use of the word in question. Of English dictionaries one of the first was compiled by samuel Johnson, the most elaborate is the New English Dictionary, edited by J. A. H. Murray There were, however, dictionaries complied by Jewish and Arabic scholars in the

9th century or earlier
The word is used sometimes for a book which gives the English meanings of the words in a foreign language, e.g., Greek or French, but these are more correctly called levicons Books containing biographies, quotations, etc., arranged in alphabetical order are also called

dictionaries

Didcot Town of Berkshire It is 7 m from Abingdon and is an important junction on the GW Rly which has Pop 2160 works here

Diderot Denis French writer. Born at Langres, Oct 5, 1713, he was educated by the Jesuits, but refused to accept their teaching The great work of his life was the preparation of the Encyclopédie, which appeared in 17 volumes between 1751 and 1765 Diderot also wrote novels and plays, some volumes of criticism artistic and literary, and a book on acting He died July 30, 1784

Dido Princess of Tyre Her brother Pygmalion having killed her husband Sichaeus, she fled to Africa and founded Carthage To escape wedding Iarbus the Carthage To escape wedding Iarbus the Gaetulian, she creeted a pyre and stabbed herself upon it Virgil makes Dido contemlerself upon it Virgil makes Dido contemporary with Aeneas, at whose departure she kills herself for love of him Her real name was Elissa, but she became confused with Dido, a name of Astarte, the moon goddess

the very Didymium metallic elements Its atomic weight is 141 and its symbol D occurs in certain minerals, such as monazite and parisite, along with other rare metals, cerium thorium and lauthanum The presence of didymium in a mineral is recognised by a simple inspection by transmitted light with the spectroscope, as the element shows two broad black bands enclosing a bright space one in the vellow part of the spectrum and the other in the green section

Die Term having the primary significance of a small cube used for gaming, dice being the plural form It is applied also in rrchitecture to the square base of a column and in engineering to various stamping contrivances and for tools used in impressing coins Dies for power presses in sheet metal work are of two kinds cutting dies which cut out or punch flat blanks and shaping dies which shape the

form of the blank Dies are used also for drawing fine wire

Diepne Seaport and pleasure resort of Dies are used also for

Dieppe Seaport and Ineasure resort of Dieppe Northern France It stands on the English Channel at the mouth of the little River Arques 105 m from Paris and 38 from Rouen There is an old town with a castle The port has a good harbour and a considerable export of produce There is a large fish market Pop 25,117

Diesel Engine Type of internal com-bustion engine In it air is drawn into the cylinder and compressed to about 500 to 600 lb per square inch with the result that the air becomes greatly heated. The heat of the air charge then ignites the liquid fuel which has been sprayed by means of a powerful pump through a jet into the cylinder The result of the ignition is a detonation which causes a downward movement of the piston was invented by Rudolf Diesel (1858-1913)

Food and drink Nutrient substances absorbed into the body are utilised in forming tissue repairing waste and producing energy Essential constituents are flesh-forming proteins, heat-producing fats and carbohydrates, mineral matters, minute quantities of vitamins, and water

For studying dictetic problems food's potential energy is measured by the heat evolved in complete oxidation, that needed to raise the temperature of a kilogram of water 1°C being called a calorie Proteins 34 oz, carbohydrates 18 oz, fat 2 oz yield 5300 calories

Diet (Lat dies, a day) Name used for the representative body of the Holy Roman Empire, and of similar bodies elsewhere It was so called because a particular day was fixed for the meeting, the Germans retain this use of the word day (tag) in Reichstag, Landtag,

The diet, or Reichstag, of the Holy Roman Empire consisted of three colleges or houses (1) the electors, (2) the princes and (3) the free cities Never very powerful, its power grew less and less, and after 1648 little was heard of it. The word was also used for the parliaments of the Germanic Federation, and other states and provinces of Central Europe,  $e\,g$ . Poland

Diffraction Phenomenon observed dur-ling the study of Light, Monochromatic rays from a distant point falling upon a narrow slit produce a pattern of light and shadow bands, due to the interference of waves travelling slightly different paths

A Diffraction Grating, or glass plate ruled with very fine lines, produces similarly a series of spectra of white or coloured light of uniform distribution and is much used, therefore, in spectroscopy

Diffusion Term used in physics for the mixing of two different substances which are Diffusion in liquid takes place more in contact rapidly at high temperatures and agitation

Process of preparing food Digestion after entering the mouth for absorption into the blood vessels. It comprises three stages, salivary, gastric and intestinal Food mixes during chewing with a ferment contained in the alkaline saliva which converts the starch into forms of sugar. This activity continues in the stomach, gradually superseded by that of the gastric juice which, in the presence of free hydrochloric acid, operates through several active principles. When gastre digestion is completed the semi-fluid chynic

passes into the bowels, where intestinal activities elaborate a creamy fluid chyle, whence the lymphatics extract the emulsified fats Sugar salts and soluble proteins reach the small blood vessels direct

Digitalis Genus of plants belonging to the natural order scrophu laraccae. They are natives of Britain, Europe, N Africa and Asla The foxglove D purpurea is a well known species. Its leaves yield the poisonous alkaloid digitalin, as well as several other poisonous glucosides. The leaves are gathered from wild plants of the second year's growth and carefully dried. Both the leaves themselves and various preparations are used. themselves and various preparations are used in certain forms of heart disease, and dropsy

Dijon City of France It is picturesquely placed amid the mountains in the south-east of the country 210 m. from Paris, and is at the junction of the rivers Ouche and Suron There is a university founded in 1722 and several colleges Dijon was at one time the capital of the Duchy of Burgundy To-day it has some manufactures and a trade in wine and agricultural produce Pop (1931) 90 869

Dilapidation Word meaning a falling into decay Legally, in the plural form, dilapidations, it means the dis repair of property for which tenants, who bind themselves to keep buildings in good repair and to hand them back in that condition to the owner are liable. The holders of benefices in the Church of England ere often called upon to find money for dilapidations when they leave a rectory or vicarage

Dilemma (Gr di twofold, lemma, pro position) Argument in which an opponent is caught between two difficulties, when he has two alternatives to choose from each of which would be fatal to his cause A modern example of a dilemma is the argument used by opponents against a tariff. If it suc ceeds in keeping out foreign goods it will produce no revenue, if it falls to do so it will not protect the home market

Diligence Form of stage coach It was superseded by steam trains, and lingered throughout the 19th century in Switzerland and other mountain regions

Dilke Sir Charles Wentworth English politician Born in London Sept 4, 1843, he was the son of Sir C W Dilke Bart and the grandson of Charles Wentworth Dilke (1789 1864) who owned and edited the Athenaeum He was educated at Trinity Hall Cambridge and in 1869 succeeded to the baronotey created in 1862 and the ownership of the Athenaeum Elected M.P for Chelsea in 1868 he was made Under Secretary for 1868, he was made Under Secretary for Foreign Affairs in 1880, and in 1882 President of the Local Government Board Dill o married Emilia Frances, widow of Mark Pattison and died childless Jan 26 1911 His books include Problems of Greater Britain

Dill (ancthum grarcolens) Annual um belliferous plant found in Asia and S Lurope It has small yellow flowers and flat brown fruits or seeds From these is prepared dill water, a carminative used medicinally for infants, and the leaves are also used for flavouring. It is identical with the anise mentioned in the Scriptures.

Dillon John Irish politician A son of John Dillon MP be was born in 1851 and educated for the medical profession in Dublin in 1880 he entered Parliament became introduced by man and related to the S Asian

one of the most active of the nationalists, and was more than once in prison In 1896, after the split in the nationalist party, he was elected leader of the section opposed to Parnell, and in 1918, on the death of J. E. Redmond, he was chosen as his successor in the leadership of the united party The rise of Sinn Fein, however left his party almost powerless Dillon died Aug 4, 1927
Dillon's brother Emile Joseph Dillon, won a

reputation as a foreign correspondent, especially

for the Daily Telegraph

Dilution Term used for the process of lowering the strength of a liquid by mixing it with water or other fluids medicine distilled water is used for reducing concentrated extracts to the required strength for desage and in some extracts, such as nux vomice and strophanthus mill sugar is the diluting agent. Dilution plays an important part in the preparation of homeopathic medi cines which are given in infinitesimal doses

Silver coin current in the United States The tenth part of a dollar, Dime it is worth about 5d in English money

Dimorphism Term applied to the two different forms occur in a species of animal example is the case of certain insects where winged and wingless individuals occur in the same species. In other types the male and female may differ strongly in colour, size, etc. (sexual dimorphism)

Dinan Town of Britanny It stands on both sides of the River Rance, 15 m from St. Malo The chief buildings are the Church of S Sauveur once a cathedral and the castle. There is a small harbour and a little shipping trade Pop 10 100

Dinant Town of Belgium It stands on from Namur At one time Dinant was a great commercial city with 60,000 people protected by walls and a castle The Germans captured the town and burned some of the houses in Aug. 1914 Pop 6900

Dinar Standard monetary unit of Yugo-slavia It has a nominal value of about 9td in Figlish money Coins of 1 and 2 dinars, and notes of 5, 10, 100 and 1000 dinars are current

Dinard Watering place of Brittany It stands at the mouth of the Rance, opposite St. Malo, There is a casine and other opposite St. Malo attractions for visitors Pop 8000

Dindings District of the Straits Settle ments It consists of a piece of land on the coast together with Pangkor and other islands It covers about 200 sq m Lumat is the capital Pop 18 334

Scaport and market town of Kerry Irish Free State It is on Dingle the railway 30 m from Traile, and is a fishing centre. There is a harbour 1 op 2000.

Dingle Bay is an arm of the Atlantic. It is

24 m long and at its entrance are Bray and

Dunmore II ad-

Another Dingle is a part of Liverpool In it is Dingle Point a prominent mark on the Mersey

Dingo Nativo Australian dog or warrical to the coloured short legged, with bushy tall Not withstanding fossil remains of pleistoceno age. it is commonly regarded as having been

pariah dogs. It is nowadays entirely wild and a pupil of Antisthenes, the founder of the very destructive to flocks, being systematically destroyed under government encouragement pirates and sold as a slave, he was bought by

Dingwall Burgh of Scotland, the county town of Ross and Cromarty It stands on the Cromarty Firth, 18 m from Inverness, on the L.M.S. Rly Pop (1931) 2554

Dinkelsbuhl Town of Bavaria, famed pearance It was founded in 928, was long a free city, and in 1802 became part of Bavaria In 1928 the town celebrated its thousandth anniversary Pop 5500

Dinnington (WR) It is on the S Yorkshire coal field 14 m from Doncaster, on the LNE Illy Pop 4900

There are towns of the same name in Northumberland and Somerset

Dinosaur Order of extinct four footed reptiles of the mesozoic era Mostly small-brained, they dominated by bulk, some laid eggs, while some produced living young They form four sub-orders (1) Lizard-footed herbivores, as the atlantosaur, 100 ft diplodocus 80 ft cetiessur and 100 ft, diplodocus, 80 ft, cetiosaur and brontosaur, 60 ft, (2) Armour-plated herbivores, as the stegosaur, 25 ft, and three-horned triceratops, with 6 ft head (3) Birdfooted herbivores as the iguanodon, 30 ft, (1) Beast footed carnivores, as the megalosaur and dryptosaur, 20 ft, and the tyrannosaur, 40 ft.

Dinotherium Genus of extinct progreat size preceding the mastodons and the elephants Perhaps originating in miocene N Africa, fossil remains of several species are found in miocene and pliocene rocks in France, German, Greece and N India Lacking upper incisor and canino teeth, their lower jaw, sharply bent downward, bore two massive tusk like incisors Apparently they were more or less aquatic, and the skull indicates a length of 18 ft

Diocese District under the authority of a Britain is divided into dioceses and there are dioceses also in the British Dominions and in other lands where the Anglican Church works The Roman Catholic Church is also divided into dioceses A group of dioceses forms a province which is usually under an archbishop

There are now 43 dioceses in England, 30 in the province of Canterbury and 13 in the province of York Wales has six dioceses Each diocese has a cathedral and usually takes the province of York was a cathedral and usually takes. its name from the cathedral city. In one or two cases a diocese has a double name, eg.

St Elmundsbury and Ipswich

Diocletian Roman emperor Born at Diocletian Roman emperor Born at AD 245, his full name was Galus Aurelius Valerius Diocletianus Said to have been the son of a slave, he became a soldier, held various commands, and in 284 was proclaimed emperor He divided the empire with his colleague, Maximilian, and later, in 292, with Galtrius and Constantius Chlorus as well Nicomedia was his capital

Diocletius refere was marked by a stream

Diocleti in s reign was marked by a strong tendency towards absolute rule. He subjected the Christians to much persecution by an edict of 303. In 305 he abilicated and died at

a wealthy Corinthian, Xeniades, who gave him his freedom Little is really known of his life and doctrines The countless anecdotes that are told of him by ancient authors cannot lay olaim to authenticity Under his name we have some spurious letters He lived from 412 to 323 B C

Diomedes Greek legendary hero King of Argos the bravest of the heroes next to Achilles, and the favourite of Pallas Athene, he was present at the slege of Troy Fighting against the gods who sided with the Trojans he wounded Ares and Aphrodite His cult, starting from Argos, spread through all the Greek lands.

Dionysia Greek festivals in honour of Dionysus These consisted of the lesser or rural Dionysia, celebrated in the the lesser or rural Dionysia, collopaled in Line country, and the greater or city Dionysia, celebrated at Athens On the first day of the latter there was a grand procession to the altar of the god, a feast, and a choral dance, on the second day dithyrambs were sung, and on the last three, contests of tragedy and comedy were held in the great theatre of Dionysia. Dionysus

Dionysius Name of two rulers of syracuse, known as tyrants. Dionysius the Elder was born at Syracuse in 430 BC He won renown in the campaign 430 BC He won renown in the campaign against Carthage and was made commander of the army in 405 Soon he was proclaimed king, ruling over a good part of Sicily, as well as the city of Syracuse His rule was oppressive and conspiracies were formed against him, but he kept his state and position until his death in 367. Dionysius erected beautiful buildings in a prize with a play and was Syracuse, won a prize with a play and was visited by Plato

His successor, Dionysius the Younger, passed most of his reign in warfare with a rival. Dion He was driven away in 356, but returned ten years later In 343 he again left Sicily and passed his remaining days as a teacher in Corinth

Two other persons of this name are known. Dionysius the Arcopagite was one of S Paul's converts. He was evidently an Athenian (Acts xvii) Dionysius of Halicarnassus was a Greek who passed much of his life in Rome He wrote, in Latin, a book on the history of the Roman people

Dionysus Greek name for the god known usually as Bacchus  $(q \ v)$ 

Diopside Somewhat rare mineral allied to augite and belonging to the monoclinic pyroxene group. It consists of a silicate of calcium and magnesium, and occurs as green or colourless crystals in veins in serpentine, granular limestones and garnet rock in Sweden Italy, the United States and other localities

Dioptase Rare mineral It consists of silicate of copper and occurs as green transparent crystals which resemble those of the emerald It was first found lining cavities in the limestone at Altyn Tubeh in the Khirriz Steppes and later in Chile and the French Congo In its chemical composition it is allied to the commoner copper ore chrysocolla. It sometimes serves as a gemstone

Spalatro in 313

Diogenes Greek cynic philosopher Born at Sinope, according to tradition, he early emigrated to Athens, became

Diphthong (Gr di gouble, phthongos, pour sound)

Diphthong (Gr di gouble, phthongos, pour sound)

Sounds which follow each other so closely that when pronounced they form only one syllable

Thus, in the word out, ou is really a compound of the sound of a heard in father and the sound

of u heard in put

Diplodocus Genus of extinct land They lived in Wyoming and Colorado in Jurassic times They had smooth skins, slender neeks and long tails with diminutive heads and tiny brains Walking on all fours, with nostrils overhead for breath ing, they browsed on succulent aquatic weeds, submerged in wide estuarine shallows at the foot of the Rocky Mts Their length ranged from 50 to 85 ft

Diphtheria Infectious disease A germ or bacillus sets up an in the throat or adjacent areas where a fibrinous membrane is formed. The temperature rises and is accompanied by pains, headaches and general lassitude Sometimes the glands are swollen Diphtheria chiefly attacks young children, but others are by no means immune It is highly infectious Many cases are due to drinking impure water, and it is often conveyed in milk It can also be conveyed by carriers, persons who are them selves free from it, but who can infect others In its severe form diphtheria is very dangerous breathing is impeded and the closing of the air passages brings on death

Formerly almost one in two cases was fatal. but the use of anti toxin has greatly reduced the mortality In Great Britain cases of diphtheria must be notified to the medical officer of health The word is a Greek one mean ing leather, because the membrane formed in the throat resembles leather

Mark of proficiency, usually in a branch of learning Examin Dıploma ing bodies who cannot give degrees give diplomas to those who have fulfilled certain tests They are also given to dispensers, opticians and traders of other kinds to show that a certain degree of skill has been attained Strictly speaking the diploma is the document on which the qualifications are set out.

The Diploma Gallery is at Burlington House, London It contains the works sent to the Academy by those who have been elected R.A. The rule is that each R.A presents a work to

this gallery

Diplomacy of negotiation, ospecially between the diplomatic service whose members called diplomatists carry on negotiations with foreign countries Some of these, ambassadors ministers, envoys etc go abroad and live in a foreign capital to keep in close touch with its rulers. Their business is to watch ever the interests of their country and to send regular reports upon all that concerns it. The position is a highly condental is a highly confidential one

The service originated when emperors and kings sent men on business to foreign countries About the end of the Middle Ages the practice began of sending a representative to reside in a foreign land The Tudor sovereigns had a a foreign land number of such diplomatists and much of our from knowledge of foreign affairs comes

in the United Kingdom the diplomatic service is part of the foreign office staff Most of the ambassadors and ministers are drawn from members of the service but occasionally an outsider of eminence is appointed, as when Lord Derby and then Lord Crewe were sent as ambassadors to Paris Diplomatists in a in a. ambassadors to Paris foreign capital enjoy special privileges They in the supervision of the company's affair A cannot be arrested and their residences are free | board of directors must keep minutes of its

from rates and taxes. All the diplomatists in a capital form the diplomatic corps which takes precedence on State occasions. Its etiquette is very strict.

Diplomatics Critical study of his torical and other door ments It comes from the word diploma and is only concerned to find whether or not the documents are genuine. The study arose at a time when many forgeries of charters, etc., were in existence. There is a reader in diplomatics at Oxford

Dipper Semi aquatic songster allied to the thrush (cinclus aquaticus), also called the water ouzel Brownish, white breasted, with short rounded wings, it haunts mountain streams, into which it plunges noise lessly It clings to the bed of the river and uses its wings to help its progress under the water The bird lays five eggs at a time

Dipsomania Morbid craving for alco the result of mental instability, assisted in many cases by an hereditary tendency to drink Dipsomaniacs are treated in homes for inebriates and the law allows them to be put under restraint

Diptera Order of insects Characterised by two membranous wings, usually transparent, not folded at rest, the posterior pair present in other insect orders is reduced to drum-stick balancers or halteres With short antennae and two large compound eyes, the mouth parts form a proboscis for pieroing and sucking Upwards of 40,000 species have been named, but far larger numbers remain unnamed Nearly 3000 are numbers remain unnamed Rearry 3000 are recognised as British, they include crane files, mosquitos, house files, testees and bot files Many species walk upside down by means of foot suckers

Diptych Form of writing tablet used by wooden or ivory leaves which fold over like a book. In time it became customary to present consuls with a diptych carved on the outside in bas relief The carly Christian diptych is dis tinguished by the principal illustration being on the inside

Dirce In Greek legend the wife of the King of Thebes, Lycus She is known for her harsh treatment of Antiope, a former wife of the king To avenge their mother, Antiope's sons, Amphion and Zethur killed Lycus and tied Direc to a wild bull which dragged her about till she died

Directoire form of architecture and furniture developed during the French Directory, which was in power 1795 99 It marked a gradual abandonment of the restrained classical grace in vogue under Louis XVI, passing into an enthusiasm for the heavier Roman motives—Its influence upon contemporary taste in England was slight

Director One holding a directing responsible position Un Under the company law of England every limited liability company must have a board of directors who are responsible for its affairs They are elected by the shareholders One of them is chosen to act as chairman, and one or more are called managing directors and give their whole time to the business. The directors are responsible for the statements made in a prospectus and can be prosecuted for neglect

Godhavn is the chief

proceedings and issue reports to the shareholders

The word is also used for certain high officials in the civil service, especially the War Office and the Admiralty, and for those responsible for the control of education in boroughs Another counties and county director is the director of public prosecutions

Directory Committee of five men who governed France from Oct, The convention framed a conto 1799 stitution and entrusted the executive power to the Directoire Its first members were Barras, Lépeaux, Letourneau and Rewbel Under the Directory Napoleon conducted campaigns in Italy, Egypt and Gormany, French influence increased in Italy and Switzerland, and a treaty with Austria was concluded Napoleon ended the Directory Nov 9, 1799, and made himself first consul

Dirge Funeral song or hymn The word is a corruption of the opening word in the Roman Catholic office for the dead, Dirige, Domine, etc.

Dirigible Term applied to navigable balloons and non-rigid nirships The carliest type was a slightly elongated balloon propelled by oars or propellers and worked by hand power The modern non-rigid type, the result of many experiments, is spindle type, the result of many experiments, is spindle type, the result of many experiments, is spindle type. shaped, giving less resistance than the globular form, and is directed by horizontal and vertical planés

Dirk Highland dagger or poignard It has a short, sharp-pointed blade from 15 to 20 in in length, and a handle of wood or horn, or of brass with ornamental mountings In the British Navy it was worn as a side arm by midshipmen and cadets

Dirt Track Course of dirt or cinders on which motor cycles race Dirt track racing originated in Australia and was brought to England in 1928 Matches take place regularly between teams of six, much on the principle of the leagues in association foot-ball There are tracks at Lea Bridge, Crystal Palace, Stamford Bridge, Wimbledon and elsewhere in the London area, also in Manchester, Birmingham, Liverpool and other large cities

Discharge In law, the bringing to an performance, breach or mutual agreement In bankruptey, discharge means the release of a bankrupt from his liabilities, which may be granted, unconditionally or subject to a constitution dition, eg, after the lapse of a period of time, or the payment of a specified sum as dividend to the creditors

The term is also used when a soldier or sallor leaves the arm, or navy He is discharged at the end of the time for which he collisted, but he can buy his discharge at an earlier date

Disco Ball game introduced into London but the play is faster Underhand service is compulsory and modern racquets are used The court is 40 ft. long and 16 ft wide, divided be anet, 4 ft high The service lines are marked between two posts 14 ft back from the net On each post is a disc, 20 in across If the ball fails to clear the net or goes out of the court one point is lost, but if it hits a disc five points are gained. Games are failed white and the service of the service are gained Games are for 15 points, and a set

is the best out of five games

Disco Island off the west coast of Greenland, of which it forms part It

covers 3000 sq. m and on it are coal mines

Defence Institution

and stone quarries settlement Discobolus Copy in the Vatican of a There is also a marble copy in the British

Discount Percentage allowance from the amount of a debt Cash discount is allowed by traders for prompt payment, while trade discount is an allowance made by wholesalers from the retail prices of articles bought in large quantities

Banker's Discount is a commission charged for discounting, ie, cashing a bill of exchange The firms engaged in this business in London form what is called the discount market

Discovery Name of several English one was commanded by William Batin when he went to the Arctic Ocean early in the 17th century Captain Cook and George Vancouver sailed in ships of this name and there were others. In 1901 Capt R F Scott went to the Antarctic in a new Discovery, and this vessel, having been refitted, was used by Sir D Mawson in 1929

Discus Round or oval piece of stone or wood or metal used in athletic contests Throwing the discus was one of the competitions in the games of ancient Greece It has been revived in modern times and is an event at many athletic meetings. The discuss weighs 1½ lbs. The world's record of 157 ft 1½ in was made at San Francisco in 1925. In 1930 a British record (126 ft 8 in ) was made at Brighton by A. R. Edwards.

Disease Definite ailment or complaint acute or chronic, curable or incurable, affect any part of the organism, and directly or indirectly conduce to death Its study is called pathology Physicians and surgeons are either general practitioners or specialists in limited fields of practice, such as diseases of the eye or the lungs Diseases may be constitutional, localised, congenital, infectious, endemic, or epidemic Some infectious diseases must be notified to the local medical officer of health

For the study of tropical diseases there are institutes in London, Liverpool, Hamburg and elsewhere

Disendowment Sequestration by the State of property belonging to the Church It usually accompanies disestablishment By Acts of Parliament passed in 1869 and 1914, the Irish and Welsh Churches were disended, the clergy receiving life interests in their benefices Proposals have been put forward for disendowing the Church of England, but its advocates maintain that property definitely left to the Church within recent years should not be appropriated by the State

Disestablishment Act of separat-State The Roman Catholic Church has been disestablished in France, Spain and other countries, and the Anglican Church in Ireland (1871) and in Wales (1920) The separation thus enected means that the church becomes selfgoverning, no longer are its bishops and other clergy appointed by the king and his ministers, but by the Church itself

set In the 19th century there was a strong agitation for the disestablishment of the Church of England, and in 1844 the Liberation It Society was formed, countered by the Church ines Defence Institution In the 20th century,

especially after the rejection by Parliament of the Revised Prayer Book in 1927 and 1928, there was a new movement for disestablish ment, but this time it came from within the Church

Disfranchisement Act of de priving people of the right to vote or to be represented on an elected body Parliamentary constituencies have been disfranchised by Act of Parliament from time to time, chiefly because of their small size This was done in 1832, 1867, 1884 and 1918 The electors, however, retain their right to vote, doing so in a larger constituency which includes the disfranchised one
The disfranchisement of individuals is now

a rare event, but conscientious objectors were so treated for a limited period after the Great War. At one time excise officials in Great

Britain were not allowed to vote

Disinfection Term applied to the process of destruction of the causes of infection by disease, and often loosely used to include deedorants and antiseptics. They act by destroving germ or bacterial life. A deedorant merely covers or destroys offensive odours.

Disinfection may be carried out in various bisinfection may be carried out in various ways, by burning, or the use of hot air, steam or boiling water, by the use of oxidising agents, such as sulphurous acid, chloring permanganate of potash, etc. by the use of substances which coagulate albumen, such as corrosive sublimate and copper sulphate, or by tue use of poisonous agents such as phonol

Disley Village of Cheshire It is 6 m from Stockport and 175 from London on the LMS Rly Pop 2960

Dislocation Displacement of the ends of opposed bones in a joint It may be congenital, when due to a malforma tion at birth, spontaneous, when caused by disease of the joint tissues, or accidental, when resulting from violence Besides displaced disease of the joint tissues, or accomentar, whomes resulting from violence Besides displaced bones there may be bruised tissues and torn ligaments Compound dislocations, attended by woulds communicating externally with the air, are sometimes accompanied by fractures Unqualified surgeons who treat dislocations and fractures are collequially called bone setters

Dispatch Official communication sent away promptly or regularly. The term especially denotes the communication tions of ambassadors and military or naval commanders Detailed accounts of naval and military operations, sometimes propared leisurely, and preceded by condensed urgent community is rank as dispatches, and units or men named in them as meriting special commendation are said to be mentioned in dispatches

The use of dispatch riders for conveying messages between headquarters and units has marked military operations in all ages. The American Civil War utilised horsed riders the S African Var cyclists, and the Great War

motor cyclists

Dispenser In Great Britain a person qualified under the Phar macy Acts to compound medicines from physi macy Acts to compound medicines from parts clans prescriptions A dispenser is quali-fied also to trade as a chemist and druggist. The examinations prescribed for dispensers are conducted by the Pharmaceutical Society of Great Britain 17 Bloomsbury Square I ondon, W C There is also a Pharmaceutical Society in Dublin and a College of Pharmacy in Leeds The diploma of M.P.S is given to successful candidates

Pharmaceutical chemists, hospitals and dispensers for general practitioners employ compounding their medicines have now entered the profession Many women

Dispensing requires, in addition to a good general education, a knowledge of chemistry and materia medira and of the British Pher macopoela and other recognised formularies, a practical acquaintance with the weighing and measuring of drugs and the system of desage, and the ability to decipher the written prescription with its symbols and abbreviations

Dispensing Power In England a by certain sovereigns of allowing individuals to break the law without being punished. It was claimed and exercised by James I and other Stuart kings especially by James II In the Bill of Rights passed in 1689 it was declared illegal

Dispersion Term used in optics for the separation of white light into its constituent colours by refraction refraction through a prism The rave having the longost wave length are refracted least, whilst those with the shortest wave length undergo most deviation Sunlight is dispersed by refractions through rain drops, to form the rainbow Dispersion also occurs when light is refracted through a lens, giving rise to colours on the edges of the image focussed on a screen

Displacement Term used of ships water which a vessel displaces, and is usually expressed in tons See TOYLAGE

D'Israell Isaac Fnglish writer Born at Enfield, May 11, 1766, he was the son of Benjamin Disraell a Jewish was the son of Benjamin Disraell a Jewish trader in London He was educated in Amster dam and began to write, his best known work being The Curosities of Literature published in six volumes He also wrote Calamities of Authors and other books D'Israell became a Christian in 1817 He died at Bradenham Buoks, Jan 19, 1848, Laving one son, later the Earl of Beaconsfield (qv)

Disruption Term used for the secession of 420 members from the Church of Scotland in 1843 They differed from the others on the question of pationage and, led by Dr Thomas Chalmers, they formed the Free Church of Scotland

Diss Market town and urban district of Norfolk It is on the Waveney, 10 m from Norwich, on the L N E Riv John Skeiton poet and satirist was rector here There is a trade in agricultural produce Pop (1931) 3422

Dissenter In Great Britain one who separates from the Estab lished Church for reasons of doctrine discipline lished Church for reasons of doctrine discipline or ritual The word was applied to those who declined to accept the Act of Uniformity of 1662, but it denotes more particularly the Protestant dissenters referred to in the Tolera tion Act of 1689 In the Relief Act 1791 English Roman Catholics were originally styled Protesting Catholic Dissenters Members of the Episcopal Church of Scotland are technically dissenters from the Established Church of Scotland Modern usage tends to prefer the epithet Nonconformist or Free Church

The Dissenting Deputies is a body of laymen representing the three denominations Congregationalist Presbyterian and Baptist

Founded in 1732 it has the right of offering an address to the sovereign at his accession and at

other times

Dissecting Operation of cutting open or separating into parts, specifically the complete or partial cutting of animals or plants into component organs or The protissues for examination and study vision of human bodies for anatomical study is governed by the laws of 1832 and 1871 before which they were obtained by illegal means, such as those adopted by Burke and Hare Disceting is part of the training of all medical students

Dissertation Formal discourse or treatise The word especially denotes a written essay or thesis required of candidates for university degrees independent of set examinations Such theses are offered for the degrees of Doctor of Literature, D Litt, at London University, docteur-des lettres at the Paris Sorbonne, and Doctor of Philosophy, Ph D, at some German uni versities

Dissolution Act of reducing to con association The term may denote the termina tion of a partnership, by effluxion of time or mutual agreement, duly notifiable in the

London Gazette

A Dissolution of Parliament precedes a General Election It takes place on the advice of the Prime Minister unless the patliament comes to an end because its period, in Great

Distaff Cleft stick for holding fibre in hand spinning Usually of wood, the cotton, wool or flax was wound loosely upon it in readiness for the spinning It was held under the left arm. The lower end rested upon the girdle or the ground, and the right hand drow out the fibre and twisted it on its way to the weighted spindle It disappeared when large spinning wheels were introduced Distaffs were in use in very early times Their length was about 36 in

Distemper Method of painting with pigments mixed with alutinous material, preferably egg yolk, soluble in water Surfaces, usually wood or canvas, are couled with many usually wood or canvas, are conted with gum-mixed plaster Such tempera which was continued until oil painting de veloped, still serves for scene painting and similar work

In house decoration pigments mixed with size and body white are spread upon plastered walls. Called distempers, these often take the place of paper

place of paper They are easy to keep clean and can be obtained in a variety of colours

Distemper tagious fever attacking young dogs Primarily catarrhal, it affects the mucous membrane of the eyes and nostrils The running discharge impairs yislon, the The running discharge impairs vision, the cornea may become ulcerated Rigor, sneezing loss of appetite, increased temperature and pulse, cough and diarrhoea may lead to other complications Choren frequently supervenes Careful nursing, nourishing food and frequent bathing of the affected parts are essential High bred and pet dogs are peculiarly liable to distance. liable to distemper

Distilling Converting a substance or vapour condensable into liquid drops. It extracts essential or volatile oils from plants mineral oils from 2001 to 1000 t mineral oils from coal tar fresh water and salt and alcoholic spirit from fermented saccharine

The apparatus comprises stills containing the substance whose heating drives into their upper part vapour which passes through spiral r worms surrounded by condensing the liquid drops fall into receivers tules, or worms water Stills are fire-heated not stills, steam-heated patent, or Conev stills, and rectifying stills

Several substances are used for distilling Brandy is distilled from wine Rum is distilled from sugar cane and its molasses also from beet Whisky is distilled from starchy materials, chiefly grain, such as barley, r.e. oats, wheat and maize In these the starch is first fermented into sugar and the sugar then fermented for alcohol Industrial alcohol is distilled from beet and molasses, also from potatoes and sawdust

Distilling is a considerable industry Scotland, where much of the world s whisky is made A distiller must take out a licence, which varies according to the number of gallons distilled For 60,000 gallons or under it is £10. The Distillers Company is a London livery company, it dates from 1638 and its offices are

in the Guildhali

Distinguished Conduct Medal British military decoration In-stituted in 1862, it is conferred on

non-commissioned officers and men for 'in-dividual acts of distinguished conduct in the field. It is now awarded for services in action The ribbon has three stripes of equal width, the centre stripe being blue and the others red It is called the DCM

Distinguished Flying Cross

British decoration It was instituted in 1918 solely for officers and warrant officers of the Royal Air Force, to whom it is awarded for conspicuous gallantry in action It is a small cross with a purple and white ribbon, striped horizontally and is called the D F C.

The Distinguished Flying Medal, also awarded for gallantry in action, s given to non-commissioned officers and men of the Royal Air Force The ribbon is purple and white striped horizontally. It is called the DFM

Distinguished Service Cross

Naval decoration It is given to officers of the navy below the rank of lieutenant-commander, including warrant officers and is called the DSC It was founded in 1901 as the Conspicuous Service Cross The ribbon is three equal stripes, two blue with a white stripe in the centre

The corresponding decoration for the lower ranks of the navy and marines is the Dis-tinguished Service Medal. This dates from 1914 The ribbon is purple and white and it is called

the DS M

Another Distinguished Service Medal is given to the men of the Indian army It dates from 1907 the ribbon is violet with blue borders

Distinguished Service Order

Naval and military decoration It dates from 1886 and is called the DSO It is given to officers of the army and air force for distinguished service in the field Members are called Companions and have precedence belore the 4th class Royal Victoria Order A bar is awarded for an additional act of callautry. awarded for an additional Let of gammary. The ribbon is red with blue edges and the badge is a Maltese cross. Over \$500 awards were made during the Great War Distraint Method of enforcing payment of a debt. The usual method

is for the creditor to sue the debtor, and, having proved his debt, to obtain an order calling upon the debtor to pay, if he fails to do this the creditor can send the balliffs to his house, or business, and sell his goods. At one time the goods of a lodger could be seized for the debts of his laudlord, but this was forbidden by law in 1908

Arrears of rent are often obtained by a distraint Before the passing of the Rent Restriction Act during the war period, a land lord could distrain without applying to the court. Under the Rent Restriction Acts an order of the court is necessary before this can be done If a tenant removes his goods the landlord can distrain upon them wherever they

are within 30 days.

Distributor Flat or columnar switch board for distributing electrical energy derived from a main supply through the various circuits comprised in a building or other system. In multiplex tole graphy, by cable or wireless, a rotating arm making in sequence contacts with levers controlled by selecting pins enables several messages to be transmitted and received simultaneously in connection with a single wire or aerial. Similar devices enable multiorylindered internal combustion engines to operate from a single source of energy.

District Defined portion of territory which includes Washington, in the United States In England there are two kinds of district, urban and rural, each with an elected council, and controlled to some extent by the county councils Urban councils, especially those with over 20,000 inhabitants, have much more extensive powers than the rural ones The councils were set up in 1894

Ireland had councils on the same plan In Scotland the counties are divided into districts and district councils were set up by a law

passed in 1929

A district registry is an office where wills can be proved There are about 40 of them in the large towns of England and Wales

Ditchling Beacon Hill in Susser from Brighton and one of the highest points of the South Downs It is now the property of the borough of Brighton

Diuretic Medicinal agent tending to inagents, by increasing the flow of urine Such agents, by increasing the flow, assist in eliminating morbid products or dropsical fluids. They may pass direct to the kidneys, diminish kidney congestion and relieve the heart

Divan Porsian word meaning a tribunal and the low raised seats round its walls in the first meaning it denotes a state council, specifically Ottoman, the second passed into French as douane a custom house the third came to mean a smoking café or tobacco divan A combination of seat and bed, suitable for flats, is called a divan

flats, is called a divan

Diver Genus of diving birds (Colymbus)

Of the four species, three the great
northorn (C glacialis) with glossy black head
and neck the red throated (C septentionalis),
with reddish-grey throat patch, and very
rarely, the white billed (C adamsi), are winter
risitants to Britain, but breed inland in more
northern regions The black throated (C

northern regions The black throated (C arcticus), breeds in the Hebrides

Divide for an elevated water parting

between valleys The Continental Divide is in Wyoming Between Idaho and Montana rises Divide Peak Queensland has a Great Dividing Range, and Victoria a Dividing Range

Dividend (Lat dividendum, something to be divided) Word used in mathematics for a sum to be divided by a divisor to obtain the quotient.

In law a dividend is a sum of money set

In law a dividend is a sum of money set aside out of a company's profits for distribution among the shareholders usually by a per centage on their share holdings. The declaration of a dividend creates a specialty debt (i.e. a debt not barred for 20 years), due from the company.

By English law a dividend cannot be paid out of carital Dividends on preference shares are cumulative or non-cumulative. If the former, any dividend that is not paid must be carried forward and paid before the ordinary

\*hareholders receive anything

Divination Quest or discovery of the unknown by non-rational methods The processes observed are subjective, as in dreams, crystal gazing, trance speaking dowsing and necromancy, or objective, depending upon inference from observed facts Their interpretation developed schools of empirical deduction, traceable among Chaldean soothsayers and prevalent in ancient Rome They observed live things such as birds and hands, dead things such as entrails, inanimate objects as in astrology and geomancy, mechanisms such as suspended keys and rings, and cast lots

Divine Right Idea that kingship and ity are of divine sanction and cannot lawfully be set aside. It was strong in England in the 16th and 17th centuries, and especially held in connection with the Stuart kings. The idea, which is historically unsound, gradually lost favour, but societies still exist which regard it as an article of faith. Its supportors call themselves legitimists and believe that a member of the late ruling family of Bavaria, as being descended from Charles I, Is the rightful king of Great Britain. See Jacobites

Diving Act of plunging into water means of obtaining pearls and sponges from the sea bed in shallow waters. A diver can remain for only two to three minutes under water and in many of the pearl and sponge fisheries diving apparatus is coming into general use

For recovery of treasure and other purposes in deeper waters the diving dress consists essentially of a flexible waterproof or metal garment and copper helmet provided with air tubes, signal line, telephone and outlet air

Diving is also a pastime and competitions are held The record for the longest time under water is 6 min 29‡ sec, held by a Fronchman

Divining Rod Fork twig used in thing hidden This method of divination, of great antiquity, is still employed by professional dowsers in scarching for metalliferous deposits or water springs Timber twigs usually hazel or metal wires and springs are held between the extended hands and give notice of the proximity of the object sought by more or less violent contortions. The frequent success of this method is sometimes attributed to the dowser's capacity for perceiving obscure

rod automatically

Divinity Term for the godhead In poly-theistic religions the term de-

notes all gods and demi-gods

It is also used synonymously with theology for the science of divine things In Scotland divinity halls are theological colleges or uni-Doctors of Divinity departments (DD) hold degrees, usually honorary, conferred by universities under varying conditions There are regius professors of divinity at both Oxford and Cambridge and professors of divinity at the universities of London and Durham, the Scottish universities and Trinity College, Dublin

Division In the United Kingdom a dis-Parliament Each of the larger counties and Parliament boroughs is divided into several divisions

In both houses of parliament the taking of votes is called a division Members pass into one of two lobbies, the "ayes" in one and the "noes" in another There they are counted and the result announced to the House by two

members called tellers

In military matters a division is the unit between an army corps and a brigade It consists of three brigades of infantry, about 10,000 men, with appropriate artillery, engin-cers and other auxiliaries. It is usually cers and other auxiliaries It is usually commanded by a major general

Divorce Legal ending of the marriage tie This branch of the law was long

under the control of the church, which re-rarded divorce with great disfavour As, however, the influence of the church weakened

divorces became easier to obtain

Divorce was allowed on very slender grounds by the Romans, but became much more difficult to obtain when Christianity was established in Europe At the time of the Reformation some countries, Scotland for instance, began to allow

it in cases of adultery

In England the history of the law falls into three periods Until 1857 a divorce could only no obtained by a special Act of Parliament, which meant that it was confined to the rich In 1857 a law was passed which allowed a husband to apply for a divorce if his wife had committed adultery. A wife could only obtain a divorce if adultery was coupled with desertion or cruelty Divorce could also be obtained for bigamy A divorce court was set up and is now part of the probate, divorce and admiralty division of the high court

In 1923 a law was passed which made the exes equal in this matter Adultery is now a ground for divorce by both husband and wife Adultery is now a If the case is proved the court grants a decree nisi (unless) If, at the end of six months, the parties concerned have not broken the law, the decree is made absolute, and they are free to marry again Poor persons desiring a divorce on good grounds can obtain assistance from the Law Society, Chancery Lane, London, W C 2

There is a movement to make divorce still easier to obtain, in eases of insanity or serious mental trouble for instance and a Divorce Law Reform Union exists at 55-56 Chancerv Lane, London WC, to urge such reforms In other countries the law varies greatly in the United States and state has the

In the United States each state has its own divorce laws, and divorce is very easy to obtain. In France it is allowed. In general it is most difficult to obtain in countries where the Roman Catholic church is strongest Dixmude Town of Belgium It stands on the Yser, 12 m from Ypres.

indications which are communicated to the The town was much damaged during the Great War Taken by the Germans, it was recovered by the Belgians in Sept., 1918

Dnepropetrovsk Town and river It stands on the Dnieper, 250 m from Odessa and is the fourth largest town in the republic. It is an important trading centre, as the Dnieper is navigable by large yessels, and has a number of manufactures It occupies the site of a Polish fortress, where later a residence was built in 1787 for the Empress Catherine II This was called in her honour Ekaterinoslav and round it the town grew In April, 1918, it was taken by the Germans, later the Soviet authorities changed its name.

authorities changed its name Pop 233,801

Dnieper River of the Ukraine It rises
the Black Sea, just below Kherson It is
navigable and is used for bringing down corn
for shipment at Odessa, artificial channels
having been cut to avoid the rapids It is over 1300 m long and is linked by canals with other

Dniester River of Europe It rises in Poland and passes through the Ukraine and Rumania to the Black Sea,

Lich it enters near Odessa It is used for the bringing down grain for export from the Black Sea ports Its length is 750 m and canals Black Sea ports unite it with other waterways

Dobell Sydney Thompson English poet and critic Son of a wine mer-English poet chant, he was born at Cranbrook, Kent, April 5th, 1824 Though he assisted his father in business at an early age he wrote verse and studied continuously. In 1850 the publication of The Roman brought him instant success
Balder, published in 1854, was followed by
England in Time of War, 1856, and many
other poems Dobell died at Nailsworth,
Gloucestershire, Aug 22nd, 1874

Dobrudja District of Rumania covers about 8000 sq m and hes between the Black Sca, Bulgaria and the Danube Constantza is the chief town A good deal of it is marshland, but other parts are fertile soil Dobrudja was taken from Turkey and given to Rumania in 1878 In 1916 it was conquered by the Austro-German armies and in 1918 was handed over to Bulgaria. It became Rumanian again by the treaty of 1919

Dobson Frank English sculptor Born in London, Nov 18, 1887, he studied art in London and in Cornwall first he worked both as a painter and a sculptor, and his pieces attracted a good deal of attention when exhibited in 1909 Afterwards he gave his time almost entirely to sculpture and produced some notable work, including busts of Lord Oxford and Asquith and Lydia Lopokova

Dobson Henry Austin English writer and poet Born at Plymouth, Jan 18, 1840, he became a civil servant, entering the Board of Trade in 1856 In 1873 he published Fignetics in Rhyme and from that time onwards was known as a cruceful writer in both prose and verse and a discerning critic, with a wide knowledge of modern literature with a wide knowledge of modern interature He wrote lives of Steele Goldsmith, Horaco Walpole, Fanny Burney and others, volumes of verse and many articles and reviews, as well as essays and introductions. Dobson died Sept 2 1921

Dock

Enclosure, usually in a port, for the recention of vessels. It is made by

reception of vessels It is made by

enclosing some part of a herbour or river with Doctrinaire in politics, economics, errong walls Where the tide rises and falls Doctrinaire science or art, a theorist considerably, gates are nec docks are called tidal basins gates are necessary Gateless

The usual division of docks is into wet and The former are docks in which vessels can lie while being loaded or unloaded , latter are docks from which the water can be excluded so that ships can be cleaned or repaired Dry docks are divided into graving docks, slip docks and floating docks. All serve the same purpose. The slip dock is a graving or repairing dock with a slipway kading out of it. The floating dock is a movable repairing dock.

The steady increase in the size of ships has led to a corresponding increase in the size of docks and in all the great ports the tendency is to build larger ones Each dock is fitted

is to build larger ones. Each dock is fitted with machinery and apparatus for dealing with cargo, and warehouses for storing it.

In the large ports, such as London, certain docks are set aside for certain classes of merchandise. In one dock coal is handled, in another oil, and so on. The King George V dock, opened in 1921, one of the largest in the world, covers 186 acres. The total area of the Port of London docks is 4203 acres, including 675 at Tilbury. The governing body is the Port of London Authority. In other places docks of London Authority in other places docks are controlled by a dock and harbour board as at Liverpool, or a railway company as at Southumpton, or by the local council.

A dock warrant, which must be stamped, is a document showing to whom the goods in a dock belong It can be used as security for a

bank loan

Genus of biennial and perennial herbs of the polygonum family They are native to all temperate They have tapering rootstocks Dock climates alternate leaves, and whorled clusters of small greenish flowers bearing leathery three sided truits A dozen Biltish species, sometimes troublesome weeds, include the bitter or broad leaved fiddle, golden, water, and sour dock, or sorrel

Dockyard Any place where docks are, but in practice confined to a place maintained by a government as a base for warships—It contains facilities for docking and repailing the ships for victualling them and preparing them for sea gometimes for the state of the stat building them are Portsmouth The chief English dockvards Devonport and Chatham Since the Great War Pembroke has been closed and Rossth partly closed The Admiralty also maintains dockyards at Gibraltar, Bor muda Hong Kong and elsowhere

Doctor Term for a man of learning there are doctors in all branches of learning men who have received from a university the degree of doctor, whether in law obvinity philosophy, science music or medicine. These degrees are usually given after the writing of a thesis or sometimes without

any test
The word is most generally used however, for a qualified medical practitioner, whether or not he or she has obtained a dector s degree

District of Doctors' Commons London It is near St Paul's Cathedral and is named after a college of lawvers which had its head quarters here from 1768 to 1857 Its members were chiefly concerned with ecclesiastical cases. which then included divorce and probate matters.

who follows one narrow principle or group of principles regardless of practical considerations. After Louis XVIII is second restoration in 1815 the name was applied deristively to the statesman philospher Royer-Collard, and his royalist following, who advocated a constitution on historical principles, opposed to absolutist and revolutionary ideas

Dodd Francis British artist Born at Holynead, Nov 29 1874, son of a Holynead, Nov 29 1874, son of a not be party and party, and made his reputation with his sketches of generals and admirals during the Great War when he was an official artist. In 1927 he was elected A.R.A.

Doddridge Philip English divine Born in London, June 20, 1702, he spent most of his adult life in North ampton where he was minister of a Non conformist church and founder of a college for training ministers He is best known for his hymns, which include "O God of Bethel" and "Hark, the glad sound," and as an early believer in shorthand He dled in Lisbon, believer in s Oct. 26, 1751

Dodecanese Name of twelve islands in the Aegean Sca They lie between Crete and Asia Minor and include the Island of Patmos For long they belonged to Island of Patmos For long they belonged to Turkey In 1912 they were selzed by Italy but they were not formally ceded to that power until 1924 Since the Italian occupation the name has been applied to the Thirteen Southern Sporades

St Austell on the south coast and stands 270 ft high Sir A Quiller Couch refers to it as Dead Man's Rock It is the property of the National Tener

Dodo Large flightless bird of the pigeon order (Didus incutus) Found in order (Didus incipits) Found in habiting Maintitus when discovered by the Portuguese in 1507 it is known to have survived to 1681, but is now extinct Several almost complete skeletons have been constructed from abundant finds of bones. It was clumsy and defenceless with stout bill, short legs, stumpy till and down; feathers

Dodworth (WR), 3 m from Barnsley on the LNE Rly it is in a coal mining district. Pop (1931) 4218

Doe John One of two fictitious names also of convenience The other was Richard Ree When a litigant could more conveniently being an action in a fictitious name than in his bring an action in a fictitious name than in his own or against a fictitious person one of these names was used. The practice was abolished In 1852

Dog Domesticated quadruped. It is do rived from one or more species of the canino genus of flesh cating mammals. The systematic name, canis familiaris, is a conventional not a zoological classification. Its Tho nearest concener is the wolf, their crossing producing fertile offspring but some breeds engrest other ancestral relationships as the jacl al and the hyena

Dogs may have domesticated themselves in mesolithic times, ten thousand years of human as ociations have developed mutual

trust and affection

Dogs are classed as sporting and non sporting. There are many Linds widely

different in size and other qualities and new breeds are evolved from time to time The Scalyham terrier and the Corgi are recent breeds They range from large dogs such as the Alsatian wolfhound and the bloodhound, to tiny pet dogs The terriers form one large group and the spaniels another The foxhound, the greyhound and the harrier are the chief sporting dogs

Dogs are chiefly kept for companionship, but they are still useful for guarding houses and property, especially in country districts. In the Arctic regions they are used to some extent

for drawing sledges

The breeding of dogs is a considerable dustry. The first dog show was held in industry 1859, and in 1873 the Kennel Club was founded There are now over 520 shows, Cruit's being the chief Another organisation is the Tallwagers' Club at Temple Avenue, London, E C In Great Britain a licence of 7s 6d a 7ear must be taken out for a dog unless it is kept by a shepherd or a blind person The owner of a dog is liable for any damage or injury done by it

Dog Days Period beginning between and lasting for 30 to 54 days The heat and unhealthiness of these days in ancient Egypt were held to be due to the rising of the dog star Now the period is generally considered to last

from July 3rd to August 11th

Doge
Title of the chiof magistrate in the
Venetian and Genoese republics In Venice in the 8th century city tribunes were replaced by a single dux, or leader He was chosen for life and the office lasted until the overthrow of the republic in 1797 In Genoa the doge first appeared in the 16th century He was elected for life, later for two years

Dog-fish Several species of small sharks they are found in packs in temperate and tropical waters British species include the large spotted nurse hound (Scyllium catulus) and the small spotted rough hound (S camcula) They are marketed as rock for the time that the salmon and their rough shagreen skin is used for polishing wood. The more abundant dog-fish (Acanthias tulgaris) produces the young alive, the other species produce them from ergs. The fish is from 3 to 5 ft in length

Dogger Bank Sandbank in the North Britain and Denmark, covers about 1200 sq m and is farnous for its cod Here on Oct 21, 1904 during the Russo Japanese War, a Russian fleet inadvertently fired on some British troulers and did some damage for which

On Aug 5, 1781, there was a sea fight here between the English and the Dutch, but neither side gained any advantage

BATTLE OF DOGGER BANK. On Jan 24. 1915 the German cruisers crossing to attack the British coast were met on the Dogger Benk by some British cruisers under Sir D Beatty The Germans retreated followed by the British, and a fight took place Beatty's ship, Lion, was hit and, while be was out of action, the fight was broken off about 90 m from Heligoland The British losses were slight. Of the German ships Blücher was sunk and Scydlitz and Derflinger dameged

Doggett Thomas Irish actor Born in Dublin, he approved on the London stage in 1691 and soon became one of the leading actors of the day. He acted in some of Congreve's comedies and died in 1721

In 1715 Doggett gave some money for a race for watermen on the Thames The course is from London Bridge to Chelsea, and the prize is known as Doggett's Coat and Badge The race is rowed annually on Aug 1.

Dogma Opinion, stated positively, and supposed to have been previously shown to be true, as opposed to one deduced from experience or demonstration. In theology it was intended to mean a doctrine defined by the church, and put forward, not to be discussed, but simply believed But as this method of stating truth often comes to mean the assertion of unfounded opinions, dogma has come to be used in English for an assertion without any proof, hence dogmatism, meaning uncritical acceptance of beliefs or principles.

Dog Rose Prickly bush of the rose curope, Siberia and N Africa (Rosa canna) Britain's largest wild rose, it grows in thickets It has hooked prickles and hedgerows scattered uniformly on long arching branches, and white or red flowers bearing crimson hips. About 30 varieties are found

Dogs isle of. District of London Formerly Thames, opposite Greenwich, it was made into an island when the docks were built From it there is a tunnel under the river to Greenwich. The name is said to be due to the fact that the king's lennels connected with the palace at Greenwich were here

Dog Star Alternative name for Sirius, heavens It is found in the constellation Canis Major It was regarded by the ancients as herald of the hot season, hence the term "Dog days "

Dog Watch Period of time on board to 8 pm and is divided into the first and second dog

Dogwood Genus of shrubs and small trees of the cornaceous order They are native of temperate and subtropleal regions The common Cornus sanguinea has egg-shaped leaves, reddening Genus of shrubs and small autumnally, and clustered cream-white flowers bearing black-purple berries The tough wood serves for ladder spokes and skewers. berry-bearing alder (rhamnus frangula) is some-times called black dogwood

Dolcoath Village of Cornwall It is near Camborne and is famous for its copper mine, one of the richest in England.

Doldrums Name given by sailors to a belt of low pressure in the equatorial regions where the NE and SE trade winds meet. In the days of sailing ships vessels were often becalmed in this region, which is characterised by heavy rains and violent thunderstorms

Dole See Unimployment

Dolgelley Market town and urban district of Merionethshire, also the county town It is on the GW. Rly 230 m from London and stands amid beautiful scenery, Cader Idris being near 2261 Pop (1931)

Doll Puppet representing the human figure Its use as a plaything is traceable in very early times and examples exist from 18th dynasty Egypt, western Asia, Greece and Rome Cortes found Montezuma and his court

playing with claborate dolls, some encountered in negro Africa apparently have a magical significance American Indians and Eshimos

also use them

Dolls are very popular toys and making of dolls, dolls houses and dolls' perambulators is an important branch of the toy industry

Dollar Burgh of Clackmannanshire It is 6 m from Allon, on the L N E

Rly It is famous for its school, Dollar

Academy, bull in 1819 Near are the ruins of Castle Campbell Pop (1931) 1485

Dollar variant of theler, and the first.

Dollar Silver coin The word is a dollars were the Spanish pieces of eight To day the dollar is the monetary unit of the United States, Canada and Newfoundland It is worth 4s 11d and is divided into 100 cents It circulates chiefly in the form of paper money, but silver dollars are coined Adopted in 1792, the American dollar is based on a gold standard and its par value is normally 4 86 to the £ sterling

The Mexican dollar and the dollar that circulates in the Malay States is a coin of 28 0 d d, or just about half the American dollar The Mexican dollar is also called the pose

Dollfuss Dr Englebert Austrian Chancellor and Dictator Born in 1802, he joined the Christian Social party, and was successively Secretary of the Lower Agricultural Chamber, Director of the was successively Secretary of the Lower Agricultural Chamber, Director of the Chamber President of the Railways, and, in 1931, Minister for Agriculture and Forestry As Chancellor in 1933 he stood out against Nazi intrusion in Austria, banned Nazi fiags uniforms and meetings, closed the Nazi head quarters and was largely instrumental in saving Austria from Nazi commation Later in the year he became dictator, but in July was assassinated by Nazis in the Chancellory at Jenna 7 ienna

Dolmen Megalithic chamber It consists of an unliewn capstone polsed on two or more unhown uprights. They originated under neolithic conditions as sepulchres for eminent persons and were covered with earth or stone. They are some times mistakenly called cromlechs or druid

Dolomite Magnesian limestone It is composed of carbonate of lime and carbonate of magnesia in almost equal proportions Brittle and lustrous it is used in the production of steel and for building pur poses. It is found in England and Scotland and in the Alps, also in Canada and the Trans vaal Dolomite is named after a French geologist, D. G. de Dolomicu (1750 1801). Brittle and lustrous it is used in

A division of the Alps is called the Dolomites This is in the Trentino and stretches north from Trent A district of the Transvaal is known as

the Delemite region

Dolphin Cetacean mammal (Delphinus delphis) It inhabits the Mediterranean and temperate Atlantic vaters Black with vellowish stains, it follows ships in Binck with vehowish status, it follows ships in large herds being often entangled in mackerel nets in the English Channel With sharp shouts they are about 7 ft long The dolphin family includes the bottle nosed white beaked and white sided varieties. Several freshwater dol phins of another family occur in the Ganges Amnzon and La Plata rivers British fishermen improperly call the coloured fish Coruphaena the Portuguese dorado a dolphin

Dome Hemispherical structure forming the roof of large buildings and supported on arches, triangular vaulting, low

walls or corbels The dome is characteristic ntine and Mohammedan of Coptic, Byzantine and Mohammedan architecture The Copts used it for churches of the basilica type, the Byzantine architects of architecture roofed large spaces with groups of domes and somi domes, while in Mohammedan architecture the dome, first used for burlal places, became the distinctive feature of mosques. The great central dome of the Pantheon at

Rome is a fine example

In England, famous domes are those of
S Paul's Cathedral, strengthened in 1929 by
a massive chain, and the British Museum The dome of S Peter's, Rome, is 139 ft in dla meter, that of S Sophia, at Constantinople, motor, that of S Sophia, at Constanting is 115 ft or a little larger than that of S Paul's, London

Domesday Book Survey of Eng drawn up by order of William the Conqueror in 1086 and gives an account of hardand as it then was It states for each county except those in the north, who are the holders of the land and what each holding is worth, also what it was worth in the time of Edward the Confessor Other details given are the names of the landholders, the numbers of villeins, cottars and others on each holding the num bers of oxen, pigs etc and a good deal of miscellaneous information A careful study of the book has thrown a vast amount of light upon the social and economic conditions of the time. The original is in the Public Record Office, London, facsimiles have been printed

Domestication ing animals and plants to live and propagate under human control it comprises controlled mating, food plants to live and propagate under human control It comprises controlled mating, food provision, shelter and training for specialised services Dogs were perhaps self domesticated before they were bred for herding and hunting in Asia and Frypt in neolithic times Tamed horses, asses and camels were mill ed before man broke them in for riding and transport. Domesticated cattle, goats and other animals may have been tamed by milking them for sacrificial purposes

Science Practice of conducting Domestic the work of the home It includes cooking and the various cleaning processes Of late years much attention has been paid to training in housecraft, many schools for girls have classes for the various subjects and there are training colleges in the large towns as well as schools for cookery. Some of them, Monchester are under municipal control Some of them, as in

For Teachers of Domestic Subjects, courses are provided at Kings College, London, National Training School of Cookery Bucking ham Palace Road S W 1 Training College of National Training School of Cookery Bucking ham Palace Road S W 1 Training College of Domestic Subjects Berridge House Fortune Green Road N W 6 Battersea Polyttechnic Domestic Science Training College S W 11 and in the provinces there are several Training Colleges of Domestic Science—Gloucester, Bath Leeds Leicester Liverpool, Manchester, and Newcastle-on Type

Domestic Servant Person ployed in a house for work therein In 1921 there were over 1,200,000 domestic servants in Great Britain so it is now one of the largest of occupations at least for women The domestic servant of the 19th century usually lived in the house, but to day a large proportion go daily to their work and live at home Domestic servants must be insured by their employers under the national health scheme

weekly premium is 1s 1d and includes a made him so hated that a conspiracy was payment towards the Old Age pension. They formed and he was murdered by a freedman in payment towards the Old Age pension They are not insured against unemployment, but the employer is liable if accidents happen to them in the course of their work

Domicile In English law the place of a man's permanent abode It begins with a domicile of origin, that of his parents at his nativity On reaching his

parents at his naturity. On reaching his majority he may acquire a domicile of choice in another state, if he intends to remain there A married woman's domicile is that of her husband

Dominic Spanish saint He was born of good family in 1170 at Calaroga, in Spain, was ordained in 1195, and, as an Augustinian canon, was sent by Innocent III to fight the Albigensian heresy Succeeding as a persuasive missioner, he was permitted to found the order of preaching frars in 1218 and lived to see it flourishing in Toulouse and elsewhere He died on Aug 6, 1221, and was canonised in 1234

Island of the West Indies, Dominica one of the Leeward Islands A British possession, it is 29 m long and covers about 300 sq m It lies between Guadeloupe and Martinique Roseau is the covers about 300 sq m I Guadeloupe and Martinique capital and the chief scaport. Guadeloupe and Martinique Roseau is capital and the chief scaport. The island is mountainous, but much of the soil is fertile and tropical fruits are grown, including limes, used for making lime julce. It is governed by mountainous, and tropical fruits are grown and tropical fruits are grown used for making lime julce It is government an elective council Pop (1931) 43 098

Order of preaching friars founded by S

Based upor

Based upon S Augustine's monastic rule, it received papal sanction in 1218 The Dominicans came to England in 1221 and were called the Black Friars because they were a black mantle and scapular over a white habit They established 57 British friaries and one nunnery before the dissolution of the monasteries Their English dissolution of the monasteries province was reorganised in 1850

Name Dominican Republic sometimes used for the West Indian republic of Santo Domingo (q v)

Dominion Word denoting lordship or authority It was chosen from Ps. lxxii to designate Canada when its provinces were federated by the British N America Act, 1867 The union, proclaimed July 1, is celebrated annually as a national holiday called Dominion Day The name, taken by New Zealand, 1907, also embraces other parts of the British Empire which have other parts of the British Empire which have attained Dominion status There are six of these Dominions Canada, Australia, New Zealand, Newfoundland, the Union of South Ireland Africa and the Irish Free State The Dominions situated Omco, created in 1925, transacts business with the Dominions, previously transacted by the Colonial Office

Domino Originally a priestly hood worn by clerics It came to be used for a hooded cloak with wide sleeves worn with a half mask to conceal the features at a masked ball. The half mask itself is called a domino, as is the person who wears it.

Domitian Roman emperor A son of the Emperor Vespasian, his full name was Titus Flavius Domitianus Augustus Having been proclaimed emperor by the soldiers in A D, 81 in succession to his brother Titus, he ruled badly, had to buy by the soldiers in AD, 81 in succession to his brother Titus, he ruled badly, had to buy peace on disgraceful terms from Decebalus King of Dacia, and through jealousy recalled Agricola from Britain. At last his cruelty

AD 96 Domodossola Town of Italy It is on the French frontier,

on the railway line through the Mont Cenis pass to Turin Here the customs officials examine the luggage of travellers

Don Spanish title Equivalent to the Don English Sir, it was once used solely by the nobility, but is now used in all classes. The term is also used for members of the teaching staffs at the universities of Oxford and Cambridge, and to some extent in other universities

Two famous dons of fiction are Don Quixote, the hero of Cervantes' great novel, and Don Juan, the hero of Byron's poem In real life there were several dons in Spanish history Don John, the victor of Lepanto, was a natural son of Charles V Another Don John, immor-

son of Charles V Another Don John, immortalised in Schiller's poem, was the unfortunate son of Philip II of Spain

On River of Aberdeenshire It rises on the borders of Banfishire and flows E and enters the North Sea at Aberdeen It is 82 m long and the district through which it flows is called Donside There are paper mills on its banks

Don River of Yorkshire (WR.) It rises in the Pennines and flows SE past Sheffield and Doncaster and enters the Ouse at It is 70 m in length River of Russia It rises in Lake Ivan Goole

Don and flows in a southerly direction until it falls into the Sea of Azov It is 1325 m long and is much used, except in winter, for the transport of grain and cattle The chief of its many tributaries is the Donetz. which is 670 m long and flows through a rich coalfield.

The Cossacks of the Don territory were famous and a territory of Russia was named For a short time after 1919 this after them was the Don Republic, but it is now part of Ukraine

Don Kaye British racing motorist Born in 1894, he entered the Air Force In 1924 he made a record at Brooklands, but failed to beat Sir H Segrave's record In 1931 he made a world record in a motor boat of 89 9 nautical miles per hour in Miss England II on the Par ana river Later, on Lake Garda, he established a record of 110 m p h and on July 18, 1932, on Loch Lomond, Don broke the world's record in Lord Wakefield's Miss England III with a

Lord Wakefield's alies England 111 with a speed of 119 81 mp h—a speed later exceeded by the American, Gar Wood

Donaghadee Port and market town Ireland It is 25 m from Belfast, and is situated on the south side of Belfast Lough Dairy produce and cattle are exported and some coal is imported. A mail service was formerly operated from here to Portpatrick in Scotland Pop 2220

Italian sculptor and painter Donatello Italian sculptor and painter Born in Florence about 1386, his name was Donato di Niccolo di Betto Bardi He executed many fine statues in marble and bronze, his work being distinguished by a close adherence to nature and keen sense of proportion His masterpiece, "David," is at the Bargello, Florence, and at Padua there is an admirable equestrian statue

Doncaster Borough and market town stands on the River Don, 156 m from London, with stations on the L N E and L M S Rlys Its population has grown a good deal in the 20th century owing to the opening of coal mines in the neighbourhood There are engineering works, railway shops and manufactures of glass artificial silk, etc The town is a famous racing centre, and on Town Moor the St. Leger is run. Pop (1931) 63,308

Donegal County of the Irish Free State cocuples the N W corner of the country and covers 1860 sq m It has a long coastline of 165 m on the Atlantic Ocean where there are many inlets, Lough Swilly being the chief The scenery both on the coast and inland is remarkably fine, being wild and mountainous Erigal is the highest peak and Derg the largest lake The Foyle is the longest river The people are chiefly engaged in keeping cattle and pigs, and in fishing The county is served by a system of light railways Lifford is the county town Other places are Letterkenny, Ballyshannon, Bundoran, Raphoe and Donegal Moville and Rosopenna are popular watering places Aran Island belongs to the county Pop (1926) 152,508

The title of Marquess of Donegal has been borne since 1791 by the family of Chichester In 1612 Sir Edward Chichester, Lord Deputy of Ireland, was made a baron. In 1647 a later baron was made Earl of Donegal The family estates were in counties Donegal and Antrim

Donegal Market town of Co Donegal, Irish Free State It stands on Donegal Bay, an opening of the Atlantic between the counties of Donegal and Sligo The bay is 35 m long and at the entrance 30 m. wide The town is connected by railway with Londonderry Pop 1100

Doneralle Market town of Co Cork, It has a station on the G S Rlys 7 m from Mellow Here Spenser wrote The Faeric Queen

The title of Viscount Doneralle has been borne by the family of St. Leger since 1785

Dongola Town of the Sudan. It is on the left bank of the Nile, about the left bank of the Nile, about trading centre It was the British base in the campaign against the Mahdi in 1884 85 Pop 20,000

Dongola is called New Dongola to distinguish it from Old Dongola, a town on the right bank of the Nile, some 75 m to the S This was once the capital of a kingdom which was named after it, but is now an unimportant place

Don Juan Legendary character, appearing in the folk tales of many countries He is first found in written literature in a Spanish play of about 1630, and became the type of the blasphemous sensualist. His popularity is largely due to the musical settings of his adventures, notably those of Purcell, Glück and Mozart

Donkey Engine Small type of steam engine It is used for working a crane or holst or for pumping water into a boiler or tank, and is attached to a larger engine or to a special boiler In this type the piston, driven by steam from the boiler, acts directly on a plunger in a pump cylinder, the action being controlled by a fiv wheel

Donne John English divine and writer Born in London in 1573 the son of a merchant, he was educated at Oxford and Cambridge He served as a soldier and travelled, later becoming a secretary to Lord Eggerton, the Lord Keeper He was already a barrister and he became friendly with many eminent men He was married secretly in 1601 to a daughter of Sir George More, the lady being also related to the Lord Keeper This cost him his position and brought a spell of imprisonment. In 1614 Donne was ordained The king made him one of his chaplains, he became vicar of Keyston, Hunts, and of Sevenoaks and in 1621 was appointed Dean of S Paul's, London He died March 31, 1631 Donne's works include many poems and sermons, including the great Death's Duel,

Donne's works include many poems and sermons, including the great Death's Duet, the work of a scholar and a thinker, who also possessed a graceful style of writing His poems were not published until after his

death

Donnybrook Suburb of Dublin It is was held here each year from 1204 until 1855 It was then a village outside the capital, and its fair won a reputation as the most rowdy of all the Irish fairs

Donoghue Stephen English jockey Born in 1884, he rode his first important winner in 1910, when he won the Cambridgeshire Other successes followed, and after the Great War he was the leading English jockey, a position he retained for some years, riding 143 winners in 1920 On six occasions he rode the winner of the Derby Donoghue also became known as a painter, having a picture hung in the Academy in 1925

Donoughmore Village of Cork, Irish m from Cork and from it the family of Hely Hutchinson takes the title of earl This was given to Richard Hely-Hutchinson in 1801 and has since been held by members of the family The earls eldest son is called Viscount Sulrdale

Doom theme frequently inspired mural paintings in mediaeval churches and dooms were usually represented on the chancel arch The crude realism of weighing the souls in the scales and immersing the doomed in burning cauldrons offered a perpetual warning to wor shippers Once almost universal, many were destroyed at the Reformation, but more than 100 English dooms survive Examples are at Chaldon, Surrey and Shorthampton, Oxon, and there is a fine one in the cathedral at Gloucester

Gloucester

Doon

Lake and river of Ayrshire The loch 51 m long, is in the south of the county on the borders of Kirkeudbright, and contains five small islands The river runs from the loch to the Firth of Clyde near Ayr. It is 36 m long and is the stream immortalised in Burns poem "Ye banks and brace o' bonnie Doon

Doone Name of a famous Exmoor family The Doones are chiefly known because of R D Blackmore's romance, Lorna Doone but they had a real existence They appear to have been a band of robbers who in the 17th century, lived in the ralley of the Bagworthy About 1700, soldiers were sont to root them out, after which little more was heard of them

Dope Term used for certain poisonous drugs Such are cocaine, heroin and opium and their continued use causes a

drug habit in its victims The sale of these drugs is strictly regulated by law in Great Britain, and international efforts are being made to stop the traffic in dope in various countries

Doppler Effect Apparent change in frequency of vibration due to relative motion of the observer The sound of a locomotive whistle alters in pitch on approaching or receding from an observer In 1842 Doppler suggested a similar effect in light waves which has since been demonstrated and usefully applied in astronomical spectroscopy to the investigation of double stars

"Dora" Popular name for the Defence of the Realm Act, passed in Aug, 1914, at the beginning of the Great War Some of the regulations made under it were Sec DEFENCE still in force in 1932

Dorcas Society of women who make after Dorcas (Tabitha) the charitable woman mentioned in Acts ix 36 42

Dorchester Borough and county town from London, on the GW and S Rlys from London, on the GW B Peter's church, in the perpendicular style, has a fine tower There is an interesting county museum. The town has an agricounty museum. The town has an cultural trade and there are breweries chester is interesting because of the extensive early British and Roman remains in and near the town, and for its connection with Thomas

Hardy, the writer  $(q \ v)$  Near by is a wireless transmitting station Pop (1931) 10,030

The title of Baron Dorchester was borne by the family of Carleton from 1786 to 1897

The first baron was Guy Carleton, Governor of Quebec, 1775-78, and Governor-General, 1786-94

He died Nov 10, 1808

The title was recreated in 1899 for Henrietta Anne, daughter of the 3rd baron

Dorchester Village of Oxfordshire It is on the River Thames, n m from Oxford It is famous for its church. once the church of an abbey, and for its other ecclesiastical associations, as it was the head-quarters of a bishopric from 635 to about 1080

Dorchester House Residence Park Lo London, now demolished Built in 1851-53 for Sir George Holford, it was one of the finest residences in London, with a wonderful collection of pictures, books and works of art In 1926 it passed to the Earl of Morley, who afterwards sold it An earlier mansion was the residence of the earls of Dorchester. The site is now occupied by a hotel called the Dorchester

Dordogne River of France It rises in the Puv de Dome mountains and flows for some 300 m mainly in a westerly direction until it joins the Garonne The two form the estuary of the Gironde Its chief tributaries are the Cère, Isle and Vézère

An inland department of France is named after the river Its extent is 3550 sq m In the rocks of the valley of the lower Vezère are prehistoric caves, important for the study of Palaeolithic man. Perigueux is the capital

Dordrecht (or Dort) Town of It stand It stands on

Merwede, which flow through the town chief buildings are the 14th century church, with a lofty tower, and the restored town hall

Pop (1932), 57,959

Here in 1618-19 the Synod of Dort met.
Its alm was to settle the points at issue between the Calvinists and the Arminians In the end the teaching of Arminius was condemned

Doré Paul Gustave French artist. He was born at Strasbourg, Jan 6, 1832 Coming to Paris in 1848, he painted many religious and historical works and achieved some success as a sculptor His fame, however, rests upon his remarkable skill as a draughtsman and illustrator Doré illustrated a great number of standard books including the Bible, Paradisc Lost, Dante's Inferno, the works of Rabelais and Balzac, and Don Quazote His work was very popular in England, and a Doré Gallery was opened in London He died in Paris, Jan 23, 1883

Dorian One of the four great divisions being the Acollan, Ionian and Achaean (q v) After considerable wandering, they finally migrated to the Peloponnese, where they became the governing class and reduced the old inhabitants to slavery Their mythical ancestor was supposed to be Dorus, a son of Hellen

Doric Order One of the principal orders of Greek architecture. It represents the earliest and simplest type of composition The column, which has 20 flutes meeting in sharp edges, has a plain capital, but no base, and varies in height from four to six times the diameter

Dorking Market town and urban district Mole, 26 m from London and is served by two branches of the S Rly Dorking stands in the midst of some of the most beautiful of the midst of some of the most beautiff of the Surrey scenery, Box Hill, Ranmore Common and other beauty spots being near The Glory Woods are public property The place has many literary associations, Malthus, Merodith, Fanny Burney and others having lived here Pop (1931) 10,109 The Dorking is the name given to a breed of

domestic poultry once extensively raised in the Surrey town It is a valuable table bird, especially when crossed with the English or Asiatic game fowl The cocks may weigh Asiatic game fowl The 14 lb The hens lay freely.

Dormer Architectural term for a vertical steeply sloping root of a building designed to give light to the interior. In some buildings rows of simple dormers were placed in the roof but in many of the Gothic and Renals sance style richly decorated dormers of masonry are seen.

Dormouse Family of small a rodents (Myoxidae) arboreal They are widely distributed from Britain to Japan Unlike the squirrels, they hibernate half the vear in nests in which nuts are stored The graceful English dormouse (Museurdinus avellanarius) has a hairy tail, prominent eyes and untufted ears It consumes insects as well as havel nuts and corn The continent of Europe possesses larger edible and garden forms, the there is also a N. African genus

Dornoch Royal burgh and watering place of Sutherlandshire, also an island in the Meuse, 12 m from Rotterdam, a prosperous river port with a number of manufacturing industries. Much of its trade it is on Dornoch Firth 58 m from Inverness, goes by canal or along the Meuse and the

it had a cathedral, restored in 1837

is a fine castle

a fine castle Pop 725 Dornoch Firth is an inlet of the North Sea between the counties of Sutherland and Ross and Cromarty It is 22 m long and is a noted fishing area

Doronicum Genus of asteraceous asteraceous positae The garden doronicum (Arnica nudi caulis), or leopard's bane, is a hardy perennial two or three feet in height, with large golden daisy like blooms It is easy of cultivation in any soil, preferably in a shady position Plants should be cut down after flowering and increased by division in the autumn

Dorset County of England In the south of the country, it covers 987 sq m and has a coastline of 75 m on the English Channel Portland Bill is a feature of the coast It is almost wholly an agricultural and rural area, although it is famous for its stone, especially Portland and Purbeck, fighing is an industry. Downbestor (ar.) is the fishing is an industry Dorchester (q v) is the county town. Poole and Weymouth are sea ports, Swanage and Lyme Regis are watering places Spots of historic and other interest are Bridport, Sherborne, Shattsbury, Gilling ham and Blandford The county contains Corfe Castle and many other antiquarian remains, and in modern times is celebrated as the scene of Thomas Hardy's novels The the scene of Thomas Hardy's novels. The dialect, in which William Barnes wrote his poems, is preserved. The county is served by the G W and S Rlys. It is in the diocese of Sallsbury. Pop. (1931) 239,347.

The Dorset Regiment, formerly the 39th and 54th foot, is recruited in the county. It was raised in 1702. Its motto is Primus in Indis.

the depôt is at Dorchester

Dorset Earl of English title borne by the family of Sackville from 1604 to 1843 There was a Marques of Dorset before this time the title being held by the family of Beaufort and then by the Greys Thomas Sackville (1538 1608) the 1st earl,

was a poet, but is better known as a politician and ambassador in the time of Elizabeth descendant Charles Sackville (1638 1706), the descendant Charles Sackville (1638 1706), the 6th carl was also a poet who took part in public life His son, Lionel, the 7th carl, was made Duke of Dorset in 1720, and there were dukes of Dorset until the main line of the family died out in 1843

Dortmund Town of Germany It stands on the River Em scher in Westphalia 50 m from Düsseldorf Life Savard by a good will reversely and is

It is served by a good railway system and is the terminus of a canal to the Ems Most of the town is modern, but some streets and houses in the older part date from the time when it was a free city and a flourishing member of the Hanscatle League Dortmund a industries are due to its position on the coal field Among them are the manufactures of iron and steel goods, including machinery and railway stock. Its transport trade is also considerable. Pop. 525 837

Dory (Zeus faber) Fdible, marine spiny finned fish also called John Dory Found in British, Mediterranean and Australian waters, it is olive brown in colour, with dark spotted yellowish sides and few or no scales, and is valued for the table

Dostoievsky Feeder Mikhaile Russian novelist Mikhailovitch Born in Moscow, Oct 30, 1821 he was educated as an engineer, but soon becan to write His first work, translated as Poor Foll, was

In 1849 his political There | published in 1846 activities led to his arrest and he was sent to Siberia where he remained for four years, after which he spent three in the army The rest of which he spent three in the army his days were spent in writing and travelling He died in St Petersburg, Jan 28, 1881
Dostolevsky was the first and one of the Russian realists

His works

greatest of the Russian realists His works have been translated into English and include Crime and Punishment, his masterplees, the autobiographical House of the Dead, The Idiot A Raw Youth and The Brothers Karamazov

He also began An Author's Diary Dotterel Bird of the plover family Though becoming rare in England it still breeds in Scotland It is about 9 in long, its plumage being brown with black and white markings Its eggs, usually four in number, are pear shaped, of stone colour, and laid in a slight hollow—It is found in moun

tainous areas and feeds on insects and grubs Doual Town of France It stands on the Scarpe, 20 m from Lille The buildings include the churches of S Peter and Notre Dame The ancient fortifications are represented by two massive gateways and other remains During the Great War Doual was occupied by the Germans Pop 41 598

Doual was one of the chief towns of Flanders

bound was one of the chief towns of Flanders in the Middle Ages and here the Parliament of Flanders met. It is best known however, as an educational centre From 1562 to 1793 it had a university and from 1818 to 1903 a college for the training of Roman Catholic priests for work in England The translation called the Doual Bible was issued here in 1610

Village of France It stands on the right bank Douaumont of the Meuse, 3 m from Verdun, and was the scene of some terrible fighting between the French and the Germans in 1916 The fort here was taken and retaken several times between Feb and Oct, the last time by the French

Double Bass Largest instrument of Shaped like its ancestor, the bass viol, the double bass, sometimes called contra bass, has four strings and corresponds in pitch to a

Doublet Male close fitting outer garment. In Europe from the 14th to the 17th contury Originally leather belted, it became carefully blocked and even padded, with fixed or detachable sleeves. In Stuart times it became a close less undergraped in the procurer of the sleeveless undergarment, the precursor of the Feminine fashlons some modern waistcoat times simulated it

Doubling Folding or plaiting It may skirts or in heraldry the ermine lining of mantles It may also be the doubled course of reofing slates at the caves or an extra layer of ships planking. Another form of doubling is the formation of yarns, cotton or woollen, from single strands, an important operation in the textile industries

Doubloon Gold coin of Spain It also circulated in Spanish Ameri can states In the 17th 18th conturies it was worth about 368 A new type, the Isabel doubloon, representing 100 reals, and worth 20s 8d, was issued in 1848, but was discontinued after 1868

Double Term applied in medical treatments.

Douche ment to a jet or column of water directed upon a part of the body It is used in

Doughty Charles Montagu English Aug 19, 1843, the son of a clergyman, he was cducated at Cambridge, where he took a science degree Later he travelled extensively in three continents, Europe, Asia and Africa His most remarkable journey was begun in 1876 when he made his way through parts of Arabia then autten physical and the continents of the state of the continents of the state quite unknown to Europeans He wrote an account of this as Arabia Descria, a masterplece of English style Doughty wrote The Dawn in Britain, The Cliffs, The Clouds and other volumes of poems He died at Sissinghurst, Jan 20, 1926

Douglas Capital of the Isle of Man and a watering place It stands on Douglas Bay, on the east side of the island, where two streams fall into the sea, is connected by steamer with Liverpool, Barrow-in-Furness. quite unknown to Europeans He wrote an

by steamer with Liverpool, Barrow-in-Furness. Belfast, Glasgow and Fleetwood, and is one of the most popular pleasure resorts in the country On Prospect Hill are the buildings of the government of the Island, including the House of Keys The course for the motor cycle races starts and finishes in the town Pop (1931) 20,326 Douglas Head is a promotion to the south montory to the south

Douglas Village of Lanarkshire It is LMS Rly, and is famous for its associations with the great family of Douglas which took its name from here There are remains of their castle and also of S Bride's church in which many of them were buried The word means "dark water"

Douglas Scottish family It takes its name from Douglas in Lanarkshire, but its chief power was in Galloway, around Castle Douglas The family became powerful about 1200, or a little later Sir James Douglas, called the Black Douglas, was one of the most famous fighters of his time

He was one of the associates of Robert Bruce and is the Douglas immortalised by Scott He was killed fighting in Spain in 1330

A later Douglas, Archibald, was made Earl of Douglas in 1358 and he and his successors were great men in the border fights of these days of the second of t days One is mentioned in the Ballad of Chery Chase Archibald, the 4th earl, was made a duke of Franco and was killed at Verneuil in 1424 In Scotland the power of the Douglases became almost equal to that of the ling, so in 1440 William, the 6th earl, was put to death This weakened their position, but William, the 5th earl, was a powerful person until he was murdered by King James II at Stirling in 1452 The great ago of the family may be said to have ended when the last earl

aicd, after a long exile, in 1488
A Douglas became Ferl of Angus in 1389, and in 1633 the 11th earl was made Marquess of Dourlas In 1703 the 3rd marquess was made a duke and there was a Duke of Douglas until 1761 Another Douglas was made Marquess of Queensberry in 1681 and the dukes of Queensberry were Douglases In addition to the marquess, the family is represented in Scotland to day by the Duke of Buccleuch, the Duke of Hamilton, who bears the title of Marquess of Douglas, the Farl of Marquess of berry were Douglases Douglas, the Earl of Morton and Lord Tor-phichen who is the heir general of the house The Earl of Home 18 a Douglas in the female line

heumatic affections such as lumbago and certain conditions of the joints due to inflammatory exudations, also in internal complaints

| A condition of the joints due to inflammatory exudations, also in internal complaints | Secretary for part of that time | From 1843-1841 | Fro Washington and from 1847-1861 was a member Washington and from 1847-1861 was a member of the Senate He is chiefly known as the opponent of Lincoln from whom, in 1858, he won a seat in the Senate The contest was renewed when both stood for the presidency in 1860 On this occasion Lincoln was the victor Douglas died in Chicago, June 3, 1861

Douglas Pine N American evergreen tree of the cone bearing order (Pseudotsuga douglasii) Also structions, masts, spars and rallway sleepers Red and yellow fir varieties occur It grows to a height of 300 ft.

Doukhobors Religious sect. They arose in Russia in the 18th century Their beliefs are not unlike those of the Quakers They object to the use of icons or images and put a mystical interpretation on the facts of the Bible Their refusal to serve as soldiers, another article of their fath, has involved them in persecution There are small colonies of them in Canada

Doullens Town of France It is 17 m from Arras with a railway station Its position made it important during the Great War and here, in March, 1918, a conference was held at which Marshal Foch was made Commander of all the Allied armies There is a British cemetery near the town

Doulton Name of a brand of ware made at the Doulton Pottery Works, Lambeth The founder of the firm, Sir Henry Doulton (1820-1897) entered his father's potteries in 1835, and as the result of his experiments introduced the use of a good enamel glaze Eleven years later, the manufactured in the second second control of the second con facture of sanitary and drainage ware was started, and in 1870 Doulton turned his attention to the production of art pottery, employing for this purpose a number of artists whose work has become famous Knighted in 1878, he died Nov 17, 1897.

Doumer Paul French politician Born at Aurillac, March 22, 1857, he became a journalist In 1888 he was elected to the Chamber of Deputies In 1895 96 he was Minister of Finance, and from 1897 to 1902 was Governor General of Indo China In 1905 06 he was President of the Chamber of Deputies, and in 1912 he was elected to the Senate In 1917 he was a member of the Painlevé Cabinet and in 1921 22, and again in 1925-26, he was finance minister In 1927 Doumer was chosen president of the Senate, and in May, 1931, was elected President of the Republic defeating M Briand In May, 1932, he was shot by a foreigner when at a crowded social function, and died a few hours later

Doumergue man Born Aug 1, 1863, he became a lawyer and entered the public Gaston French states. to the Chamber of Deputies in 1893 From 1902-05 he was Minister for the Colonies, from 1906-08 Minister of Commerce, and from 1908-08 Minister of Commerce, and Commerce The Earl of Home 13 a Douglas in the female line

10 Minister of Education In 1910 he entered the Senate and in 1913-14 was for a short time the Senate and Minister for Foreign

Affairs, from 1914 17 he was Minister for the Colonies. In 1923 Doumergue became President of the Senate, and in 1924 he was elected President of the Republic, the first Protestant to hold that position His term ended in 1931

Doune Burgh of Perthshire It is on the Teith, 46 m. from Edinburgh, on the L M S Rly The chief object of interest is the ruined castle Having held out for the this was dismantled in work has been recently 1746 Restoration wo Pop (1931) 822

Douro River of Spain and Portugal It Valladolid and Zamora, reaches the frontier For about 60 m it forms the boundary between the two countries, after which it crosses Portugal to enter the sea near Oporto Owing to rapids it is not of great value commercially, although it is used by the Portuguese to some extent There are many fish in its waters and its length is 485 m. The eldest son of the Duke of Vyellington bears the courtesy title of Marquess of Douro

Dove Name denoting indiscriminately any bird of the pigeon family In popular usage it generally designates the best known smallest species, such as the ring dove or wood pigeon stock dove, rock dove, whence all our domestic pigeons are derived—and the turtle

dove

Dove River of England It rises on Axe the countles of Derby and Stafford After a course of 45 m it joins the Trent at Newton Solney

Dovedale, the pass through which it flows, is a famous beauty spot noted also for its association with Isaac Walton It has been proposed to make it into a national park

Dove Flower Central American orchid (Peristeria elata) American It is a robust plant living parasitically upon others, with a flower stalk upon whose upper most third cluster fragrant creamy white flowers with illac specks at the lip base Its resemblance to a dove with expanded wings led the Spaniards to term it the Holy Ghost flower

Dover Borough, scaport and market town of Kent It stands on the Strait of Dover, 77 m from London and is the chief port for communication with Franco It has stations on the S Rly, and from it steamers go regularly to Boulogne Calais Ostend and elsewhere The chief building is the castle with a Norman keep and here also are some of the

oldest buildings in England The port has two harbours One was a naval harbour until the dockyard was closed in 1920 Both have been improved to accommodate large vessels. There are good sands a promenade and other attractions of a popular

watering place

Dover was one of the Cinque Ports (q v ) and has been an important place from Roman times Kings and armies have landed here and off the town sea fights have taken place By the secret Trusty of Dover, 1670, Charles II agreed to become a Roman Catholic and to help Louis XIV in return for an annual payment In the Great War Dover was the headquarters of the patrol responsible for guarding the straits and a base for the troops overseas Pop (1931)

DOVET Strait of Stretch of water con English Channel It is 21 m. across from Dover to Calais. The Strait was swum by Capt

Matthew Wobb in 1875 and the feat of "swimming the Channel," achieved several times since the Great War, means swimming the Strait The proposed Channel Tunnel is

Dovercourt Seaside resort of Essex. It Harwich and is situated on the Stour estuary, 70 m from London on the LNE Rly The beach is smooth and sandy, and the attractions include golf courses Here Captain Fryatt is buried

Dovey River of Wales About 30 m long, it rises on Aran Mawddwy, and flows S W into Cardigan Bay For some distance it forms the boundary between Cardiganshire and Merionethshire It has a considerable estuary, upon which stands Abordovey

Dow Gerard Dutch painter Born at Leyden in 1613, he studied painting under Rembrandt and became one of his most famous pupils His many works, including a number of portraits, are in the great European galleries Notable are The Poulterer's Shop," in the National Gallery, London, and 'The Dropsical Woman' in the Louvre, Paris He died in 1675

Dowager Really a widow with a dower holder of a title which has passed to another Thus, the widow of a duke is the downger duchess, to distinguish her from the wife of the present duke Of late years the use of the word in this sense has been to some extent dropped for the Christian name which precedes the title, thus Clarice, Countess of Dorking

Dower In law the amount allowed to a estate By English law a husband can leave whatever he likes to his widow as a dower, by Scottish law the dower is one third of the real property left by a dead man The dower house, found on many landed estates was the residence of the downger or widow with a dower

Dowlais District of Merthyr Tydvil It

steel works in the neighbourhood

Down Country of N Ireland In the east coastline on the Irish Sea Strandford Lough penetrates the country and Belfast Lough is to the north Downpatrick is the country town Other places are Lisburn, Comber Dromore Newer Reaphyldge Dundrum Newton and Newry, Banbridge, Dundrum, Newtonards and Bangor There are a number of watering places on the coast, including Newcastle and Donagha dce and in the county are some of the suburbs of Belfast The rivers are the Bann Lagan and The soil is fairly fertile although hilly. Nowry in the south are the Mourne Mts Its area is 857 sq m Agriculture is the main industry, but a good deal of fine linen is manufactured Down is well served with railways radiating from Belfast and by canals Down is one of the dioceses of the Church of Ireland Pop (1926) 209 228

Downe Willage of Kent It is 6 m from Bromley and 2 from Farmborough Here Charles Darwin lived for many years and his home is now the property of the British Association

The Irish title of Viscount Downe has been borne by the family of Downay since 1680

The estates are in Yorkshire

Downham District of London. It is parily in the Borough of

Lewisham and partly in that of Bromley, being 9 m to the S E of the city Here the London County Council has laid out a housing estate

William Hayes Fisher, a politician, took the title of Baron Downham in 1918 and the estate was named after him, as in 1919 he was chairman of the London County Council He was in Parliament in 1885-1906 and again 1910-1918, and in 1917-18 was president of the Local Government Board He died July 2,

Downham Market Urban district town of Norfolk It is on the Ouse, 10 m from King's Lynn, on the L.N.E. Rly There is a King's Lynn, on the L.NE Rly There is a trade in agricultural produce Pop (1931) 2463

Downing Street London street It leading from Whitehall and in it are the official residences of the Prime Minister, and the Chancellor of the Exchequer and the offices of the chief whip of the party These form three connected houses, Nos 10, 11 and 12 On the other side of the street is the Foreign Office The street owes its name to Sir George Downing, Secretary to the Treasury, 1667 All the Prime ministers since Sir Robert Walpole have lived here Walpole have lived here

Downing College, Cambridge, was founded in 1800, with money left by a grandson of Sir George Downing

Downpatrick City and county town of Co Down, N Ireland It is 27 m from Belfast and stands near Strangford Lough, on the Belfast and Co Down Rly The chief building is the cathedral There are some manufactures S Patrick is said to have been buried here Pop 3200

Downs Two ranges of chalk hills in S England They are called the North and the South Downs, and sometimes sections are called the Hampshire and the Marlborough Downs The North Downs are in Kent and Surrey, the highest point being Leith Hill The South Downs are in Kent and Sussex, and between the two ranges is the district called the Weald The Downs run also into Hamp-shire, Berkshire and Wiltshire

The Downs is also the name given to the roadstead off the coast of Kent between Deal and the Goodwin Sands It is about 8 m long and 6 wide There were several fights here between the English and Dutch fleets in the

17th century

Downside Monastery near Bath It was established as a house for Benedictines in 1814, having previously been in Shropshire. The house has a fine range of buildings and the monks maintain a school, one of the leading Roman Catholic public schools in England

Doyle Family of artists John Doyle, born in 1797, was an Irishman who settled in London in 1821 He made a reputation by his caricatures of politicians and others signed H B Many of them are in the British Museum

He died Jan 2, 1868

His son, Richard Doyle, inherited his father's sifts For many years he was a contributor to Punch and he designed the cover which was used from 1849 to recent times He also illustrated books painted in water colours and wrote for the Cornhill Magazine He resigned from Punch in 1850 because it criticised the Roman Catholic Church, and died Dec 11, 1883

Doyle Sir Arthur Conan English novelist. Born in Edinburgh, May 22, 1859,

he was educated there and became a doctor ne was enucated there and became a doctor He practised medicine for a time, but soon proved he had a distinct gift for writing From 1887, when A Sludy in Scarlet appeared, he wrote incessantly and on a variety of subjects, and although he does not stand in the first rank of novelists some of his work is of very birth analysis indeed.

high quality indeed

The chief of many claims to fame is the creation of the detective Sherlock Holmes, whose adventures are related in a number of volumes. His historical novels, notably The White Company, Micah Clarke and Rodney Stone, are among the best in the language. His power of telling a story is well seen in the delightful series dealing with Brigadier Gerard, and in his volumes of short stories Dovle wrote a popular history of the Boer War, in which he served as a doctor, and one of the Great War In later life he gave much time to spiritualism, in which he strongly believed. Knighted in 1902, he died July 7, 1930

Drachenfels Hill of Germany It overlooks the Rhine, 8 m. from Bonn. Magnificent views are obtained from the top, which can be reached by a railway from Königswinter It is 1065 ft high and on it are the ruins of a castle. The name means dragon's rock and the legend is that in a cavern in the hill lived the dragon that was slain by Siegfried

Drachm Unit of weight It is one-dupois, or one eighth of an ounce in the old anothecaries' weight Drugs are still companies by pounded and prescriptions made up by apothecaries' weight, except in the British Pharmacopoeia, where avoirdupois weight is used. The word is often abbreviated to dram

Drachma Standard monetary unit (silver coin) used in the Republic of

Draco Magistrate at Athens. He lived about 600 BC and was responsible for putting the laws in writing These laws were severe, although not more so than others of that age, and since then the word draconlan has been used for severity

Draco is also a Latin word for a dragon As such it is given to a constellation between the two bears, and to a genus of lizards found in India and thereabouts

Draft Word used in several senses One draft is an order to a banker to pay a sum of money to a certain person Such are used when cheques cannot be employed, in foreign business, for instance Another draft is a rough copy of a document

In military speech a draft is a body of soldiers sent to join a unit perhaps from the depot to a battalion in India During the American Civil War the word was used for conscription In 1863 a law gave power to the president to draft all men between 20 and 45 into the army. The riots which followed were called the Draft Riots

Dragon Fabulous monster typical of evil reptilian quadruped breathing fire and probably evolved from vague memories and imaginings of prehistoric saurians. It is chiefly known as the monster killed by S. George

The dragon is a good deal used in heraldry where it is usually represented with wings. It is one of the national emblems of Wales. It also appears in the heraldry of China and Japan. An old kind of musket was called a dragon.

Dragonet Genus of brilliantly coloured spiny finned fishes (calhony mus) They inhabit temperate and tropical waters The British C lyra, orange blue with Illao and red markings, was previously called the yellow gurnard I is smooth skinned, with pointed mouth and upturned eyes, and is the male of the coast dweller formerly called the dusky skinlyin dusky skulpin

Dragon Fish Genus of small spiny-finned fishes Alfied to flying gurnards, they inhabit Indian, Chinese and Australian waters Their broad, flattened bodies, with stiffened tails, are covered with propulsity the control of the contro movable bony plates, the long rays of the breast fins, sometimes spinous, resembling wings They lack teeth and air bladders The Indian P

draco is typical of the species

Dragon Fly Group of winged insects Nowadays considered a distinct order (odonala), it is of world wide temperate and tropical distribution, and includes 2200 species Only 50 are British Large headed, and strong jawed, with two enormous compound eyes and short antennae it is slender bodied, with four large, transparent, mombranous wings The eggs are deposited in water. The large prevs on other water in water The larva preys on other water organisms, and reaches a nymphal stage of continued activity, instead of becoming a resting pupa, before completing its metamorphosis

Dragon's Blood Resinous exudation from the scaly fruits of a climbing palm. This is a native of Borneo and Sumatra. The resin is formed into rough sticks or irregular pieces and when powdered is carmine red in colour. It is soluble in oils and spirit and is used for colouring varnishes, wood.

horn, marble, etc

Dragon Tree Genus of trees of the llly order A native of the warmer parts of Africa, Asia and Polynesia, it has long leaves, usually lance shaped Its small whitish flowers bear berries Various species are ornamental foliage plants, some bearing this name belong to the allied genus cordyline. The dragon tree (*D draco*) of the Canary Islands attains great size and age One, 70 ft high at Orotava, Tenerifie, destroyed by a berriespecial of 1867, was reputedly 6000 by a hurricane in 1867, was reputedly 6000 years old It was then over 42 ft. in girth

Dragoon To day a kind of cavalry soldior The first dragoons were infantrymen, being so called because their weapon was a musket called a dragon Later they were mounted and were called horse dragoons They were found in the French and other armies as well as in the English one

other armies as well as in the English one
In the British Army to day there are dragoons
and dragoon guards The dragoons consist of
two famous regiments, the First or Royal
Dragoons and the Second or Scots Greys A
third regiment of dragoons, equally famous,
the Royal Inniskillings, was disbanded after
the Great War There are five regiments of
dragoon guards, two others having been
disbanded They are the 1st, 2nd, 3rd/6th,
4th/7th and 5th 4th/7th and 5th

Drainage Term used for the draining off of water from land by rivers, canals or other means Drainage is adopted for the protection of low lying lands from flooding by encroachments of the sea or river inundations, and marshes or areas liable to be flooded at high tide have been reclaimed in many instances by a system of dyles and drainage One third of the area of Holland represents such reclaimed land (polders) and the canal system of drainage is supplemented by pumps worked by wind, steam and electric power Considerable areas in the eastern counties of England have been drained, the Bedford Level being the largest, and it has been suggested that part of the Wash could be drained

DRAMA

Drains Short name for the system by which refuse is carried from a house or other building. In towns the drains are connected with a system maintained by the public authorities, in country districts a cesspool or a soptic tank is often used. Great attention to day is paid to drains,

as evil drains or no drains are a serious menace to health In every building that is erceted they must be approved by the surveyor to the local authority, and kept in good order The most usual test for defective drains is the smoke test

Drake Sir Francis English seaman Born near Tavistock about 1546, he went to sea as a boy In 1567 he sailed with his cousin, John Hawkins, to America, and in 1570 he again crossed the Atlantic and attacked Spanish settlements and ships He repeated the exploit in 1572, when he crossed the 1sthmus of Panama. He then passed a period fighting in Ireland In 1577, with five ships, Drake set out upon a voyage round the world He was away for three years and lost all his vessels except The Golden Hind, but he fulfilled this purpose and in Oct, 1880, sailed into the Thames laden with spoil The first English man to circumnavigate the globe, he was knighted by Elizabeth in 1881 In 1885 he again harried the Spanish settlements in the New World

New World

In 1587 Drake led an expedition to Cadiz, where he burned many Spanish ships and delayed the proposed invasion of England In the Revenge he took part in defeating the Armada, himself capturing the Reserio In 1589 he led another expedition to the coasts of Spain and Portugal, but this ended in the loss of thousands of English lives from disease In 1595 Drake left Plymouth on his last royage He reached the West Indies where he was taken ill with dysentery and died, Jan 28, 1596 He was buried at sea Between his voyages Drake lived in Devonshire He was elected MP for Plymouth and provided that city with a water supply from Dartmoor A British cruiser was called the Drake She displaced 14,100 tons and was 520 ft. long She was sunk by a torpede, Oct 2, 1917

Drakenberg Mountain range in S
Africa It separates the
Cape Province from the Orange Free State and
Natal The highest point is 11,000 ft and
the general height is about 7000 ft Majuba
Hill is in this range The name is sometimes
but wrongly called, Drakensberg, an al
ternative is Quathlambra

Drama Acted story Dramatic art em ploys actors and actresses who simulate real or fictitious personalities They represent their gesture, dumb or spoken, and

represent their gesture, dumb or spoken, and by dress and scenic accessories aid the illusion Represented in Attica on travelling wagons in the 6th century, BC, the classical drama quickly established the unities of time, space and action which have governed all later developments. The storys unfolding, from opening to climax, should be inevitable or at least probable. Interwoven subsidiary incidents should nover distract, attention from incidents should never distract attention from

standing persons, the dramatist's skill, working within the literary conventions of his age, lies in creating characters whose delineation makes

an individual appeal

The early church discountenanced the travelling companies of masked comedians who perpetuated classical Roman models Mystery and morality plays, which provided popular instruction and diversion, preluded the revival of the secular drama under Renaissance influences and the creative outburst Cornelle and Racine This modern drama encountered new influences in Ibsen's realism and Maeterlinck's symbolism

Drama includes tragedy, comedy, melodrama and farce It may be lyrical, expressed in prose or verse, associated with music in opera,

or speechless as in pantomime

Draper (Fr drapter) Trader in textile originally given to a maker of cloth and was then extended to linen The name now applies to sellers of all kinds of silks, woollens, cottons and other manufactured goods The Drapers' Company, whose hall is in Throgmorton Street, is the third of the twelve great livery companies of London Its great wealth has done much for education, especially at Bancroft's School, Woodford, and the People's Palace, Mile End Road, London, E The Drapers' Record, published weekly, is the chief trade

Drapier Name taken by Jonathan Swift when he wrote The Drapier Letters in 1724 A certain William Wood had been given a monopoly for supplying Ireland with copper coins This privilege was disliked in Ireland and Swift denounced the transaction and helped materially to bring about the cancellation of the contract.

Draughts Indoor game It is played with 24 pieces, or draughtsmen, on a board divided into squares The pieces are twelve black and twelve white, and It is played the squares on the board are likewise black and white alternately There are 64 squares and white alternately There are 64 squares and either the black or the white ones can be 32 therefore are used and on 24 of them the players place their pieces, leaving eight blank squares between them

The object of the game is to move the pieces forward and to capture the enemy pieces, which can be done by passing over one to a vacant square behind it. When a piece has reached the back row of enemy country it becomes a king and can move either backwards or forwards If a piece is not taken when it is vulnerable, the piece that fails to take it is huffed or removed from the board. In t United States draughts is called chequers.

Draughtsman One who draws plans and designs for buildincs, machinery and the like Draughtsman-ship is a branch of drawing and is taught at schools of art and technical colleges Draughtsmen are employed by the Admiralty on warship design, and by engineering firms of all kinds, as well as by architects Draughtsmen are also employed in some of the textile industries and to draw maps, in the latter case they are also called cartographers

the main action Sometimes utilising national the Danube It is navigable to where it is myths and legends, historic events or outstanding persons, the dramatist's skill, working Villach Its length is 450 m

Dravidian non-Aryan peoples in s Name denoting collectively India and Ceylon Their speech pertains to a distinctive language family of agglutinative form Numbering nearly 60,000,000, they are dark-skinned curly-haired, long-headed, broadnosed and thick-lipped In N India Dravidian has been more or less displaced by Aryan forms of speech, but in Baluchistan olive-skinned, brown-haired Eranian Brahuis speak a Dravidian dialect The principal languages are Telugu, Tamil, Malayalim and Kanarese A distinctive S Indian style of architecture is often called Dravidian

Drawback Repayment of money paid on customs or excise duties. It is usually given in cases where goods, having been imported and paid the necessary duties,

are then exported

Drayton Michael English poet. Born in Warwickshire in 1563, his early life is rather obscure He was associated with Shakespeare and wrote a good deal In 1593 appeared his Idea, the Shepherd's Garland and in 1598 England's Heroical Epistles His longest work is *Polyolbion*, a description of England, 30,000 lines in length, and his best is contained in The Ballad of Agincourt and his sonnets His Nymphidia or The Court of Faery is delightful, and his last work, The Muses' Elysium, deserves mention He died Dec 23, 1631 and to busted the West Land to busted. 1631, and is buried in Westminster Abbey

Dreadnought British warship There have been several warships of this name One fought against the Spanish Armada and another at Trafalgar Spanish Armada and another at Trainigar The latter was long used as an hospital, being moored off Greenwich\_The name is perpetuated

in the Dreadnought Hospital there
The ninth Dreadnought was an entirely new type of battleship and gave her name to a large class She was laid down in 1906 and was armed with ten 12 in guns, earlier ships having only four Her only other guns were having only four Her only other guns were small ones for dealing with torpedo boats There were no guns of intermediate size as there had been in earlier warships The Dreadnought was 526 ft. long and displaced 17,900 tons Her ten guns were so arranged that eight of them could fire on either side. them could fire on either side. The idea of the Dreadnought was taken up by other navies and their strength was calculated in Dreadnoughts. After a time ships carrying still larger guns were built. These are classed as super-Dreadnoughts.

Dream Manifestation of the unconscious mind during sleep Dreams normally attend the state between sleeping and waking when the imaginative faculty is regaining its conscious power after submergence in the unconsciousness of normal sleep. They in the unconsciousness of normal sleep. They concern material already present in the mind, and never the inconceivable, being interpreted by Froud as the fulfilment of unsatisfied desires. The images presented, being unco-ordinated, lack the coherence of reverle, or day dream

Dredging Process of removing mud or other material under water for purposes of deepening a river, canal or harbour, or for the reclamation of swampy ground Dredging is used also in mining for the removal of alluvial deposits containing gold, platinum, tin and other valuable ores, Drave River of Europe It rises in the the removal of alluvial deposits containing Yugoslavia and when near Belgrade it joins the building purposes in the excavation of

sand, gravel and dlay The machines used are known as dredgers and of these there are many types The bucket dredger is a common type and consists of a series of buckets linked together to form a ladder, at the top of which is the receiving hopper.

Dreiser Theodore American writer Born Aug 27, 1871, in Indiana be was educated there In 1892 he joined the Dreiser Theodore. be was collected there in 1952 he could be staff of a newspaper at St Louis but soon became an editor in New York. In 1907 he was made editor in chief of the Butterick Publications. In 1900 Dreiser published Sister Carrie and then followed novels, short stories and easaws in quick succession. These stories and easays in quick succession stories and cassys in quick succession. Those include The Financier, A Hooseer Hollday, Twelve Men Accented and Declaimed, and A Gallery of Women. His best known work is An American Tropedy In A Book about Myself and Dawn he relates his own life story

Dresden City of Germany and the Saxony It stands on the Elbe, 110 m. from Berlin. Dresden is chiefly famous as an art Berlin. Dresden is chiefly famous as an art centre. Its unrivalled collection of pictures, including the Sistine Madonna, is in the museum, part of a huge building called the Zwinger. The palace, in which the kings of Savon, lived until 1918, also contains some There is a magnificent wonderful treasures The Altmark theatre and also an opera house The Altmark is the centre of the old town Noble bridges cross the Elbe and there are promenades along ite banks

Dresden is a great industrial town It is an important railway junction with a great central railway station and there is a good deal of trade along the river. It is an important banking and distributing centre, and there are a number of manufactures Dresden became the capital of Saxonv in 1485 and in the 16th century it was rebuilt. It has a broadcasting station, (319 M 0 25kW) Pop 619,000

Dresden chinaware was first made in the palace at Dresden in 1709 It is noted for the delicacy of its colouring and its most valuable pieces are small figures of shepherdesses and the mark is a crown and two crossed swords The china has been made since 1710 at

Meissen

The Battle of Dresden was fought Aug 26 and 27 1813 In it Napoleon defeated the Austrians, Russians and Prussians who were attacking the city, then in the possession of the French The Dresden, a German light cruiser was sunk by British cruisers near Juan Fernandez March 14 1915

Dressing Materials used to protect a made of cotton wool, lint and other material usually treated with iodoform, boric acid or another chemical to prevent germ infection In war, wounds are first treated at dressing stations which are established as near the fighting rone as possible

Other forms of dressing are manure applied to land, and the process used to prepare ores before the metal is extracted from them Another kind of dressing is the preparation of

birds etc , for the table

Dressing Table Table for tollet piece of furniture it dates from about 1700 before which time a mirror placed on a chest of drawers served the purpose Early in the 18th century some beautiful pieces were made in walnut and other woods, and these have been extensively copied Later they were rapidly by hand or machinery

designed by Sheraton & Chippendale In some cases a dressing table and secretaire were combined

were combined

Dreyfus Alfred. French soldier Born in Adsace in Oct , 1859, the con of a Jewish manufacturer at Mulhausen, he entered the army In 1894, then a captain on the general staff, he was charged with solling documents of value to the German Govorament He was tried by court-martial, found a stulling and certified and offer and sent into evile or Double Island of guilty and sent into exile on Devil's Island, off the coast of Guiana Later, he was re-tried by court martial at Rennes, and sentenced to prison for ten years. He was, however, par-doned by the president and in 1906 a higher court declared him innocent. He was restored to the army and later made an officer of the Legion of Honour He died July, 1935

Driffield Market town and urban district or from Hull on the LNE Rly, and is an agricultural centre. It is connected by canal with Hull. Pop (1931) 5916

Driffield is called Great Driffield to dis thinguish it from the neighbouring village of

Little Driffield

Drift In geology term applied to the deposits of loose material forming superficial beds of varying thickness Found in Northern Europe, Great Britain and North America, these beds are the result of glacial action and consist of sands gravels and clays with scattered ice-borne boulders. The pebbles and root fragments and also the underlying and rock fragments and also the underlying rocks are scratched and polished by the move ments of ancient glaciers dating from the earlier

part of the Qualernery period

Drifter Small vessel engaged in fishing
with the old of drift nets Nor mally about 100 ft long, they are much used in the herring fisheries During the Great War hundreds of them were engaged in patrolling the narrow seas, maintaining barrages and netting channels for submurines On the Dover Patrol 256 drifters and trawlers did constant duty

Drift nets are fastened to drifters and moved through the waters to catch herring mackerel and other fish that are found in shoals Cork keeps them in position at the top and weights at the bottom Some are 120 yds long

Drill Corruption of drilling, a stout twilled fabric of cotton or linen used for sulting in tropical climates. It is also used for summer clothing for little boys, for corset making and various other purposes. Khaki drill is used for army wear in hot countries.

Drill Exercise to encourage discipline and soldiers at a very early date and by it they were taught to move together at the word of command and in general to act as a body of trained men. In all armies recruits go through a period of drill, and drilling is a recognised part of naval and military routine. There is a regular system of drill for the British Army and there are text books giving details of the various movements

From armies drill was carried into schools and boys were drilled usually by retired soldiers. Later it spread to schools for girls As education became wider drill become marged into physical exercises Swedish drill, as it is called is a system of physical exercises which

has attained much popularity

Drill Tool used for boring holes in metal or other substances. It is rotated It is rotated The ordinary form of drill consists of a short, highly tempored steel rod with specially shaped cutting facets and is used for boring either by percussion or The title of Earl of Drogheda has been held and is used for boring either by percussion or by constant pressure during rotation Rock drills are used for making holes for the insertion of explosives For sinking artesian wells, oil wells, etc , a tubular diamond drill is employed

Drina River of Yngoslavia It rises in the mountains of Montenegro and flows through that country until it joins the Save about 60 m to the west of Belgrade It is 160 m long

Drinkwater John English writer Born, June 1, 1882, the son of an actor, he became a clerk. He soon began to write poetry and his first volume was lesued in 1908 He was the promoter, and for a time, manager of the Repertory Theatre, Birmingham, after which he settled down to a literary life In addition to poetry, Drinkwater has written essays and criticisms He is best known, however, for his plays, Abraham Lincoln, Oliver Cromicell, Mary Stuart and Robert E Lee In 1928 he published a blogmphy of Charles James Fox and in 1930 a book on Pepys He began his autobiography in 1921 and produced with the literary in 1921. 1931 and produced A Man's House in 1934

Dripstone The projecting moulding over an arch or doornay It is also used for the stalagmite or calcareous

deposit formed on the floor of caverns

Driver Samuel Rolles English divine Driver Samuel Rolles English divine and scholar Born at Southampton Oct 2, 1846 he was educated at Winchester and New College, Oxford His life was passed in Oxford, first as tutor at New College and then as Professor of Hebrew and canon of Child Charle House a warmen of the Christ Church He was a member of the company that revised the Old Testament Driver was a great Hebrew scholar and one of the leading exponents of the higher criticism On those subjects he wrote of the Bible much, a notable book being The Introduction to the Literature of the Old Testament He died Feb 26 1914

Driving Guiding or controlling a vehicle on the road At one time it referred almost solely to the guidance of

porses

Another form of driving is controlling a motor-car Before doing this it is necessary to take out a driving licence which costs 5s a year. By the Roads Act of 1930 the Ministry of Transport has power to make prospective drivers has certain tests

In London drivers of taxicabs and coaches must pass an examination before they can obtain a licence to drive. This includes a knowledge of London, its streets and principal buildings as well as the ability to drive. In Great Britain a driver always Leeps to the left of the road, in the United States and in France he keeps to the right Other vehicles should be passed on the right

Drogheda Borough scaport and market free State It stands on the Boyne, 4 m from the sea and 32 from Dublin, on the GN of I Rly. S Lawrence Gate is a massive relic of the city's fortifications and there are ruins of two abboys. There is a good between and

the cit's fortifications and there are ruins of two obboys. There is a good harbour and considerable trade in cattle etc posses through the port. It is also a fishing centre The town is notable for its capture by Cromwell in 1649 when he put its garrison to the sword and its surrender to William III the day following the Battle of the Boyne For long it was one of the most important

by the family of Moore since 1661 The earl's sert is Moore Abbey, Co Kildare His eldest son is called Viscount Moore

Droitwich Borough, watering place cestershire It is 6 m from Worcester and 126 from London and is reached by the GW and LMS Rlys. A small river, the Salwarpe, flows through the town which is linked by canal with the Severn Droitwich is chiefly famous for its brine baths and for its powerful long-wavewirelesstransmitter Pop (1931)4553

Dromedary Name applied to racing breeds of camel, as distinguished from baggage animals. They are tinguished from baggage animals. They are thoroughbreds expressly rulsed for riding purposes, and differ from the heavier breeds as race horses do from dray horses. They are mostly of the one-humped Arabian species, but two-humped Bactrian camels also have breeds of superior speed See CAMEL

Dromore Urban district and market town of Co Down, Northern Ireland It was once the seat of a bishop, but the diocese is now united with Down and Pop 2460 Linen is made here Connor

Drone Name for the male of the honey bee the workers and the queen bee It does not work and is stingless. At the beginning of autumn the workers turn out all the drones from the hive

Dronfield Urban district of Derbyshire on the LMS Rly The chief industry is coal mining Pop (1931) 4520

Dropmore Residence in Buokinghamshire It is 4 m from
Maidenhead, its station being Bourne End,
on the GW Rily It is funous for its gardens
which were laid out by Lord Grenville Later
the estate passed to the Fortescue family
The Dropmore Papers which have been Dropmore Papers, which have been published, deal with events of Grenville's day

Morbid accumulation of watery Dropsy body cavities It arises from weakening of the walls of the minute blood vessels, excessive blood pressure in the veins or a too water consistency of the blood. Beneath the skin it is called ocdema when localised and anasarca In the abdomen it is when videspread in the abdomen it is assites, in the head hydrocephalus. In kidney affections it occurs after rest. In heart disease when videspread after exertion Treatment should attack the cause. In severe accumulations tapping may be required

Dropwort Perennial herb (Spiraca fili-pondula) of the role order It is a native of Europe, N Asia and N Africa and has smooth leaves and an erect stem, with panicles of small flowers, white or rosy outside These distinguish it from the taller willow-leaved dropwort (S salienfelia), a favourite cultivated shrub

The vater dropwort, (Ocnanthe crocata), is a marsh growing umbelliferous herb, resembling celer, but is poisonous

Drought Condition of dryness of an area sufficient irrigation, or other cause Where this condition is of a permanent character, deserts occur, such as the Sahara in Africa

sand, gravel and clay The machines used are known as dredgers and of these there are many types The bucket dredger is a common type and consists of a series of buckets linked together to form a ladder, at the top of which is the receiving hopper

Theodore American writer Dreiser Dreiser Born Aug 27, 1871, in Indiana, be was oducated there In 1692 he joined the staff of a newspaper at St Louis but soon became an editor in New York. In 1907 he was made editor in chiaf of the Butterick Publications In 1900 Dreiser published Publications in 1990 States of the followed novels, short states and essays in quick succession These stories and essays in quick succession. These include The Financier, A Hooser Holiday Twolve Men Accorded and Declarmed, and A Gallery of Women. His best known work is An American Tragedy In A Book about Myself and Dawn he relates his own life story

Dresden City of Germany and the capital of the republic of Saxony It stands on the Elbe, 110 m. from Baxony It stands on the subset, 110 M. Irolin. Brosden is chiefly famous as an art contro. Its unrivalled collection of pictures including the Sistine Madonua, is in the muccum, part of a huge building called the Zwinger. The palace, in which the kings of Saxony lived until 1918 also contains some There is a magnificent era house. The Altmark wonderful treasures theatre and also an opera house. The Altmark is the centre of the old town. Noble bridges cross the Elbe and there are promenades along its banks

Dresden is a great industrial town It is an important railway junction with a great central railway station and there is a good deal of trade along the river. It is an important banking and distributing centre, and there are a number of manufactures Dresden became the capital of Saxony in 1485 and in the 16th century it was rebuilt. It has a broadcasting station, (319 M., 0 25kW.) Pop 619,000

Dresden chinaware was first made in the palace at Dresden in 1709 It is noted for the delicacy of its colouring and its most valuable pieces are small figures of shepherdesses and the mark is a crown and two crossed swords The china has been made since 1710 at

Meissen The Battle of Dresden was fought Aug 26 and 27 1813 In it Napoleon defeated the Austrians, Russians and Prussians who were attacking the city, then in the possession of the French The Dresden a German light cruiser was sunk by British cruisers near Iuan Fernandez March 14, 1915

Dressing Materials used to protect a made of cotton wool, lint and other material usually treated with iodoform, boric acid or another chemical to prevent form infection In war, wounds are first treated at dressing stations which are established as near the fighting zone as possible

Other forms of dressing are manure applied to land, and the process used to prepare ores before the metal is extracted iron them Another kind of dressing is the preparation of

birds, etc for the table

Table for Dressing Table Table for tollet use. As a distinct piece of furniture it dates from about 1700 before which time a mirror placed on a chest Early in the of drawers served the purpose 18th century some beautiful pieces were made in walnut and other woods, and these have been extensively copied Later they were rapidly by hand or machinery

designed by Sheraton & Chippendale In some cases a dressing table and secretaire were combined

Dreyfus Alfred French soldler Born of a Jewish manufacturer at Mulhausen, he on a sevies manufacturer at minimuses, no entered the army. In 1894, then a captain on the general staff, he was charged with selling documents of value to the German Government He was tried by court-mertial, found guilty and sent into evile on Devil's Island, off the coast of Guiana Later, he was re-tried by court martial at Rappas, and sentenced to court martial at Romes and sentenced to prison for ten years. He was, however, pardoned by the president and in 1906 a higher court declared him innocent. He was restored to the army and later made an officer of the Legion of Honour. He died July 1935

Driffield Market town and urban district of Yorkshire (E.R.) It is 20 m from Hull on the LNE Rly, and is an agricultural centre. It is connected by canal with Hull Pop (1931) 5916

with Hull Pop (1931) 5916
Driffield is called Great Driffield to distinguish it from the neighbouring village of Little Driffield

Drift In geology term applied to the superficial beds of varying thickness Found in Northern Europe, Great Britain and North America, these beds are the result of glacial action and consist of sands gravels and clays with scattered ice-borne boulders. The pebbles and protections of the properties of the properties of the properties. and rock fragments and also the underlying rocks are scratched and polished by the move ments of ancient glaciers dating from the carlier part of the Quaternary period

Drifter Small vessel engaged in fishing with the aid of drift nets. Nor mally about 100 ft long, they are much used in the herring fisheries. During the Great War hundreds of them were engaged in patrolling the narrow seas, maintaining barrages and netting channels for submarines On the Dover Patrol 256 drifters and trawlers did constant duty

Drift nets are fastened to drifters and moved through the waters to catch herring mackerel and other fish that are found in shoals Cork keeps them in position at the top and weights at the bottom Some are 120 yds long

Drill Corruption of drilling, a stout twilled fabric of cotton or linen used for sutting in tropical climates It is also used for summer clothing for little boys, for corset making and various other purposes Khalid making and various other purposes Khald drill is used for army wear in hot countries

Drill Exercise to encourage discipline and to maintain health. It began with soldiers at a very early date, and by it they solders at a very carly date, and by it they were taught to move together at the word of command and in general to act as a body of trained men. In all armies recruits go through a period of drill and drilling is a recognised part of naval and military routine. There is a regular system of drill for the British Army and there are text books giving details of the various movements

From armies drill was carried into schools of boys were drilled usually by retired ldiors. Later it spread to schools for girls. soldiers As education became wider drill become merged into physical exercises Swedish drill as it is called is a system of physical exercises which

has attained much popularity

Tool used for boring holes in metal Drill or other substances It is rotated The ordinary

form of drill consists of a short, highly tempored steel rod with specially shaped cutting facets, and is used for boring either by percussion or by constant pressure during rotation Rock drills are used for making holes for the insertion of explosives. For sinking artesian wells, oil wells, etc , a tubular diamond drill is employed

River of Yugoslavia Drina the mountains of Montenegro and flows through that country until it joins the Save, about 60 m to the west of Belgrade It is 160 m long

Drinkwater John writer English son of an actor, he became a clerk He soon became a clerk began to write poetry and his first volume was issued in 1908. He was the promoter, and, He was the promoter, and, for a time, manager of the Repertory Theatre, Birmingham, after which he settled down to a literary life In addition to poetry, Drink water has written essays and criticisms. He is best known, however, for his plays Abraham Lincoln, Oliver Cromwell, Mary Stuart and Robert E Lee In 1928 he published a biograph of Charles James Fox and in 1930 a book on Pepys He began his autobiography in 1931 and produced A Man's House in 1934 Dripstone The projecting moulding over an arch or doorway It is also used for the stalagmite or calcareous

deposit formed on the floor of caverns Driver Samuel Rolles English divine and scholar Born at Southampton, Oct 2, 1846, he was educated at Winchester and New College, Oxford His life was passed in Oxford, first as tutor at New College and then as Professor of Hebrew and canon of Christ Church Howers Christ Church Ho was a member of the company that revised the Old Testament Driver was a great Hebrew scholar and one of the leading exponents of the higher criticism of the Bible On those subjects he wrote much, a notable book being The Introduction to the Literature of the Old Testament He died

Feb 26 1914. Driving Guiding or controlling a vehicle on the road At one time it referred almost solely to the guidance of

horses

Another form of driving is controlling a motor-car Before doing this it is necessary to take out a driving licence which costs 5s a year. By the Roads Act of 1930 the Ministry of Transport has power to make prospective

drivers pass certain tests

In London drivers of taxicabs and conches must pass an examination before they can obtain a becace to drive This includes a knowledge of London, its streets and principal buildings as well as the ability to drive In Great Britain a driver alwars keeps to the left of the road, in the United States and in France he keeps to the right Other vehicles should be passed on the right

Drogheda Borough scaport and market town of Co Louth, Irish Free State It stands on the Boyne, 4m from the ca and 32 from Dublin, on the G N. of I Rly. S Lawrence Gate is a massive relic of the city's fortifications and there are ruins of two abbays. There is a good harbour and considerable trade in cattle etc., passes through

the port It is also a fishing centre

The town is notable for its capture by
Cromwell in 1649 when he put its gurison to
the sword, and its surrender to William III
the day following the Battle of the Boyne
For long it was one of the most important For long it was one of the most important

places in the country and the residence of the archbishops of Armagh Pop 12,700

The title of Earl of Drogheda has been held the family of Moore since 1661 The earl's by the family of Moore since 1661 The earl's seat is Moore Abbey, Co Kildare His eldest son is called Viscount Moore

Droitwich Borough, watering place and market town of Worcestershire It is 6 m from Worcester and 126 from London and is reached by the G W and LMS Plys. A small river, the Salwarpe, flows through the town which is linked by canal with the Severn Droitwich is chiefly famous for its brine baths and for its powerful long-wave wireless transmitter Pop (1931)4553

Dromedary Name applied to racing the toroughbreds expressly raised for riding purposes, and differ from the heavier breeds as race horses do from dray horses. They are race horses do from dray horses. They are mostly of the one-humped Arabian species, but two-humped Bactrian camels also have breeds of superior speed. See CAMEL.

Dromore Urban district and market town of Co Down, Northern Ireland It was once the seat of a bishop, but the diocese is now united with Down and Connor Linen is made here Pop 2460

Drone Name for the male of the honey bec the workers and the queen bee It does not work and is stingless. At the beginning of autumn the workers turn out all the drones from the hive

Dronfield Urban district of Derbyshire It is 6 m from Chesterfield, on the LMS Rly The chief industry is coal mining Pop (1931) 4520

Dropmore Residence in Buckingham-Maidenhead, its station being Bourne End, on the GW Ply It is famous for its gardens which were laid out by Lord Grenville Later the estate passed to the Fortescue family The Dropmore Papers, which have been published deal with events of Grenville's dear published, deal with events of Grenville's day

Morbid accumulation of watery Dropsy fluid beneath the skin or in body cavities. It arises from weakening of the walls of the minute blood vessels, excessive blood pressure in the veins, or a too waterveonsistency of the blood. Beneath the skin it is called ocdema when localised and anasarea In the abdomen it is when widespread asciles in the head hydrocephalus. In ladney affections it occurs after rest in heart d'isase-Treatment should attack the after exertion cause In severe accumulations tapping may be required

Dropwort Perennial herb (Spitara fili-It is a native of Europe, N Asia and h Africa and has smooth leaves and an erect stem, with panicles of small flowers, white arross outside. These distinguish it from the tiller willow-leaved dropwort (S salunfilm), a favourite cultivated shrub

The nater dropwort, [Oc-anthe crocala), is a march growing umbelificing bert, resem-bling celery, but is poisonous

Drought Condition of drives of an area due to a lack of rainfall, insufficient irrigation, or other ruse. Where this condition is of a permuent character, deserts occur, such as the same in Africa.

and the Gobi in Asia, although many such areas were formerly fertile tracts. Australia is subject to periodical drought, the crops suffering In consequence, but this is being overcome by the sinking of artesian wells, the barrage system of conserving water, and irrigation

Drowning Submersion in water or asphyxia follows a stoppage of the air supply, which is sometimes accelerated by heart failure from shock or syncope The face is pale or slightly livid, with fine froth about the mouth and nostrils

The Royal Life Saving Society promulgates approved methods for release, rescue and resuscitation by artificial respiration. The Royal Humane Society awards medals to

royal number Society awards medals to persons who rescue others from drowning Tryatment —Artificial respiration should be tried perseveringly in all cases of apparent drowning, as it is frequently successful even after prolonged immersion. Send for a doctor and proceed with artificial respiration at once as follows

Lay the patient face downwards with arms extended and face turned to one side, kneel across his body with your hands flat over the lowest ribs, then throw the weight of your body slowly, removing the pressure without removing your hand Repeat the movement twelve times a minute without pause In severe cases two hours' work or more may be necessary

During this procedure an assistant should rub the lower limbs vigorously towards the heart to help to restore efrculation and as soon as the patient begins to breathe again he must be kept warm with coverings and hot water bottles

Droylsden Urban district of Lanca shire It is 5 m from Man chester, on the L M S Rly It is also connected by canal with Manchester The Industries are associated with the cotton trade also chemical works Pop 14,250 There are

Drug Substance of organic or inorganic of some curative properties it possesses Many drugs are derived from plants and may represent the entire dried plant, others the dried leaves, roots, bark flowers or seeds Examples of these are chiretta (plant), senna (leaves) rhubarb (root), cinchona (bark), can nabis (flowers), nux vomica (seeds) Many oxtractives, alkaloids and oils from plants are used as drugs, such as cascara, croton oil strychnine, morphic etc Inorganic drugs are represented by lodine and compounds of arsenic, lead, zinc and other metals while a large number of synthetic drugs are in common

In Great Britain certain drugs such as cocaine and others classed as dangerous, can only be sold under strict supervision. Acts passed in 1920 and 1923 aimed at controlling the trade in these drugs and the Home Office has an inspector to watch it For dealing in these drugs without authority heavy fines and

imprisonment can be imposed

Druggist Term applied to one who such a person must be a duly registered pharmaceutical chemist, the term chemist and drugges is generally used. Only those persons who have passed the examinations of the Pharmaceutical Society are entitled to be registered. Stringent regulations are made with regard to the sale of poisonous drugs. They must be labelled poison and the date

and particulars of the sale must be entered in a special register

Druid Priest of the Celts of Gaul, Britain and Ireland The chief Druid was elected by a majority of votes from the body of priests and retained his office for life ordinary people were completely under ordinary people were completely under the control of the Druids, who looked after their morals and religion and actod as judges Tho oak was regarded by them as the supreme god and oak groves were their places of wor-ship, where they offered human sacrifice

One of the largest of the friendly societies is known as the Ancient Order of Druids It has many members in the United States as well as in Great Britain

Drum Percussion instrument of music There are several kinds One is a single skin stretched on a frame open at the bottom e g, the tambourine Another consists of two skins enclosing a cylinder eq, the side drum A third is a single skin stretched on a closed frame  $e_y$ , tympani or kettle drums Kettle drums are hemispheres of copper or

brass, over which the head of parchment skin is stretched and secured by screws the tighten ing or loosening of which raises or lowers the pitch of the sound Kettle drums alone emit a definite musical note, other drums merely a

Drumclog Moorland hamlet in Lanark shire, It is about 21 m from Loudon Hill on the Ayrshire border Here, on Sunday, June 1st, 1679, a small band of Covenanters gained a victory over Viscount Dundee (Graham of Claverhouse) and his troops

Drumlanrig Castle in Dumirlesshire, built about 1700 A seat of the Duke of Buccleuch, it stands on the Nith, 17 m from Dumfries

Drummond Scottish family It is now represented by the Earl of Ancaster who owns Drummond Castle, in

Perthshire It is famous for its gardens
One member of the Drummond family
founded, in 1712, the bank now at 49 Charlog Cross Road, London, still known as Drummonds In this Henry Drummond (1786 1863) was a partner He was an M P for many years, but is best known as an Irvingite He built the Catholic Apostolic Church at Albury, Surrey His daughter married the Duke of Northumber land and inherited Albury Park. He died Feb 20, 1860 The bank is now a branch of the Royal Bank of Scotland

Drummond Henry Scottish scientist Born at Stirling, Aug 17, 1851, he died March 11, 1897 He was educated at Edinburgh and Tübingen where he studied science Trained for the ministry at New College, Edinburgh he abandoned that career, not, however, on grounds of faith for he was associated with the expension for he was associated with the evangelistic work of Moody and Sankey In 1877 he was work of Moody and Sankev In 1877 he was made lecturer in natural science in the Free Church College, Glasgow, and in 1884 he became professor While there he wrote Natural Law in the Spiritual World, an attempt to reconcile science and religion which had an extra ordinary success and made its author known It was followed by The Isrent of Man Mean while Drummond had travelled much in Africa, Asia and America which led to the writing of Tropical Africa and other books His addresses on a ligion in London and elsewhere, addresses on religion in London and elsewhere, notably The Greatest Thing in the World, were very popular

Drummond Sir James Eric British diplomatist Second son of the Earl of Perth, he was born Aug 17, 1876 Educated at Eton, he entered the diplomatic service in 1906 In 1916 he was knighted and in 1919 he was appointed the first secretary general of the League of Nations In 1933 he was appointed Ambassador to Rome

Drummond William Scottish poet, called Drummond of Haw-thornden Born at Hawthornden, near Edinburgh, Dec. 13, 1585, he studied law in Edinburgh and Paris His life, however, was spont on his estate at Hawthornden, where he wrote a number of poems, described as "amorous, funercal, divine, pastoral, in sonnets, songs, sevtains, madrigals" In prose he wrote A Cypress Grove Among his friends were Ben Jonson and Montrose A staunch royalist, he died Dec 4, 1649

Drummondville Town of Quebec, Francis River, 62 m from Montreal Pop

Drunkenness Condition of being in-toxicated In English law, merely to be drunk is not an offence It 19, however, an offence to be drunk and disorderly, or to be drunk on a highway or in a public place, which includes licensed premises The usual penalty is a small fine or imprisonment. It is a more serious offence to be drunk while in charge of a motor car or other vehicle, or while in possession of loaded firearms
Drunkenness is not a defence to a criminal
charge, save in exceptional cases

Drury Edward Alfred Briscoe English to school at Oxford and then studied art Later in 1885 exhibited "The Triumph of Silenus"
During the next 40 years he turned out an enormous amount of work, including decorative pleces statues and war memorials, some being in bronze In 1913 he was elected RA, having been an ARA since 1900

Drury Lane Thoroughfare of London It extends from Aldwich to Broad St, St Giles', and High Holborn. It is called after Drury Place, a 15th century mansion of the Drury family In this house Essex planned the rebellion of 1600 and on its site, in 1805, Astley built the Olympia Pavilion Olympia Pavilion

Drury Lane, with its theatre, has many historic connections From here a serving man first gave notice of the outbreak of the placue in 1865 Nell Gwynn was born in Drury in 1665 Aell Gwynn was born in Drury Court, and piled her trade by Drury Lane Theatre Lamb, Donne, Campbell, Elliston all frequented the district which, in the 18th century, sank into ill repute

The theatre one of the most famous in London, dates from 1661 In 1672, and again in 1809, it was burned down The present building was expend in 1812 and is famous for

building was opened in 1812 and is famous for the annual pantomimes held here under the inanagement of Sir Augustus Harris and Arthur Collins In 1917 it was used by Sir Thomas Beach of Sir Augustus Harris and Arthur Collins In 1917 it was used by Sir Thomas Beecham for opera

Druses Syrian people professing an esoteric unitarianism Numbering 100,000, more or less, they inhabit three isolated regions Trinsjordania, Jebel Hauran or Jebel Druz, moisture for the following year's crop that them and Anti-Lebanon and Hermon They hold that God appeared in successive incarnations culminating in the sixth Fatimite Try-Point Method of engraving on metal It is allied to etching

caliph, Hakim (996-1021), whose claims were advocated by one, Darazi, whence their name

Drusilla Livia Roman lady The wife of Tiberius Claudius Nero, by him she had a son, Tiberius, the future emperor and another son, Noro Claudius Drusus She then became the wife of Augustus, who have higher husband divorce her Their union made her husband divorce her Their union was childless, but Drusilla retained his affection until his death For some time after Tiberius became emperor, she had very great influence, but they soon quarrelled She died in a D 29

Drusus Mero Claudius Roman soldier He was a son of Drusilla by her first husband As a general he won successes in Germany in the reign of his stepfather, Augustus He was the father of the Emperor Claudius

Earlier bearers of this name were two men called Marcus Livius Drusus The father was tribune in 122 B c and the son in 91 B c The Emperor Tiberius had a son named Drusus Dryad Nymph of Greek mythology They were tutelary minor deities of trees in which they lived, perishing at their death or destruction

Dryburgh Ruined abbey of Scotland It is in Berwickshire on the Tweed, 4 m from Melrose It was destroyed in the 16th century, but some beautiful ruins remain, including an aisle of the church in which Sir Walter Scott, his son in-law Lockhart and Earl Haig are buried The ruins are national property.

Dryden John English poet Born at Aldwinkle, Northamptonshire, Aug 9, 1631, he was educated at Westminster School and Trinity College, Cambridge He began his literary career by writing plays, but was more successful with his poems. The first was more successful with his poems. The first of these appeared in 1659 and for the rest of his days Dryden was busy with his pen Unlike many other writers, he was in comfortable circumstances and his private life, mainly passed in London, was uneventful. In 1670 he was appointed poet laureate, but he lost that position in 1688. He married the elder daughter of the Earl of Berkshire and before his death became a Roman Catholic. He died May 1, 1700, and was buried in Westminster Abbey. Abbey

Abbey
Dryden's plays are nearly all forgotten,
Marriage à la Mode and All for Love being
perhaps, exceptions, but it is otherwise with
his poems The chief of these are his satires
notably Absalom and Achitophel, an attack
on Shaftesbury Other poems are Annus
Mirabilis, written on the year 1660, The
Hind and the Panther, written to defend the
Church of Rome, The Ode for S. Occilia',
Day and Alexander's Feast He translated
Virgil and Juvenal In his own line, that of a
satirist in poetry, Dryden is unrivelled

Dry Farming Method of farming of the United States, South Africa and other of the United States, South Africa and other countries where the rainfall is inadequate 1 consists essentially of the conservation of rain water in the ground by tillage, thus keeping the soil loose and thereby checking evaporation Part of the land may be in cultivation, while the rest is kept in a loose condition to retain moisture for the following year's crop This method is adopted for growing hard or macaroni wheats in America

and used for reproduction of designs or draw ings. As in line engraving the lines are cut ings. As in line engraving the lines are cutinto the copper by means of a pointed steel
tool without the aid of an acid as in etching,
where the design is soratched through the
superficial film and hollowed out by chemical
action. The burr, or raised edge, of metal,
formed by the engraving tool, gives the soft
effect so characteristic of dry point engravings

Dryptosaur Genus of extinct land order (dryptosaurus or laclurs) A sharp toethed, carnivorous creature, it was strong active and predaceous, walking on its hind legs like a kangaroo. Closely allied to, and perhaps identical with, English megalosaurs, it inhabited New Jersey, Montana and other N American regions in Cretaceous times It

was about 20 ft long.

Dry Rot Condition of decay in timber causing the wood to become a dry brittle mass. The commonest fungus causing dry rot is merulus lachrymans, which attacks deal timbers in damp houses forming white felted masses spreading over boards, beams, and even masonry, and giving rise to a peculiar and disagreeable odour To prevent dry rot occurring good ventilation and the use of well seasoned timber is necessary

Drysalter One who deals in preserved pickles, etc He also deals in heavy chemicals, such as sulphur, soda, salt, borax, salammoniae and commercial acids crude drugs, such as and commercial acids crude drugs, such as medicinal salts, senna, rhubarb, etc., gums and resins including shellac, gum arable, mastic and turpentine oils such as the various essential oils, linseed, rape and cotton seed oils, paraffin etc.

Duala Town of French Cameroons The stands on the Cameroons River, about 18 m from its mouth It consists of a European quarter, a patity quarter and the port guarter.

quarter, a native quarter and the port quarter It is an important railway junction and has a large export trade Duala was captured from Germany by a British and French force in Sept 1914

Dualism System of philosophy that seeks to explain the world by the assumption that there are in it two independent The dualist may and absolute elements believe in the entire separation of spirit and matter or in permanent opposition of good and evil. Dualism is opposed to both idealism and materialism. The philosophy of Benjamin Kidd is an example of dualism.

Dual Control is the control of a country's affairs by two outside powers For some years after 1882 Egypt war under the dual control of Britain and France

Dual Monarchy Term used for the Fmpire of Aus. tra-Hungary during the period 1867 1919

Du Barry Marie Jeanne Bécu French adventuress Born Aug 19, 1748, she married Jean, Comte du Barry to act as his gambling decoy, and in 1769 became ristress of Louis XV She was banished in 1774, and guillotined Dec 7, 1793

Dubawnt River and lare of Canada of Saskatchawar and Idag meinly rooth with

of Saskatchewan and flows mainly north until it falls into Chesterfield Inlet on Hudson Bay It passes through the lake which covers about 1050 sq m The chief tributary is the Thelon

Its length is about 600 miles

Dublin County of the Irish Free State and has a coastline of 72 m. on the Irish Sca, covers 354 sq m and is served by the GS and GN of L Rlys Dublin is the chief fown Other places are Balbriggan, Skorries, Kings town (Dun Laoghaire) and Howth The county includes Lambay and other islands The soil is fertile although there are mountains in the south The soil is

Dublin Bay is an opening of the Irish Sea It extends from Howth to Kingstown and the

Liffey flows into it.

Dublin Capital and seaport of the Irish mouth of the Liffey on Dublin Bay and is 61 m. from Holyhead and 6 from Kingstown (now known as Dun Laoghaire and pronounced as though written Dunicary) its outport

Dublin has a herbour along the river and Dublin has a harbour along the river and a considerable trade with British ports in cattle and other commodities. The chief industry is the manufacture of stout but there are many others, including biscuits and whisky It is also a banking and distributing centre and the headquarters of the G. S. Riys. The G.N. (Ireland) Rly also serves the city, which is connected with the interior by the Grand and

Royal Canals
The buildings include the castle, long the residence of the lord Heutenant, the mansion house, the art galleries, the national museum. the city hall, the fine cathedral of S Patrick and Christ Church The Four Courts is where the courts of law sit, the meeting place of the old Irish Parliament on College Green is now occupied by the Bank of Iroland Charle-ville House a beautiful specimen of 18th century architecture, has been bought for an art gallery
Phoenix Park is a magnificent open space

and contains the roological garden O'Connell and contains the Toological garden O'Connects, formerly Sackville St is the chief thorough fare and O Connell Bridge one of the many bridges across the Lifley Butt Bridge was open ed in 1931 A circular road runs round the city At Ball's Bridge the annual horse show city is held

Dublin is also an educational, literary, and Dablin is also an educational, literary, and artistic centre. In it are the historic university called Trinity College with fine buildings on College Green, and University College belong ing to the newer national university. Here are the headquarters of the Royal Irish Academy and the Royal Dublin Society. The Abbey Theatre is notable. It has a broadcasting stution (413 M, 12 kW). Pop. 40.,126

The Royal Dublin Fusiliers was the name of a regiment of the British Army. It was

a regiment of the British Army It was formed in 1881 by a union of the 101st and 102nd regiments of the line and was disbanded in 1922 It had a brilliant record of service

in South Africa and the Great War

Dubois Guillaume French cardinal and Born Sept 6, 1856, the son of an anotherary, he became a mon-Having gone to Parls, he was selected as tutor to Philip, afterwards the Regent Orleans, over waom he obtained great influence He became the secretary to the Duke, who on becoming regent made Dubois his chief adviser. For eight years he was responsible for the affairs of France He pursued a policy of peace badly needed after the exhausting wars of Louis XIV, and, forsaking the traditional friendship with Spain made an alliance with Britain and Holland Having been elected Archbishop of Cambrai, he was created a cardinal in 1721 He died Aug 10, 1723

Ducat Mediaeval coin, generally of gold First minted about 11#0 by Roger II of Sicily for his duchy, it was therefore called ducains. Adopted by Florence in 1252, and Venice in 1283, which afterwards called it the sequin, it was issued in other states and survived in Austria-Hungary down to 1914 George I and III. issued Hanoverian ducats.

Duck Aquatic bird of the family Ana-it includes all birds of that family other than swans and geese mule is called the drake, and in one species the mallard There are 40 genera and 160 species of freshwater ducks found all over the species of resolvater ducks found in over the world All British domesticated breeds, including the Avlesbury, are descended from the common wild duck Flat-billed and short-legged, usually with three front toes completely webbed, they include gadwalls, shovellers, widecons, pintails, sheldrakes, shovellers, widecons, pintails, sheldrakes, teel and mandagin ducks. teal and mandarin ducks Sea ducks or diving ducks include scaups, pochards, canvas-backed and elder ducks. The whistling teal are tree ducks

Duck shorting is practised, especially in the East Anglian Broads and the inlets of the east coast of England, either from punts with fixed or hand-carried guns, or afoot from the sides of streams, sometimes with decors

Duckbill Egg-laving mammal thorhunchus anatinus) Peculiar to Australia and Tasmania, it is also called the duck-billed platy pus With toothless, the duck-billed platt pus With toothless, horny, duck-like beak, inconspicuous cyes and glossy dark-brown fur, it burrows in river lanks and stores its food, which consists of inscess, molluces and worms, in the pouches The cars have white flexible of its checks shells

Ducking Stool Punitive instrument for the public correction of scolds. The scold was fastened in a chair so fixed to a beam that it could be protected. jected over water and roised and lowered at will The ducking was proportionate to the scold's shrewishness The last recorded case of ducking in England occurred at Leominster in 1809

Duckweed Order of minute, annual, floating, green, scale like, flowering plants. They are allied to the arum order and grow in all standing waters Eaton by ducks and geese, they comprise oval structures called fronds with or without thread like roots. In Britain they rarely develop their simple flowers, being usually propagated by budding or by bulbils, which hibernate in the autumn

Du Cros, William Harvey. British manufacturer Born June, 19, 1846, in Dublin, he belonged to a Huguenot family. He became a doctor, but soon left William that profession to become associated with the making of tyres by the Dunlop process. This led to his connection with other branches of the motor industry in which he was a leading figure. He was M.P. for Hastings, 1900 08, and died Dec. 21, 1915. His son, Arthur Philip Du Cros, succeeded him as M.P. for Hastings, and in 1916 was made a baronet

Ductility Property in many metals of by a tensile stress or of being drawn into wire Ductility is influenced largely by the tenacity of the metal It is associated with malleabillity, but the most malicable metals are not necessarily the most duetile. The commoner

motals, arranged in their other of discountries, are gold, silver, platinum, iron, copper, aluminum, zinc, tin and lead Gold is so ductile that one grain in weight can be drawn out

## Ductless Glands See GLAND

Dudley County borough of Worcester-ham and 121 from London, in the centre of the Black Country, and is served by the L M.S and G W Rlys There are ruins of the castle, these and the grounds are now public property The industries are connected with the iron and steel trudes, being chiefly engineering works and iron and brass foundries. Motor cars and cycles are also made here. Pop. 41021, 70, 570. (1931) 59,579.

Dudley Earl of English title held since 1860 by the family of Ward Earlier a famous family had taken its name from Dudley To this belonged Edmund Dudley the exteriorate number of Henry VII, who was put to death in 1510, and Robert Dudley, Earl of Leicester, and several who bere the title of Baron Dudley

bore the title of Baron Dudler

When in 1643 the last Baron Dudley died his estates passed by marriage to the Ward family The earliest of the Wards was a goldsmith, Humble Ward In 1763 one of his descendants was made Viscount Dudley John William Ward, the 4th viscount, was Foreign Secretary, 1827-28, and was made Earl of Dudley in 1827 The title became extinct in 1833, but in 1860 it was given to William Ward, another descendant of Humble Ward His wife, Georgiana, was a promuent social figure. William Humble Ward, the 2nd earl, was Parliamentary Secretary to the Board of Trade, 1895-1902, Lord-Licutenant of Ireland, 1902 06, and Governor General of Australia, 1908-11 Ho died June 29, 1932 Willey Court, now sold, was the earl's chief seat, and his estates include coal mines in Worcestershire and Staffordshire His eldest sen is called Viscount Ednam, and his seat is Himley Hall, Staffordshire

Duel Single combat. It was usually with deadly weapons under conventional rules, to settle a personal quarrel, or decide

point of honour.

The first duels were fought with swords or rapiers, but later the pistol became the favourite weapon They were very common in France, Italy and other countries during the france, italy and other countries during the 16th and 17th centuries and thousands of men vere killed in them, but efforts to stop them failed Duels are occasionally fought to-day in those countries, as they are in E Europe and S America but rarely with Intal results However, in 1930 a duel with revolvers hd to the death of a former president of Paraguay as well as of his opponent. In Germany duels among army officers were fairly common before the Great War, and duels of students are a feature of university life there

In England, as elsewhere, duelling was a development of the old combats of the kuights It began in the 16th century, and ducis were fairly frequent in the 17th and 18th centuries Many prominent men went out to fight, including the younger Pitt, the dukes of York Many and Wellington, Canning and Castlereagh The Irish gentry were noted for their pro-pensity to light duels. In the case of a fatal termination the survivor was guilty of murder.

and a duellist was executed in 1808 duels were those between Lord Byron and Mr Chaworth, between Lord Mohun and the Duke of Hamilton, described in Esmond, and the one in which Asron Burr killed Alex ander Hamilton The last duel in England was fought in 1843

Dufferin and Ava Frederick Temple Hamilton-Temple Blackwood was born in Florence, June, 21, 1826 His father was Baron Dufferin and his mother a grand daughter of R. B Sheridan, she was known for her songs, especially The Emigrant's Farevell He became baron in 1841, and, having passed through Eton and Christ Church, Oxford, entered public life He held positions in the Liberal ministry in 1864 66, and in 1872, having just been made an earl, he was appointed Governor-General of Canada From 1884 88 he was Viceroy of India, and he was Ambassador in Rome, 1888 91, and

From 1884 88 he was Vicercy of India, and he was Ambassador in Rome, 1888 91, and in Paris, 1892 96 In his later years he was associated with Whitaker Wright's companies, a proceeding which involved him in consider able loss He died Feb 12, 1902, at the family seat, Clandoboyo, Co Down In 1888 Dufferin was made a marquess His eldest son, the Earl of Ava, was killed in S Africa in 1902 The title passed, there fore, to a vounger son, Terence, who became the 2nd marquess He was succeeded in 1918 by a brother, Frederick, who became the 3rd marquess He was made speaker of the Senate of N Ireland in 1921, and in 1930 was killed whilst flying from France

of N Ireland in 1921, and in 1930 was killed whilst flying from France

Dugdale Sir William English scholar A member of a Warwickshire family of some note, he was born Sept 12, 1605 In 1638 he was given an official appointment in the Office of Heralds, and in 1677 he was made Garter King at Arms Knighted in 1677, he died Feb, 10, 1686 Dugdale gave his life to the study of the past, and his works still have value The chief are Antiquaties of Parwickshire, Monasticon Anglicanum, an account of the religious houses in England, and The Baronage of England

Dugong (Halloore) Genus of aquatic mammals found in the Indian Ocean and along the coasts of Australia. The dugong is from 7 to 9 ft long with flippers and a tail resembling that of the whale. It is allied to the manuates, with which it con etitutes the mammalian order Sirenia, or sea cows. The appearance of the dugong, which raises its head and body from the water while supporting its young, is supposed to have originated the stories of mermaids.

Duisburg Town and river port of Germany It stands on the Rhine, near where that river is joined by the Ruhr It is one of Germany's great industrial centres, and said to be the largest river port in the world Pop 421,217

Duke English title A variant of the Latin dux, the word was first given to a military leader Later it was used an Germany for the ruler of a large district, uch as Swabla and Franconia, and was introduced to the control of the ruler of the duced into Franco and England In England, Idward, the Black Prince was made a duke in 1337 The first Scottish duke dates from 1398

Duke is the highest rank in the British peerage, and the coronet contains eight straw lorry leaves The younger sons of the sove releaves The younger sons of the sove relega are usually made dules The Duke of Dulverton fishing and hunting centre.

Notable Norfolk is the premier duke of England, and the Duke of Hamilton the premier duke of and the Scotland A duke's daughter and his younger sons bear the courtesy title of lady or lord led Alex England duess The duke and duchess are addressed as "your Grace," and occasionally a lady is a duches in her own right, the Duchess of Fife duchess in her own right, the Duchess of Fife being an example

being an example

Dukeries District in the NW of
the existing part of Sherwood Forest, and
covers about 100 sq m It stretches from near
Mansfield almost to Worksop Edwinstone
is its centre, and it is crossed by the LNE
Rly Coal mines have been opened in the
district but much of it is still beautiful woodland The name is due to the fact that at
one time four dukes lived here The Duke of
Kingston was at Thoresby, now the residence Kingston was at Thoresby, now the residence of Earl Manvers, the Duke of Norfolk was at Worksop, Clumber is still the seat of the Duke of Newsatle, and Welbeck of the Duke of Portland

Borough of Cheshire Dukinfield Borough of Cheshire It from Manchester Hero are cotton mills engineering works and coal mines Pop (1931) 19,309

Dulac at Toulouse in 1882 he studied art in Paris under Laurens, and in 1905 settled in London where he has achieved success by his paintings and skill in illustrating and caricature. His exhibition in 1907 of water colours on subjects from The Arabian Nights Among the works he has illustrated are Shakespeare's Tempest, Andersen's Farry Tales, and books of a similar character

Dulcimer Musical instrument. Of Eastern origin and great anti quity, it was possibly brought to Europe by Crusaders It consists of a trapeze shaped sounding board over which are stretched metal strings These are struck by a pair of leather strings These are struck by a pair of leather headed hammers with flexible stems Heben streit's pantaleon, an enormous dulcimer perfected in 1705, directly influenced piano forte making

Dulc1n minute white needles It is soluble in water, alcohol and ether, and is 200 times sweeter than sugar It is said to be absolutely harmless to man and animals and has the advantage over saccharine in that it has no bitter aftertaste and does not mask flavours

Dulse Fleshy seaweed of the florideous (rhodymenia palmata) It has purplish red fronds irregularly cleft or otherwise divided, and serves in parts of Scotland, Ireland, Iceland and eisewhere as a food relish, either stewed or dried, and chewed instead of tobacco

Duluth City and port of Minnesota, county It stands at the western end of Lake Superior, and is an important railway terminus There are iron and steel works, flour mills and other industries, but it is chiefly a shipping centre It has a fine har bour and an enormous quantity of wheat is shipped to be carried down the Great Lakes and along the St Lawrence Pop, (1930) 101,463

It stands on the Barle, 20 m from Taunton, on the GW Rly Pop, 1500

Dulwich Suburb of London It is mainly in the borough of Camberwell to the SE of the city, and on the SRIv which has several stations here Apleasant residential area its oldest part is still known as Dulwich Village At one time it possessed a spa

In Dulwich is the large public school called Dulwich College This was founded by Edward Alleyn, the actor, in 1619, and has a fine range of buildings with room for about 700 boys surrounded by extensive grounds The old buildings of the college still stand In 1857 another school called Alleyn's School was

established here

The picture gallery, founded in 1807, contains some very fine pictures by the Dutch masters, as well as by Gainsborough, Reynolds

and others

Duma Name of a representative body in Russia. It was set up in 1905, but disappeared towards the end of the Great War It consisted of 442 members elected for five years. Election was indirect. Delegates were sent from the different towns and districts to a general assembly, which chose the members of the Duma

Dumas Alexandre French novelist Born July, 24, 1802, his full name was Alexandre Davy de la Pail leterie, his father being an illegitimate son of a marquis of that family His grandmother was a negress named Dumas He left his home at Villers Cotterets about 1823 to be come a clerk in Parls, where he soon entered upon a literary life He found time also to fight for Garibaldi in Italy, to live magnificently, spending freely the huge sums he earned, to have matrimonial and other adventures and to mix in politics He died at Dieppe, Dec. 5, 1870

Dumas was responsible for over 1000 books, on a great variety of subjects Many of these were written by collaborators and assistants, and many more were accepted and signed by him without any share whatever in their authorship The plays, however, with which he began his literary career and the books on his early travels, are undoubtedly his own, except in those plays where collaboration is openly acknowledged The plays include Henry III and his Court, which first made him famous in 1829 His sketches include books on travels in Switzerland, Russia, Italy and elsewhere The reputation of Dumas, however, rests upon his historical romances a field in which he is without a rival They attained immense popularity and have been translated into English and other languages. The chief of them are the trilogy, to give them their English titles, The Three Muskcheers, Twenty I cars After, and The Vicomte de Bragelonne. The Count of Monte Cristo, Chicot the Jester, The Black Tulip and Queen Mayaret may be mentioned, but there are many others He also wrote Memoires in ten volumes, but his chief title to fame, in England at least, is as the creator of Porthos, Athos, Aramis and D'Artagnan

Dumas Alexandre French writer head have a natural son of Alexandre Dumas pure whose name he took on being made legitimate He made his reputation with a novel La Dame aux Camelias, and wrote others including L'Affaire

Clémenceau, but it is as a dramatist that his name endures La Dame, a great success when it was adapted for the stage, was followed by La Question d'Argent, Une Visite de Noces, Denise and a number of others, malniv problem plays He also wrote essays and helped George Sand to prepare her work for the stage He was elected to the Academy in 1874 and died Nov 27, 1895

Du Maurier George Louis Palmella Busson British artist and author Born in Parls, March 6, 1834, his grandparents were French refugees domiciled in Encland during the French Revolution At the age of seventeen he went to London and studied chemistry at University College, but later became an art student in Parls After further studies in Antwerp and Düsseldorf, he returned to England where his artistic reputation was rapidly established He contributed illustrations to many publications including Once a Week, The Cornhull and Punch In 1865 he became a member of the staff of Punch, and for years his pictorial satires of social life were a feature in its pages Owing to failing evesight, in later years he took to writing, his first novel, Peter Ibbetson, appearing in Harper's Magazine in 1891, with his own Illustrations This was followed by Trilby, 1904, which attained instant popularity and was eventually dramatised The Martian his third novel, was published after his death He died in London, Oct 6, 1896

Du Maurier Sir Gerald actor A son of George Du Maurier, he was born in London, March 26, 1873, and educated at Harrow He made his first appearance on the stage in 1894, and soon won a reputation In 1910 he became manager of Wyndham's Theatre, London In 1922 he was knighted His many successes include Captain Hook, in Peter Pan, and the part of Bulldog Drummond on the stage and in a talking film He died in April, 1934

Du Maurier's elder brother, Gar, wrote a popular play, The Englishman's Home. He was killed in action, March 11, 1915

Dumbarton Burgh, seaport and market town of Dumbartonshire, also the county town It is 15 m from Glasgow on the LMS and LNE Rlys The River Leven flows through it on its way to the Civde, on one side is the town proper and on the other the suburb of Bridgend A castle stands on the famous Rock of Dumbarton There are shipbuilding yards and engineering works and also some shipping Pop (1931) 21,546

Dumbartonshire County of Scotof the country, it has a coast line on the Firth
of Clyde On its borders are Loch Lomond and
Loch Long Dumbarton is the county town,
other towns are Clydebank, Kirkintilloch and
Helensburgh The Leven and the Kelvin
are the chief rivers. Districts of the county
are the Vale of Leven and the peninsula called
Roseneath. The area is 276 sq m Officially
the name is Dunbartonshire Pop (1931)
147,751

Dumb Bell Term applied to a double-headed weight used in athletic training Dumb bells are made of wood, or iron, and consist of a short bar bearing a rounded knot at each end The name is derived from the fact that the early form was in the shape of a wooden bar with bell-shaped leaden ends

Dumbness Inability to utter articulate sounds It affects approximately one per 1000 in Great Britain, mostly persons deaf from birth or early infancy, but with the voice mechanism unimpaired Sometimes dumbness results from brain defect, concerning authorizes results from oran defect, capecially in children born of the unions of near relatives. It may result, too, from brain disease, as when due to war hysteria or syphilis, disease or paralysis of the vocal cords and the presence of tumours, whose removal may involve inserting an artificial larynx Structural defects, such as tongue tie or enlarged tonsils and adenoids in the throat, may impede proper word formation Lisping, stammering and stuttering are slight forms of dumbness due to the voice mechanism being ineffectively controlled

Dum-Dum Town of India It is in Bengal, 7 m from Cal cutta, and consists of two distinct municipalities, north and south. It is chiefly known because it gives its name to a bullet first made at the government ammunition factory here This was invented for use against the tribes mean of the frontier whose advances could not be men of the frontier whose advances could not be stopped by ordinary bullets. The dum dum bullet has a soft nose which causes it to flatten or expand on entering the body, thus causing a very ugly wound.

Dumfries Royal burgh of Dumfries shire, also the county town It stands on the Nith, 82 m from Glasgow on the L M S Rly On the other side of the river is the suburb of Maxwelltown The manufactures include cloth and hoslery, and there is an agricultural trade and also a trade along the river, which is navigable There is a monument to Robert Burns who lived hore the last few years of his life (1781 96) and who is buried here Pop (1931) 22,795

Dumfriesshire County of Scotland has a coastline on the Solway Firth It covers 1100 sq m, and is chiefly given up to the rearing of cattle and sheep Dumfries is the county town, other places are Moffat, Sanguhar, Annan, Lockerble and Langholm On the southern border is Grotna Green The chief rivers are the Annan the Nith and the Esk, which divide the county into three districts or dales The scenery is very beautiful, especially in the hilly regions of the north and west, and around Lochmaben in the centre. In the east are moors Lochar Moss is a tract of reclaimed land in the south The chief hills are the Lowthers The county has associations with Burns and Cariyle It sends one member to the House of Commons Pop (1931) \$1,960 Pop (1931) 81,060

Dumping Throwing down rubbish in a for piling ammunition into a heap, and for a similar process with other materials
In economics it refers to the action of export

ing goods and selling at prices lower than those provailing for home consumption in order to underent the producer in the importing country and gain control of the market. Legislation acting Junuring has been passed by the United Sates, Great Britain and the Dominions The Sates, Great Britain and the Dominions The Sates around of Industries Act of 1921 was an anti-dumping measure. The value of dumping to an industry is said to be that it enables it to maintain a high level of output, by means of mass production, and thus reduces overhead charges. ing goods and selling at prices lower than those charges.

DUNCOMBE PARK

Dunbar Burgh and watering place of Haddingtonshire (East Lothian)

It is situated at the mouth of the Firth of Forth, 29 m from Edinburgh It is served by the L N E Rly, and with two harbours is a fishing port. The ruins of the castle are of interest as is the tolbooth Pop (1931) 3751.

The Battle of Dunbar was fought between the English and the Scots, Sept., 3, 1650. Cromwell invaded Scotland, and with 16,000 men moved to Dunbar to be in touch with his ships. The Scots, under David Leslie, followed and took up a position on the hills. They moved down to attack the English and the battle began at daybreak. It ended quickly in a decided English victory, about 3000 Scots being killed.

The Scottish title of Earl of Dunbar existed in the 13th century or earlier. It became extinct in 1611.

Dunbar william Scottish poet. Born shire, he became a friar and went about the shire, he became a friar and went about the country preaching Later he entered the king's service and discharged secretarial duties at home and abroad for some years. He was probably killed at Flodden in 1513 Dunbar's most famous poem is The Thistle and the Rose, written to celebrate the marringe of King James IV and Margaret, daughter of Henry VII He also wrote The Dance of the Seven Deadly Sins and other satires, and Lament for the Makares

Dunblane Burgh and market town of Perthshire It is 5 m from Stirling and 41 from Edinburgh, on the L.M.S. Rly The church, once a cathedral, was built in the 12th century and restored in the 19th. The town has a spa, and its chief industry is the woollen manufacture. Here is the Queen Victoria Military School Pop (1931) 2592

Duncan King of the Scots. He is speare's mention of him in *Macbeth* He became king in 1034 and was killed by Macbeth, probably in 1040

ably in 1040

Duncan She was born in San Francisco, May, 27, 1878, and appeared first on the stage in 1890 After a few years she crossed to Europe where she won a great reputation by the originality and grace of her dancing She appeared in London, Paris and other capitals, and opened a training school near Berlin She died as the result of a motor car accident, Sept. 14, 1927, and in 1923 her Autobiography appeared.

Autobiography appeared.

Duncan Viscount. British saflor Adam Duncan was born in Dundee, July 1, 1731, and in 1746 entered the navy. He was in several sea fights and became commander of a ship. In 1782 he was made First Lord of the Admiralty, and in 1795 was appointed to command the fleet in the North Sea. He blockaded the Dutch fleet in the Texel, and met and defeated it off Camperdown, Oct. 11, 1797. He was made a viscount and died Aug. 4, 1804. The Earl of Camperdown is his direct descendant.

Duncansby Head Promontory of Scotland It is in Calthness and is the most northerly point of the country. Off it are three rocks called the Stacks.

Duncombe Park Former residence Feversham. It is just outside Helmsley

Yorkshire The house was built early in the 18th century, and after the Great War became a school for girls. In the grounds are the ruins of Helmsley Castle.

Dundalk Market town and urban district also the county town. It stands on Castletown River, near where it enters Dundalk Bay and is 54 m from Dublin The chief Industry is the milway works, there is also an agricultural trade Pop 14 000

Dundalk Bay is an opening of the Irish Sea It is about 6 m long and 7 wide at the

entrance

Dundee City and seaport It It is situated on the north side of the Firth of Tay, here crossed by the Tav Bridge, 60 m from Edinburgh by rail and 42 by road It is served by the L.M.S and L.N.E. Riys. The buildings include the town churches, three under one roof, (S Mary's, S Paul's and S Clement's), the cathedral of the see of Brechin, and the Roman Catholic pro-cathedral, and several other fine churches Caird Hall is the gift of Sir James Caird University College is part of the University of St Andrews There are technical and the t nical schools and a high school. The city has several public parks, including the Caird

Baxter and Bargay
the town, is public property
Dundee is a centre of the jute, linen and
Dundee is a centre Other industries are engineering, shipbuilding, dveing and printing It is famed for its marmalade and is a publishing centre. There is a good harbour along the river and the port has a large trade in timber. It is also headquarters of the whaling industry. The city includes the watering place of Broughty Ferry 175,583 Pop (1931)

Dundee is the name of a small town in Natal It is on the railway, 6 m from Glencoe,

and is a coal mining centre. Pop, 3000

and is a coal mining centre.

Dundee Viscount. Scottsh soldier, also called Graham of Claverhouse A son of Sir William Graham of Claverhouse John Graham was born about 1649 and went to the University of St Andrews He became a soldier and saw a good deal of fighting in France and the Netherlands He served under William of Orange, whose life he saved on one occasion In 1673 he was life he saved on one occasion In 1673 he was life he saved on one occasion the Covenanters, life he saved on one occasion In 1678 he was sent to Scotland to put down the Covenanters, a work he did with great thoroughness In 1688 he was made a viscount, and was killed at Killiecrankie July 27, 1689 whilst fighting at the head of the force he had raised for the Stuarts against William III Sir Walter Scott refers to him as Bonnie Dundee

Dundonald Earl of Scottish title family of Cochrane The first earl was Sir William Cochrane a royalist, and the title passed from one to another until it came to Thomas Cochrane, who became the 10th earl in 1831 Born Dec 14, 1775, he entered the navy and saw a good deal of service against France He then chered the House of Commons, and in 1811 probably are a fall as here. in 1814, probably on a falso charge, was expelled

from the nary and Parliament

He entered the service of Chile, and commanded that country's navy during the war of liberation winning several successes. He Andrew Carne of Description of the Parliam of the Parliament of th

he was Commander in-Chief of the Fleet in N America He died Oct. 31, 1860 Douglas Cochrane (b 1852), who became

the 12th carl in 1885, was a soldier. He saw a good deal of service in Egypt and elsewhere, and led the cavalry force that entered Ladysmith in 1900 From 1902-04 he was in com-mand of the Canadian militia His eldest son, Lord Cochrane, succeeded on his father's death in April, 1935

Term applied to slowly moving Dune sandhills formed on the seashore or in deserts by the agency of the wind Sand dunes on the English coast may rise to the height of 40 to 50 ft., and in the Sahara to over 600 ft On the Cornish coast the dunes have overwhelmed much cultivatea ground, and similar conditions prevail on the Lanca-shire and E Anglian coasts In Holland the dunes, partially strengthened, serve to protect the low lying country in the vicinity of the Zuider Zee

The Battle of the Dunes was fought on the dunes outside Dunkirk between the French and the Spanish on June 4, 1658 The French were besieging the town, then a Spanish possession On the Spanish side were some English volunteers under James, Duke of York, and on the French side some regiments of Cromwell's Ironsides Owing largely to the fighting qualities of the Ironsides, France gained a complete victory and captured Dun-

Dunedin City and seaport of New Zealand In South Island it stands on Otago Harbour, and is connected by railway with the interior From it steamers go to Sydney, Melbourne and elsewhere, although the larger ones only come up to Port Chalmers, 8 m away Here is a university which is part of the University of New Zea-land. The industries include refrigerating works, and the manufacture of woollen goods, hoots, etc Dunedin was founded by Scottish Presbyterians in 1848, and developed owing to the opening of the Otago gold mines The name Dunedin is sometimes used poetically for Edinburgh. Pop. (1932), 87,400

Dunedin Viscount Scottish lawver Born in Perthshire, Nov 21, 1849, Andrew Gral am Murray was the son of a lawyer He went to Harron and Trinity College, Cambridge, and in 1874 became an advecate In 1891 he entered Purlament as Unionist M.P for Buteshire, and he was made Solicitor General for Scotland, 1891-93 Again in 1895 96 he held that position, and from 1896 to 1703 was Lord Advectte From 1903 05 he was Secretary for Scotland, and from 1805 to 1913 President of the Court of from 1905 to 1913 President of the Court of Session, becoming a Lord of Appeal in 1913 He was made a viscount in 1926 and retired in 1931

Dunfermline Royal burgh of Fueshire. It stands on
the Firth of Forth, 17 m from Edunburgh
on the L.N.E. Rly. The burgh was a residence
of the kings of Scotland. Here Charles II signed the Solomn League and Covenant. The chief Industry is the manufacture of fine linen damask. The burgh includes Rosyth, and a garden city. It was the birthplace of of liberation winning several successes. He commanded the Brazillan navy (1823-25), and then the Greek navy In 1832, having large annual sum to be spent on improving returned to England, he succeeded to the carldom, and was pardoned. From 1848-51 Pop (1931) 34,951

DUNRAVEN

416

DUNRAVEN

Agreet town and urban district of Tyrone, N district of Tyrone, N district of Belfast, to the west of Belfast, to the watering place of Dungarvan Hish Free State It stands on Waterford, Irish Free State Waterford and Waterford, Irish Free State Waterford and Dungarvan Dublin where the Colligan River Dungarvan Dublin where the centre and has an export trade Across the river is Abbey enters the sea It is a fishing centre and has an export trade Across the river is Abbey enters the sea It is a fishing centre is Abbey enters the sea It is a fishing centre is Abbey enters the sea It is a fishing centre is Abbey enters the sea It is a fishing centre is Abbey enters the sea It is a fishing centre is Abbey enters the sea It is a fishing centre is Abbey enters the sea It is a fishing centre of the Chelmer, Is noted for the custom, about 2 m away it is noted for saven designed elsowhere, and long observed here, about 2 m away for grand a flitch of barracks of glving a flitch of barracks and watering place of the Chelmer, Is noted to the residence of the residence of the residence of the counters of warricks and watering place of the residence of the counters of warricks and warrick and watering place of the residence of the residence of the counters of warricks and the first place of the Chelmer, Is noted to the residence of the counters of warricks and the counters of the counters of warricks and warrick and watering place of the chelmer, Is noted for the residence of the counters of warricks and the residence of the counters of the residence of the chelmer, Is noted for the residence of the chelmer, Is noted for a warrick and warrick and watering place of the chelmer, Is noted for a warrick and the residence of the chelmer, Is noted for a warrick and warrick and

Pop. 5300 Promontory on the south It juts coast of Kent. It juts out into the English Channel not far from the English Channel not far from the English Channel not far from In 1652 there was a sea fight guard station In 1652 there was a sea fight near here between the English and the Dutch fleets Pop, 5300

fleets
Also, port of Queensland
Also, port of Queensland
Also, port of Queensland
Hinchinbrook Channel, it exports sugar which
is brought down the river Herbert. It is
brought down the Brisbane
about 940 m north of Brisbane
Town of Perthshire
Dunkeld on the Tay, 16 m from Perth,
on the LMS Rly
on the LMS Rly
on the Church, once the choir of the cathedral,
the church, once the choir of the cathedral,
which was destroyed at the Reformation
other parts of the building are in ruins and
other parts of the building are in ruins and
other parts of the building are in ruins and
other parts of the building are in ruins and
other parts of the building are in ruins and
other parts of the building are in ruins and
other parts of the building are in ruins
of the pulled House is a seat of the Duke of Atholi
Dunkeld House is a seat of the Duke of Atholi
Pop , 1050

Pop, 1050

Dunkery
from Porlock
12 m round,

Beacon or hill of Somerset
It is on Exmoor, about 5 m
It is 1700 ft high and about
It is 1700 ft high and about
and is the highest point on Pop , 1050

Dunkirk Scaport of France It is on the Straits of Dover, near the frontier of Belgium It has two harbours frontier of Belgium It has two harbours well equipped with docks and quays, and there is a constant service of steamers with London Dover, and elsewhere Shipbullding is carried there are some manufactures. Exmoor Dover, and elsewhere Shipbuilding is carried on, and there are some manufactures and in the Dunes and in the Battle of the Dunes took place just name means the Church in the Dunes down place just 1658 the Battle of the Dunes took place just 1658 the Battle of the Dunes took place just 1658 the Battle of the Dunes took place just 1658 the Battle of the Spanish outside it was long parts of the France Dunkirk was long parts of the France It was bombarded during the Great War but to the Germans Its modern prosperity is due the Germans to the great industrial area of the Its nearness to the great industrial area of the Belgium and N E France Pop 39,000 Belgium and N E France Pop the Spanish Name sometimes given to the

Dunlin Name sometimes given to the

A veterinary surgeon in Belfast In 1887 in 1890 in devised a pneumatic tyre which he patented the following year, although an earlier of a patent in 1846 in 1890 Dunlop sole of a patent in 1846 in 1890 Dunlop sole of a patent william exploitation and a company was formed for its commercial patent to William for the Successor of this still and a company was formed for its commercial patent to William and Dunlop tyres are sole of this still bears his name and Dunlop tyres are sole of the successor of the still borne of Dunmore since 1686 by the Ideal of Scottish title borne in Stillageshire and a specially in the still and the still still borne in 1871, the Sth earl was the still still and the still still and the still still and the still still and the still still still and the still still still and the still still still still and the still still still still and the still sti Dunlop He was born in 1840 at Dres horn, Ayrshire, and for many years practised as a veterinary surgeon in Belfast in 1887 he devised a pneumatic tyre which he patented in the following year, although an earlier in the following year. he devised a pneumatic tyre which he patented in the following year, although an carller form of pneumatic tyre had been the subject to make the following tyre had been the sold his for a patent in 1846 in 1890 Dunlop sold his patent to William Harvor Du Cros (q v) and a company was formed for its commercial that a company was formed for its commercial and a company was f

DUNRAVEN

the residence of the Countess of Warwick.
Pop 2800
Little Dunmow, also on the Chelmer, is about 2 m away It is noted for the custom, paralleled elsewhere, and long observed here, and long elsewhere, and long observed here, of giving a flitch of bacon to any married of giving a flitch of bacon to any married of giving a flitch of bacon to any married married for a year and a day, they have not married for a year and a day, they have not regretted the union The examination is now held at lifter a process of warriers and a day.

Dunne Finley Peter as the creator of rist, known as the creator of rist, known as the creator of a journalist. He made his name by contributing to The Cheago the name of Martin humorous He represented Dooley as an Irish Looley and the commented, in his own viva American who commented, in his own viva Clous way, on the happenings of the day The sketches have been published as Mr. The sketches have been published as Mr. Dooley 8 Philosophy, and under other titles

Dunnottar Town of Kincardineshire is about a mile from stonehaven and is famous for the ruins of its castle One of the strongest in the country, it was besleged several times before it was besleged several times which over it was besleged several times which over dismantied in 1715 The ruins, which over look the sea, are extensive and picturesque Pop 2250

Dunois Jean French soldier Born in Paris, Nov 23, 1402, he was a natural son of Louis, Duke of Orleans, a brother of Charles VI, and was known as the Bastard of Orleans. Bastard of Orleans. He became a soldier, was given a high command and soon made was given a high command and soon made himself famous He defended Orleans until it was relieved by Joan of Arc, and then he drove out the English, a landmark in the entered upon a career of conquest. Gradually he drove out the English, a landmark in the carve out the taking of Chartres in campaign being the taking of Chartres in 1432 In 1450 he finally expelled them from Chartres in Normandy and later from Guienne His Normandy and the Bastard a national hero exploits made the Park and search a search and the Bastard and Search and

Dunoon Bursh and Beaside resort of Strath of Clyde The bursh includes Kirn The bursh includes Kirn and Hunter's Quay the latter, situated at the entrance to the Holy Loch, is a fashionable the entrance to the Holy Loch, is a fashionable service from Greenock and other places along yachting centre greenock and other places along service from Greenock and other places the Clyde Highland Mary was born here the Clyde (1931) 8780

carl's eldest son is called Viscount Adare and his seats are Adare Manor, Limerick, and Dunraven Castle, beautifully placed overlooking the sea near Portheawl

Dunrobin Castle in Sutherlandshire, the chief seat of the Duke of Sutherland It stands on the coast of Dornoch Firth, not far from Golspie A magnificent modern building, it occupies the site of an older castle There are two broobs, or round towers, and a museum in the grounds

Duns Burgh and market town of Berwickshire also the county town It is 55 m from Edinburgh, on the LNE Rly Near is Duns Law, a hill 700 ft high Pop (1931) 1788

Dunsany Baron. Irish title held since 1439 by the family of Plunkett. Sir Christopher Plunkett, a landowner in Co Meath, was the first holder, and it passed from one to another of his descendants until it came to Edward John Plunkett as the 18th baron He was born July 24, 1878, and became a soldier, but is better known as a writer His works include many novels and stories, and some successful plays including The Glittering Gate and A Night at an Inn The family seat is Dunsany Castle in Co Meath

Dunsinane One of the Sidlaw Hills, Perth, and is famous for its mention in Macbeth Here the king is supposed to have been defeated by Earl Siward An ancient fort on it is called Macbeth's Castle

Dunsink Village of Co Dublin, Irish Free State It is 4 m to the NW of Dublin and is the site of the observatory of Trinity College, Dublin, which dates from 1785

Duns Scotus Friar, and one of the mediaeval schoolmen He was born probably at Duns, Berwickshire, and became a teacher at Oxford, where he was connected with Merton College He became a Franciscan and went to Paris, where his skill in controversy gained for him the title of Doctor Subtillis He died for Loogne Nov 8, 1308 Scotus was the founder of Scotism, metaphysical doctrines which long struggled for the mastery against Thomism, the theological doctrines of S Thomism Aquinas The word dunce was first applied to his followers because of their resistance to the "new learning"

Dunstable Borough and market town of Bedfordshire It is 37 m from London, on the LMS and LNE Rivs. In S Peter's Church, Cranmer pronounced the divorce of Catherine of Aragon The hills near are called Dunstable Downs Pop (1931) 8972

Dunstaffnage Castle of Arsyllshire overlooking Loch Etive The ruins are those of a building of the 15th century, but there was a castle here at a much earlier date. In it the early kings of the Scots lived and the Stone of Destiny was kept. The castle was long a seat of the Stewarts of Appin

Dunstan English saint and prelate Born at Glastonbury in 909 he went to the abbey school there and then to the court of King Athelstan Later he returned to the abbey and became a monk in 943 he was chosen abbot and soon became the chief adviser to King Edred. On Edred's

death in 955 he was exiled, but returned when Edgar became king of part of England in 957 The King made him bishop of Worcester and in 959 of London also, and he remained the principal minister of Edgar and also served his son Edward In 979 he retired, and on May 19, 988, he died at Canterbury He was made a saint, many churches are dedicated to him

Dunster Market town of Somerset. It from Minchead, on the GW Rly Dunster Castle, long the seat of the Luttrells, stands on a hill above the town in large grounds The chief buildings are the church, the varn market and the Luttrell Arms Pop 1380

Dunsterville Lionel Charles English Nov 9, 1865, he was educated at Westward Ho Collego and entered the army in 1884 Later he transferred to the Indian Army and saw active service on the frontier and in China In 1918 he was in command of the force that went from Mesopotamia to Baku to save the oil wells there He wrote an account of this called The Adrentures of Dunsterforce Dunsterville, who is the hero of Kipling's Stalky & Co, wrote also Stalky's Reminiscences

Dunwich Village of Suffolk On the North Sea, 4 m. from Southwold, it was in Anglo Saxon days an important seaport and the seat of a bishop. The harbour and buildings have been destroyed by the inroads of the sea

Duodecimal Method of computation of a scale into twelve equal parts. It is used in building and engineering calculations. Thus a foot is divided into twelve inches or primes, these into twelve parts or seconds, and similarly into thirds or fourths. A distinction is made between square and cubic feet by using the terms superficial and cubic primes, etc.

Dupleix Joseph François Born at Landrecies, Jan 1, 1697, he was the son of a merchant and in early life went to India for purposes of trade About 1720 he settled there and soon became an official of the French E India Co He rose in the service, and in 1742, as Governor of Pondicherry, became the head of French India Here he aimed at making France supreme in India The war that broke out with Britain in 1744 gave him an opportunity He prevented the English from obtaining Madras and held Pondicherry against them

Although peace was made in 1748 the struggle between the Powers continued unofficially, and by controlling the native rulers he greatly extended his power Clive however, checked him and in 1751 he was recalled and disgraced He died Nov 10, 1763

Duquesne Marquis French sailor Abraham Duqueene was born at Dieppe in 1610 and became a sailor, like his father, who was killed in fighting the Spaniards He himself made his reputation in scafights against the same foe In 1643 he took a command in the Swedish navy which he led against the Danes Again in the French service he forced Bordeaux, which had been seized by rebels, to surrender in 1650 His services were again in demand in 1672 when war broke out with the Dutch He won several fights, the greatest being in April,

Duralumin Trade name for a series of aluminium, copper, magnesium and manganese It used largely in aircraft work on account of its lightness, strength and hardness. In compound duralumin zino and nickel are added, and this alloy has age hardening properties, becoming harder when allowed to stand for a few days after heat treatment.

Durazzo
Town and scaport of Albania
It stands on the Adriatic
Sea, 60 m from Scutari A very ancient place,
it is connected with Tirana by road and rail
way Durazzo, called Dyrrhachium by the
Romans, was an important port when part of
their empire In 1601 it passed to the Turks
under whom its decay was hastened In 1913
it became part of Albania, and was for a short
time the country's capital It was occupied
by the Italians and then by the Austrians
during the Great War Pop (1930) 8 739

Decay Segment of Natal Union of

Durban Seaport of Natal, Union of S Africa It stands on Durban Bay, \$12 m by sea from Capetown and 509 m by rail from Pretoria, and is the terminus of a railway line that runs through Natal into the Transvaal The city is well supplied with parks and open spaces and has zoological and botanic gardens There is a harbour adapted to the needs of modern shipping and Durban is the only port of consequence between Delagon is the only port of consequence between Delagon Bay and E London The chief industries are connected with the sbipping and distributing trades It is the commercial capital of Natal and also a whaling centre Durban is a popular watering place, Ocean Beach being the quarter devoted to this purpose The city was founded in 1824 and is named after Sir B D Urban, its first governor Pop, 151,000

A small town of Cape Province 6 m from Capetown is called Durbanville

Durbar In India a state ceremony The chamber Later it came to be used for the council of a prince or for his officials col It was also used for receptions held lectively by the princes or by the vicercy, and finally for the ceremony held to proclaim a new emperor Magnificent durbars were held in 1903 and 1911 to proclaim King Edward VII and King George V as Emperors of India.

Durer at Nuremberg, May, 21, 1471, he assisted his father, a goldsmith, but soon German artist. he assisted his father, a goldsmith, but soon forsook that calling to study under Michael Wolfgemut, the foremost artist in the city Afterwards he spent some years in travel, resisting Venice and meeting Raphael In his earlier years he devoted much of his attention to engraving on wood and copper, but after a second visit to Venice he concentrated on painting Towards the end of his travel on painting Towards the end of his attention to the Netherlands where Charles with the Church of England, and consists of

1676, when he defeated the combined Dutch and Spanish fleets off Sicily, in an action in which De Ruyter fell. For this he was made a merguis Before his retirement in 1684, he led a fleet to bombard Algiers Duquesne died Feb 2, 1688

Dura Buried city of Syria It is on the Euphrates and was discovered by some British soldiers in 1920 Traces of Greek and Roman civilisation have been found, including some fine sculptures The excavation of the site has been undertaken by an expedition from the University of Yale

Dura 11170117

Trade name for a series The British Museum has a fine collection of now a Durer Museum

Durer's engravings on copper reveal a remarkable power of drawing in detail and richness of invention, seen especially in The Knight, Death and the Devil, The Great Horse and the Little Horse and The Arms of Death His woodcuts, which include a series on the Apocalypse, and some done for the Emperor Maximilian, are scarcely less notable, but his portrait paintings, while showing great skill in technique, are somewhat hard and severe His paintings include Adam and Eve. The British Museum has a fine collection of Durer's work Dürer's work

> Durfey Thomas English sign writer in 1633 of a Huguenot family he soon began Thomas in 1535 of a Huguenot family he soon began to write He made a name with some comedies notably The Fond Husband Madame Fickle and Sir Burnaby Whig Durfoy also wrote many songs, collections of which were published, one as Wit and Mirth or Pills to Purge Melancholy He died Feb 26, 1723

Durham County of England In the between the Tyne and the Tees, with a coast-line of 33 m on the North Sea In the west it is hilly and has much beautiful scenery, in the centre and east it is a densely populated industrial area with rich coal mines The chief rivers are the Tees and the Wear Dur chief rivers are the Tees and the Wear Durham is the county town, but several others are larger, these being chiefly in the industrial area along the Tyne and the Tees such as Gateshead, S Shields and Stockton Sunder land and the Hartlepools are large scaports Other places are Jarrow and Darlington Bishop Auckland and Barnard Castle are among the places with historic associations. The county has many populous urban districts The L N E Rly serves the county Ten members are returned to Parliament. It is in the diocese of Durham and covers 1013 sq m 1013 sq m

Durham, owing to its position, was long a county palatine, its ruler being the bishop He had his own courts and enjoyed great authority, a little of which was retained as late as 1836 Pop (1931) 924 050

Durham City, market town and the county town of Durham It is on both sides of the Wear, 254 m from London and 14 from Newcastle and is reached by the LNE Rly The chief buildings are the cathedral and the castle, both standing high on land almost surrounded by the river The cathedral, one of the most magnificent in Excelent her ways features of interest in-England, has many features of interest, including the Galilee Chapel, the towers, the cloisters and the relies of S Cuthbert The castle, now used by the university was once the residence of the prince bishops of Durham. Extensive restoration work was undertaken in 1927 Near it on Palace Green, are other buildings erected for the university The city has some old and interesting churches one being S Oswald's The bridges across the Wear, especially Framwell ate, Prebend s and

women students. At Newcastle there is Armstrong College and the College of Medicine The university has a marine biological station at Cullercoats, agricultural research stations and an observatory.

The Durham Light Infantry is a regiment of It consists of the 68th and the British Army 106th regiments of foot, the former of which dates from 1756 The regiment has a fine record of service and its battalions did splendid The depot is at work in the Great War

work in the Great War The depôt is at Newcastle-on-Tyne

Durham Earl of English title held by the family of Lambton The 1st earl was John George Lambton, a member of a family that had held land in Durham for centuries He was born April 12, 1792, and succeeded to his father's estates when young In 1813 he entered Parliament as MP for Durham and his advanced opinions made him known as "Radical Jack" In 1830, having been created a neer be was 1830, having been created a peer he was made Lord Privy Seal, and as such he had a good deal to do with the passing of the Reform Bill In 1833 he left office and was made Earl of Durham In 1835 he went as Reform Bill In 1853 he left office and was made Earl of Durham In 1835 he went as Ambassador to St Petersburg and in 1837 as Governor-General of Canada. He soon resigned, but his term of office is memorable because of the Report which he prepared This recommended the union of the two Canadas, and other measures, which were subsequently carried out. He died July He died

28, 1840
The earl was succeeded by his son, George,
the carl was succeeded by his son, George, and in 1879 by his grandson, John George, born in 1855 He was Lord Lieutenant of Durham and Chancellor of the University died in Oct , 1928 His twin protter r ... Lambton, then succeeded to the title and estates but died a few weeks later His son, John than became the 5th earl The earl's John then became the 5th carl The earl's seat is Lambton Castle, Durham, and his

eldest son is Viscount Lambton

Durian Tree of the mallow order It the archipelage of Malaya, where it is widely cultivated for its fruit. This contains a This contains a delicious, almond flavoured, custardy pulp which is highly esteemed by the natives, although when unfresh it emits offensive odours The chestnut-like seeds are eaten roasted or pounded The fruit is prickly and about the size of a coconut, the tree grows to about 90 ft

Dursley Town of Gloucestershire It. 129 from London, on the LMS Riv Agricultural implements are made here Pop 2601

Duse Eleonora Italian actress She was born Oct. 3, 1859, near Venice, and after juvenile successes made her mark in 1879 In 1883 she achieved international same in La Dame aux Camelias inteliectual, influenced by Arrigo Bolto, and a sincere helper of Italian drama as exemplified by Gabriele D'Annunzio Her successes in England include "Paula" in The Second Mrs Tanqueray, and "Nora" in A Doll's House, and many others in France and Italy, and died in 1909, but reappeared in 1921, and died in America April 21 1923 She was and died in America, April 21, 1924

Dusseldorf City and river Germany It st

University College and several halls The falls into the Rhine It is 24 m from Cologne system is residential and there are hostels for and is an important railway junction. Its is many fine buildings include the former palace of the electors palatine, the law courts the exhibition halls and the library The city is well provided with parks, squares and pro-menades Two bridges cross the Rhine here One, opened in 1929, connects Düsseldorf with Nenss

> The city is famous as an art centre The chief collections of pictures are in the academy of art and the municipal art gallery is a zoological garden and a stadium that will hold 50,000 people Düsseldorf has a harbour but of greater importance are its manufacturing industries. These include from and steel goods industries and chemicals It is also a banking centre. Some of the buildings erected for business purposes are fine examples of modern archirecture

Pop 460,000

Dust Particles of solid matter They are present in the atmosphere from Dust of terrestrial origin is various causes carried into the atmosphere by ascending air carried into the atmosphere by ascending air currents and consists of particles of soil or rocks, minute organisms, pollen of plants, particles from burning fuel, factories, etc. Some dust is of volcanic origin—that from the eruption of Krakatoa, near Java in 1893 coloured the sunsets for a couple of years—whilst cosmic dust is derived from meteorites. whilst cosmic dust is derived from meteorites. The formation of rain, mist and for depend-upon dust particles acting as nuclei around which moisture condenses

Dutch Auction form or auction in which the sales man at first offers objects at prices higher than he is prepared to accept. He lowers the price gradually until reaching one which a purchaser accepts, the object being knocked down to the first bidder at that price. Should no bid result on reaching his minimum the object is withdrawn

Dutch Metal Brass alloy contain (about 92 to 97 per cent) of copper than ordinary brasses and having a gold colour and high malleability Dutch metal may be hammered out into thin sheets or leaves of less than 50,000th of an inch in thickness and consequently is used as a substitute for gold leaf for gilding cheap articles It is, however, hable to blacken with moisture or from atmospheric impurities. The varying shades of colour in Dutch metal are due to different proportions of copper in the alloy

## Dutch Reformed Church

Protestant body in the Netherlands, S Africa and the United States. It is an ofishoot of the National Church of the Netherlands the National Church of the Netherlands founded by early Dutch settlers in the United States when they first became independent It is Calvinistic in of the mother church doctrine and Presbyterian in church govern-ment There is a Dutch Reformed Church at Austin Friars, London, E C

Dutch Wars Naval wars between England and the United Provinces The first war broke out in 1652, ostensibly because of Holland's diplomatic rebuffs to England, really because of the intense commercial rivalry between the two countries, especially in the North Sea and the East Indies. The First and Second Dutch Wars, 1652-1654 Dusseldorf City and river port of and 1664-1667, were purely trade wars. In the the Westphallan coalfield where the Dusselbach English naval prestige, until Admiral Blake

defeated him in 1653 The wars ended with the which he interpreted the spirit of his own Treaty of Westminster (1654) and the Peace of people This included the Stabat Mater and Treaty of Westminster (1654) and the Peace of Breda (1667) respectively The Third War (1672 74) was bound up with continental polities, and the Dutch, under William of Orange, eventually forced England to make peace

Duty A form of tax. The taxes on beer or whisky and on certain imports, such as tobacco, watches, motor cars and matches, are called duties Those on beer and whisky, being collected on goods made in the country, are called excise duties The others,

country, are called excise duties. The others, being on imports, are called customs duties. See Oustoms, Excise:

Duval Claude Famous highwayman settled in England about 1660, and was at first a servant of the Duke of Richmond Later he became a highwayman and his exploits on the road made him feared and renowned. He evaded capture for some years, but, in 1870 he was taken when dwarf. renowned He evaded capture for some years, but in 1670 he was taken when drunk in a London inn, and was hanged at Tyburn.

Duveen Sir Joseph Joel English art dealer By birth a Dutchman, he was born in 1843 Having settled in England, he became a dealer in antiques in Hull, and a naturalised Englishman. In 1877, with his brother Henry, he founded the firm of Duveen Brothers and they were soon among the leading picture dealers in the firm of Duveen Brothers and they were soon among the leading picture dealers in London and New York. Duveen was knighted just before his death, Nov 9, 1908 He presented a Turner annexe to the Tate Gallery

and several pictures to the nation

His son, Joseph, born in 1869, entered his
father's business He built additions to the
Tate and National Galleries, and was made a
baronet in 1926 In 1930 he assisted Mr S
Courtauld to establish a national institute of

Dux (Latin, a leader) Word meaning a leader or chief It is used in this sense in some schools for the head of the school. or of a form or class

DV1112 Name of two rivers of European Russia. The Northern Dvina flows north for about 360 m It passes Archangel and empties itself into the White Sea by five mouths It is navigable during the summer months

The Western Dving rises in Russia and passes The Western Dvina rises in Russia and passes into Latvia, falling into the Gulf of Riga, 9 m from the city of that name. It is navigable and is part of the continuous waterway, helped by a canal between the Baltic and the Black Seas. There was a good deal of fighting along this river between the Germans and the Russians during the Great War.

Dvinsk Town and river port of Latvia is an important railway junction. It began as a post of the Teutonic Order, later becoming part of Poland in 1772 it was taken by Russia, and in 1920 was given to Latvia. There is a trade in grain and other commodities, but the is much less considerable then it was before this is much less considerable than it was before

this is much less considerable than it was before 1914 and the population has declined by more than half. Its other names are Dünaburg and Daugavpils. Pop (1930) 43,226

DVOTÁK Antonin Bohemian composer Born Sept. 8, 1841, he studied music at Prague and won recognition as a composer with his Slavonic dances. In 1892 he became head of the National Conservatoire. became head of the National Conservatoire great size and length, and are strengthened by of Music at New York, and in 1901 head of the conservatoire at Prague He died May 1, 1904 Dvolák wrote a good deal of music in piles or masonry Offa's dyke, a dyke of

a cantata.

Term applied to man and to Dwarf Dwart animals and plants when below the normal height Certain races of mankind are of short stature, as for example, the Bushmen of South Africa, with an average height of 4 ft. 7 in, and the Akkas or Pigmies, of Central Africa, about 4 ft 10 in in height.

Dwarf Trees which may bear flowers and fruit are cultivated in China and Japan by a

system of root pruning and reduction of the

Dyak Aboriginal people of Borneo Some made of bamboo and use blow guns They were chiefly known as head hunters, but this practice has now been suppressed.

Dyarchy Term meaning government by two elements in the state into use in the 20th century when changes in the government of India were under discussion Dyarchy was introduced when the constitution was altered so as to allow Indians to share the government with the British

Dyeing Art of imparting colour to textile and other materials. It is therefore an important auxiliary to cortain manufacturing industries, notably cotton Various substances of vegetable origin have been used, and still are to a limited extent, as dyestuffs for fabrics, but although brilliant in colour these are more or less fugitive in character. Within recent years, however, the introduction of coal tar derivatives are dyestyffs has led to the disuse of most natural. as dyestuffs has led to the disuse of most natural dyes except for special purposes, as the syn thetic products give a wider range of tints and

great permanency
The chief vegetable dyes are indigo, fustio, logwood, archii and annatto, some of these being used for staining wood as well as textiles, and others like annatto and turmeric for colouring foodstuffs Substantive dyes are those which unite directly with a fabric while

adjective dyes require a mordant—a metallic salt which unites with the dye to form an insoluble pigment or "lake"

To protect the industry an Act was passed in 1921, forbidding the import of dyestuffs into Great Britain except under licence. It was into Great Britain except under licence. It was to last for ten years and under it a virile and progressive dye industry has been established in Britain The Board of Trade has a Dyestuffs Industry Development Committee, and there is an advisory licensing committee in Manchester

Dver's Greenweed name of Genusia tuctoria, a leguminous plant common in England and Central Europe It was used formerly as a dye producing plant. The flowers yield a bright yellow dye which, when mixed with a solution of wood, gives a green colour known as Kendal green. It is now super seded by more permanent coal tar dyes

Dyke Term applied to an embankment creeted on a river bank or on the sea shore to prevent the flooding of the adjacent land These are seen in low lying countries, such as Holland, the fen districts of England and the Mississippi region in N America. In Holland the sea dykes are of the property and are strengthened by

another kind, was built probably by Offa, King of Mercia, to keep out the Welsh

Dymchurch Village and seaside resort from New Romney and was once famed for its snugglers Dymchurch Wall is an embankment built to keep the sea from Romney Marsh Pop 700

Dymoke English family which holds the Dymoke champion at the coronation of Richard II, held the office as Lord of the Manor of Scrivelsby, Lincolnshire Since then the championship has remained in the family, but it is now an honour only

Dynamics Branch of physical science dealing with the nature of motion and the laws governing movement. It has its foundation in Newton's laws of motion, which state that force is necessary to change a state of rest or uniform motion, that change of momentum is proportional to the force applied, and that there is an equal and opposite reaction to every action.

Dynamite Powerful explosive Used the consists of 75 per cent of nitro-glycerine and 25 per cent of hitro-glycerine and 25 per cent of kieselguhr, the latter substance (a siliceous diatomaceous carth) being used as an absorbent. The mixture, after being kneaded and passed through a siere, forms a reddish-brown greasy powder, which can be burned without danger, but oxplodes violently with a detonator. To a large extent the original formula has been replaced by gelatin dynamites in which gun cotton takes the place of kieselguhr.

Dynamo Generator of electric current in which mechanical energy is converted into electrical energy. The essential parts of a dynamo are the magnets and the armature with which are connected the commutator, and stationary brushes. The armature consists of a series of wires or conductors arranged around an iron core mounted on a shaft. It is rotated near the poles of a powerful magnet, and the current generated as the conductors cut the magnetic field carried from the armature by brushes of copper wire, or carbons rubbing on the commutator, to be used for lighting purposes or power

Dyne Term used in physics It is the unit of force, which, acting upon a mass of one gramme, will produce an acceleration of one centimetre per second every second. The erg or unit of work represents the work done in overcoming a force of one dyne through a distance of one centimetre.

Dysart Royal burgh and watering place of rifeshire It is on the Firth of Forth, 2S m from Fdinburgh on the LNE Rly At one time coal was shipped from here but in 1928 the harbour was closed. Pop 4600.

The title of Earl of Dysart is borne by the family of Tollemache. It was given in 1643 to William Murray, whose daughter married Lionel Tollemache. She became Countess of Dysart on her father's death and the title has since remained with their descendants. The earl's seat is Ham House, Petersham, and his eldest son is called Viscount Huntingtower.

Dysentery Infectious disease It is associated with inflammatory irritation of the lower bowels, sometimes with ulceration It may arise from a specific bacillus, entering the body in food or drinking water and occasionally presenting malarial or scorbutic complications Tropical conditions emphasize it, great epidemics sometimes ravage armics or closely-settled communities Ipecacuanha is sometimes efficacious, with frequent irrigation and saline administrations Death may supervene in a few days, or the disease may recur chronically for years

Dyson astronomer Born, Jan 8, 1865, the son of a Baptist minister, he was educated at the grammar school, Bradford and Trinity College, Cambridge, where he was second wrangler In 1894 he became assistant at the Royal Observatory, Greenwich, and in 1905 he was made astronomer royal for Scotland After five vears in Edinburgh, he returned to Greenwich as astronomer royal In 1901 Dyson was elected FRS, in 1915 he was knighted, and in 1926 received the KBE

William Henry (' Will Dyson ")

Ballarat in 1883, he was educated at Med bourne He settled in London, and made a reputation by his cartoons in The Daily Herald Dyspepsia Word meaning indigestion It vaguely denotes a group of symptoms involving impaired power of digestion and various forms of gastric derangement, not necessarily limited to the discomfort occasioned by food remaining in the stomach It is sometimes definitely diagnosable as acute or chronic gastritis, gastric ulcer or as symptomatic of a general disease Functional or nervous dyspepsia, due to abnormal activity, retardation or modification of the digestive processes, may occur in heavy drinkers or persons subject to constant exhaustion or mental depression Acute dyspepsia may be due to single serious errors of dict, as eating unripe fruit, unfresh or excessive food, or

Dysprosium Very rare metallic elein 1886 by spectroscopic examination of certain rare earths. Its symbol is Dy and it has an atomic weight of 102 5. It is found in the minerals gadolinite and envenite associated with other rare elements, and its compounds show a strong absorption spectrum.

indulging in alcoholic excess

AGLE Hemidic symbol It dates from Persian, Egyptian and Roman times, and was used by Charlemagno, remain ing on the imperial arms until the dissolution of the Holy Reman

Empire in 1806 Russia, as the successor of the Greek Empire, and Austria used a double headed eagle Gormany, which took the symbol in 1871, used

a single-headed one

As an American emblem the eagle was used by the Indians, and adopted by the United States as a national emblem, with a single head and in its talons arrows and an olive branch The republic of Mexico has placed the eagle on

The eagle is the name of a gold coin of the

United States It is worth ten dollars.

Eagle Large bird of proy. Its featherclad head, short sharply-hooked bill
and habit of preferably killing its own proy
distinguish it from the unfeathered head and
longer bill of the vulture. The golden eagle,
rarely seen in England, comes from Scotland on rarely seen in England, comes from Scotland or Ircland, where it builds its nest in inaccessible oliffs. It is about a vard long and will attack lambs, though usually it feeds on rabbits and hares The erne, or sea eagle, formerly bred in Scotland There are many varieties in other parts of the world A large owl occasionally seen in Great Britain is called the eagle owl It is about 2 ft long and will attack rabbits and forms. und fawns

Ealing Borough of Middlesex It is 6 miles from Paddington by the GW, District, and Central London Rive Ealing Common and two parks, Walpole Park, and Perivale Park, provide open spaces, and Gunnersbury Park, the old residence of Leopold de Rothschild is shared with Acton In 1901 Ealing was made a borough and Han well and Greenford were incorporated in 1926

well and Greenford were incorporated in 1926
Pop (1931) 117,688

Ear Organ of bearing The human car
consists of three parts outer middle
and inner The outer ear, which consists of the
plana or auricle and the meatus, is of little
importance, at least in man In the meatus,
the wax, which is dried excretion accumulates
and may impede hearing The middle ear,
separated by the ear drum from the outer ear
has a cleer relationship with the brain and the has a close relationship with the brain and the threat An inflammation of this part of the ear may therefore be highly dangerous. The inner car, esparated by a membrane from the middle car is filled with fluid and in it is the cochler, where the nerve of hearing ends

The ear is subject to a number of diseases and complaints Somemerely affect the hearing, which usually becomes a little harder with advancing yeers, or may be impaired in the case of artillerymen and others who experience

case of artillerymen and others who experience loud noises Others are of an inflammatory nature and may be dangerous to life. The Royal Ear Hospital is in Huntley Street London W 1 See DLAFYESS

Earache This may generally be relieved by external heat, or a few drops of warm giveerine may be dropped into the car passage ruleb is then closed with cotton wool. If the which is then closed with cotton wool. If the pain is severe, use a few drops of a mixture of glycerine of carbolic and pure glycerine (1 in 7), properly mixed by the chemist

Persistent earache or earache accompanied by a discharge or tenderness behind the ear should have immediate medical attention

Earl Title in the British peerage It ranks third, but historically is the oldest of all Its equivalent in some countries is count, and an earl s wife is called a countess. An earl's cliest son bears his father's second All duris criest son bears his nature a second title, the other sons use the word honourable and the daughters lady before the Christian name. The Earl of Arundel, a title of the Duke of Norlolk, is the premier English earl, the Earl of Crawford and Balcarres is the premier Scottish one

The first earls appeared in Anglo Saxon times Soon they were rulers of parts of the country, e.p., Earl Godwin The office continued in Norman times and each country had its earl, who was contilled to a third part of its revenues Soon the office became hereditary, but after a time the connection between earl and county was broken and it became simply

a title of honour

Earlestown Market town of Lanca shire It is 187 m from London and 5 from St Helens and is a junction on the LMS Rly The industries include railway works Its carly name was Newton Junction. Pop 9000

Earl Marshal English officer of state College of Heralds and his duties are chiefly concerned with the arrangements for coronations and other state ceremonies. The office is an old one and since 1672 has been held by Dukes of Norfolk There were formerly Earl Marshals of Scotland and Ireland In Scotland, till 1716, the office of Earl Marischal was held by the family of Ketth

Earl's Court District of London In the borough of Kon sington it is famous for the exhibitions held here from 1884 until 1914 During the war period the place was used for refuges

Earlsfield Suburb of London It forms borough of Wandsworth, and is on the S Rly

Earlston Merket town of Berwickshire. It is on Leader Water, 72 m from Edinburgh, on the LAE Rir Tairs are held and there are small manufactures. Thomas the Rhymer, who is buried here, called it Erclidoune Pop 1750

Earlswood District of Surrey It is the S Rly Here is a large institution for the mentally defective

Early Closing Term chiefly used in connection with shops Acts were passed limiting the number of hours during which shop assistants could be employed, one being the Shops Act of 1912, providing a veekly half holiday but carlier closing in the evenings was not made compulsory until 1928. In Great Britain shops must close not later than 8 pm, except one evening in the week, when they may remain open until 9 Exceptions are where tobacco, sweets and certain foodstuffs are sold There is on Early Closing Association at 34 40 Lud gate Hill, London, E C 4

Early English Style of Gothic archiRomanesque or Norman and succeeded by
the Decorated It covers approximately the
period 1189 1272 In it wide, round arches
became slim, steeply-pointed lancets Simple
four-part vaulting, often ribbed, slender-clustered columns and deeply-hollowed mouldings, filled with dog tooth ornament and conventional foliage, are exemplified in the
transepts of Westminster Abbey, the cathedrals
at York and Ely and on the west fronts of the
enthedrals at Sallsbury and Ripon and the
Minster at Beyerley In literature, Early
English is approximately a contemporary
period marking the passage of Old English, or
Anglo Sayon, into Middle English

Earn Lock and river of Perthshire The level, is 6! m in length The temperature is so level that the water is said never to freeze. Ardvorlich House, which figures in Scott's Legend of Montrose as Darlinvarach, stands on the shore

The River Earn flows from the foot of the loch and runs castward, entering the Tav near Abernethv Bridge of Earn, a village and watering place, is situated on the river about 6 m from Perth

Earsdon Urban district of Northumberland It is 4 m. from N. Shields and coal mining is the chief industry Pop (1931) 13 086

Earth One of the planets. It is between and has one satellite, the moon. It rotates on its 'xis, causing day and night in 24 hrs, and takes a year to go round the sun from which it is 93,000,000 miles away. Its diameter at the equator is 7900 m and its circumference 24,000 its area is 106,500,000 sq m of which only 55 500 000 are land. Its age has been estimated at 2000 million years.

Earth Term applied to the early chemists to certain metallic oxides which were regarded as basic. The alkaline earths were the exides of calcium, barium and strontium. In relation to pigments used as the basis of oil and water colours, the term carth is used for the ochres, umbers, siennas and terre verte.

In electricity earth is used for some form of conducting apparatus in contact with the ground the uniform potential of which forms a steady background to electrical changes. In a wireless installation the earthing device may take the form of a metal plate, copper tube or wire mat buried in the soil, or the conducting wire may be attached to a water pipe

Earthenware Non-translucent notlearthenware tery, glazed or unglazed The wares called silicon, semi porcelain, factore, stone and granite are carthenware, likewise Roman and Greek tiling and building blocks.

Earth House Primitive underground dwelling of the early inchalled age Plentifully distributed between the Tay and Moray Firth, they are sometimes called Picts' houses. Round or rectangular walls of flags or undressed dry stones converge bechive fashion to captione roofs beneath artificial mounds. They are sometimes approached by stone payed corridors some 80 ft. long. It is suggested that they were rejuges or storehouses connected with timbered surface dwellings. They were occupied during the

Roman occupation of Britain Similar structures are found in Ireland and Cornwall

Earth Pillar Isolated column of soft rock capped by a harder mass It is due to the mechanical action of rain upon beds such as conglomerates, where the rain has nashed away the softer material except where protected by an overlying stone Earth pillars occur in moraines and glacial duits in the Alps, Scotland and North America. Earthquake Earth movement Earth-quakes valv from a mere tremor to a violent uphenval and dislocation of the earth's crust The collapse of under ground caverns, powerful stresses set up in strata causing the beds to snap suddenly under the strain, the infiltration of sea water into the deeper parts of the earth's crust, causing explosions in the heated rocks or volcanic action, are among the couses Most shocks originate along the lower regions adjacent to the great mountain ridges. It is adjacent to the great mountain ridges. It is estimated thet in an area between Lima in Peru and Valparaiso in Chile there is an average of 15 earthquakes yearly. There was a destructive volcanic disturbance here in 1932. Two terrible earthquakes of recent years were those in Sicily in 1908, when Messina was destroyed and more than 70,000 persons perished, and in Japan in 1923, when the casualties numbered 200,000 In 1906 there was one at San Francisco In June, 1931 a distinct carthquake snock was felt in Great Britain Serious damage was done by carthquakes in China and Italy (1933) and in Quetta (1935) Earthwork General term for the mounds circles and barrows constructed by early man and marking the site of megalithic settlements Associated Associated with the larger earthworks are the great stone circles such as Avebury and Stonehenge, and in North America the mound dwellings of Ohio, Wisconsin and Illinois Some carthworks, such as the barrows, are sepulchral in origin others were fortifications or underground dwellings The word is also used for a forti-fication made of earth

Earthworm Family of worms living in the soil The common British species is lumbricus terrestris. Their evilindrical bodies tapering at both ends comprise segmented rings each bearing recurved hooks with which they burrow in the soil They swallow this for its organic contents and void the mineral matter as worm casts. Reproduction is hermaphroditic

Earwig Family of insects They have short, horny beetle-like forewings which protect thin, membrinous underwings folded tanwise and crosswise. The pincer-like appendages, popularly fabled to pierce the car, are quite innocuous. The female sits on her ergs, watching over the young until their final moulting.

Easement Legal term for a right or a right of way a right of light. Another is the right of

Easement Legal term for a right of vavore a right of light Another is the right of support, as given by one building to another in Scots law the equivalent is colled servitude Easingwold in the carry of locations of the laurence sterms wrote the early part of Tristram Shandy Pop 2050

licial mounds. They are sometimes approached by stone prived corridors some 80 ft. long. It is suggested that they were refuges or storehouses connected with timbered surface in 1889 he visited Japan where some of his dwellings. They were occupied during the

include "A Passing Storm," in the Luxembourg Paris, "The Nene Valley," in Venice, and "The Golden Valley," at Leeds Knighted in 1910, he was elected A R A in 1899 and R A in 1913 He died in London, Sept. 28, 1913

East Africa General term for the continent It includes three British protegiorates, Uganda, Zanzibar and Kenya, as well as the mandated territory of Tanganyika (qr), formerly German East Africa It also includes a largo Portuguese possession known sometimes as Mozambique

German E Africa was conquered by the British and their Allics during the Great War Operations began in 1914, but for some time they were not very successful, although the coast was controlled by British ships In Feb., 1916, General Smuts took command, Peb., 1916, General Smuts took command, and the country was gradually subdued, but the last of its German defenders did not surrender until Nov., 1918

East Anglia District in the east of the counties of Norfolk, Suffolk, Cambridge and Huntingdon and sometimes Essex About 620 It became a kingdom and there were kings of East Anglia for about 300 years, although most of them were only vassal kings. The most famous was Edmund, who was killed by the Dones in 870

Eastbourne County borough and watering place of Sussex Lastuduille watering place of Sussex It stands on the English Channel, 68 m from London, and is reached by the Southern Rly To the west is Beachy Head The attractions include a parade along the sea front with gardens called the Meads, and a pler The open spaces include Devonshire, Hampden and Gildredge Parks, as well as the Redoubt Compton Place is a seat of the Duke of Devonshire who owns much of the land Pop (1931) 57,435 Eastbourne College is a public school with accommodation for about 500 boys 500 boys

Eastchurch Village of Sheppey, Kent It is 5 m from Queen borough, on the 8 Rly It is chiefly known as an alreast centre. There was an important air station here during the Great War, which later became a gunnery school for the R A F

Easter Ecclesiastical festival commem orating the resurrection of Jesus Christ The name is derived from the Anglo Saxon goddess of spring Celebrated since the 2nd century and depending upon the lunar calendar, Easter Day has varied through the ages Now it is, briefly, the first Sunday after the full moon following the vernal equinox falling between 2nd Morch and 25th Angli falling between 22nd March and 25th April both inclusive A League of Nations committee in 1923 investigated the question of the calendar generally, and in 1928 a law was passed fixing Laster on the first Sunday after the second Saturday in April In spite of parliamentary support, however, the Act met with consider able opposition, and there is little prospect of its adoption

Easter Island of the Pacific Ocean It covers only 50 sq m and belongs to Chile, from which it is 2300 m away It was discovered on Easter Day, 1722, by a Dutch sallor It is chiefly famous for a remarkable collection of stone monuments, on which are carrings of human faces and other figures, doubtless the work of prehistoric man The island, which has a few native inhabitants, is used as a convict station

Eastern Church Shortened name Orthodox Catholic Apostolic Eastern Church Representing the Christendom established by Constantine in the East Roman Empire, it accepts the general church councils down to the Creat Schlem and comprises. Great Schism and comprises pre-eminently the Greek and Russian, besides the Armenian and Coptic Churches Its highest dignitaries are the patriarchs at Stamboul, Alexandria, Jerusalem and Moscow

Eastern Question Name given to political diffi culties arising out of the government of areas in south eastern Europe The conquests of the Turks put large areas, occupied in part by Christians, under the rule of the sultan In 1774 Russia appeared as the protector of these peoples and gradually they were freed In the 19th century the eastern question continually occupied the attention of European statesman. Green was freed and in 1878 the

continuity occupied the attention of nurropean statesmen. Greece was freed and in 1878 the Congress of Berlin recognised the independence of Bulgaria, Rumania and Servia. In 1907 Austria annexed Bosnia and Herzegovina, and then came the Great War. After this the Tur kish dominion in Europe was reduced to small proportions

East Grinstead See GRINSTEAD

East Ham Borough of Essex, part of to the east of the city on the LMS and LNE Rlys The chief industries are en gineering and the manufacture of chemicals Pop (1931) 142,460

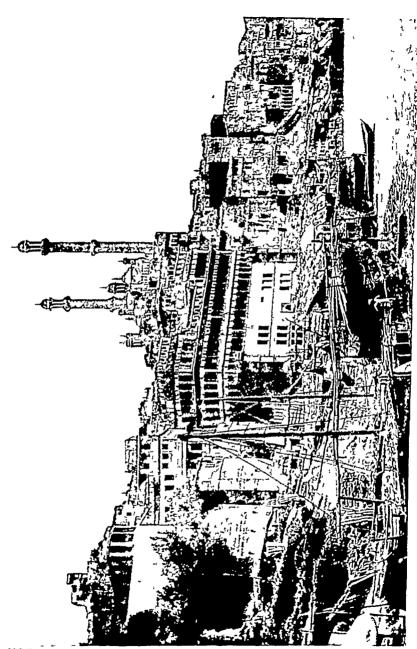
East India Co British company India and the East Indies It was given a charter in 1600 and trading stations work established at Surat, Fort St George, Madras and Hooghli From these grew the three presidencies of Calcutta Madras and Bombay The company ruled British India until 1784 when its powers were shared with the crown, which set up a board of control In 1857 its power was wholly transferred to the crown, and in 1858 it was abolished The company had a house in London in which Charles Lamb worked In 1602 Holland established an East India

Co but this came to an end in 1798 France had a company from 1664 to 1794 and Denmark had one from 1729 to 1801

East Indies Name used for India, the islands of Borneo, New Gulinea, Java and the lands adjacent thereto Sumatra, Java and many smaller islands belong to the Netherlands, many smaller islands belong to the Netherlands, as do parts of New Guinea and Borneo These, known collectively as the Dutch Last Indies, are under a governor general and since 1925 have had a certain amount of self government in the form of an elected Volksrand The total area is 733 000 sq m and the pop 52 000,000 For men who have served in the East Indies there is the Fast Indies the Service Club

there is the East India United Service Club at 16 St James & Square, London, S W

Eastlake Sir Charles Look English Nov 17, 1793, he studied in London and Paris Nov 17, 1713, he studied in London and Paris and for some years resided in Rome Elected A R A in 1827, R A in 1829, and P R.A in 1850 he became the first director of the National Gallery, in which is his great work, "Christ Weeping over Jerusalem" He published a number of books on art. He died at Pisa, Dec 24, 1865



N.S E

P

Eastleigh Urban district of Hamp-from Southampton and is an important junction on the S Rly The main industry is the manufacture of railway stock Pop (1931) 18,333

East London City, seaport and watering place of South Africa In the Cape Province, it stands at the mouth of the Buffelo River and is connected with Capetown 890 m away, by railway The chief industry is shipping Pop 23,200

East Lothian Alternative name for Haddingtonshire (q v)

Eastman George American inventor Born at Waterville, New York, July 12, 1854, he was educated at Rochester In 1880 he perfected a process for making sensitive gelatine dry plates In 1884 he patented a photographic roll film and in 1888 a Kodak camera On these and other inventions Eastman built up an enormous photographic business at Rochester His gifts for charitable purposes are estimated at £15,000,000 Rochester received many of £15,000,000 these, but they also include a dental clinic in London He shot himself on March 14, 1932

Easton Lodge Residence in Essex. Bishop's Stortford, on the LNE Riv The estate belonged to the Maynard family of which the Countess of Warwick was heiress The house is used by Labour and Socialist politicians for conferences

Eastwood Market town and urban district of Nottinghamshire It is 1371 m from London by the LNE Riv, and a coal mining centre Pop (1931) 5360

Eaton Hall Residence of the Duke of the Duke of the Duke of the Stands on the Dee, 4 m from Chester Built in the Gothic style in the 19th century on the site of an earlier hall it contains some remarkable treasures and stands in a park of 400 acres

Eau de Cologne Celebrated perperpared in the first place by Johann Maria
Farina at Cologne soon after 1700 Manufactured at first by a secret process, the perfume
is now made in England and other countries, the essential oils of citron, orange, bergamot, neroll rosemany and sometimes geranium entering into its preparation

Ebbisham Earon English politician Coorge Powland Blades was born April 15, 1868, and entered the family printing busines. He was elected to the city corporation of London and in 1926-27 was lord mayor From 1918 to 1928 he was Unionist M P for the Fpsom division. In 1918 he was knighted and in 1922 made a baronet. In 1928 he heaven a reas as Baron Philishem. he became a peer, as Baron Ebbisham

Ebbsfleet Hamlet on the coast of Kent It is 31 miles from Ramsgate Tradition has it that here Henrist and Horsa landed in 419 and S Augustine in 597 on his nuission to convert the Saxons

Ebbw Vale Urban district of Monfrom London by the GW Rly and is situated
on a tributary of the Ebbw River It is an a
coal miling area but its large steel works
were closed in 1230 Pop (1931) 31,695

and formed part of a priory The industries include iron and steel works, collieries and proper mills

Ecclesiastes Book of the Old Testament It comprises were closed in 1230 Pop (1931) 31,695

the discourses and aphorisms of a despondent sage, Koheleth represented as the instructor

gradually became one of the leaders of the social democratic party. In Nov., 1918, he was one of the small group of socialists who took charge of affairs on the flight of the emperor, signed the armistice and declared the country a republic As provisional president, he called a national assembly which, in Feb, 1920, elected him first president, a position he held till his death in Berlin. Feb 28 1925

Ebonite Hard vulcanised rubber It is made by strongly heating a mixture of crude rubber and 20 to 30 per cent. of sulphur, the product being pressed and polished It is a black, horny substance which is a good non-conductor of electricity and is unaffected by acids or alkalis

Ebony Tree of the natural order ebenaceae There are several varieties and in some the fruit is edible. The tree grows only in tropical areas, notably in India, Ceylon and parts of Africa. Its wood is extraordinarily Tree of the natural order ebenaceae hard and it is in various colours but the black It takes a fine polish and is the most useful is used for mathematical instruments, walking sticks and sometimes for furniture

Roman name of York acres was established here about A D 75 트boracum A civil settlement arose and in the 4th century became an episcopal see. The Archbishop of York still signs himself Ebor Sec York

Ebro River of Spain It rises in the mountains in the north of the country and, flowing mainly east enters the Mediterranean just below Tortosa Saragossa and Toledo are on its banks. It is 465 m long It rices in the River of Spain and its tributaries include the Huerva, Gallego and Guadalope

Ecarté Card game It originated in France early in the 16th century It originated in It is played by two players with 32 cards those between two and six being discarded Five cards are then dealt to each player and the last turned up as a trump The rules allow the players to discard cards and take up others Plav is as at whist and a game consists of five points The ace ranks below the jack, leaving the king as the highest card.

Ecclefechan Village of Dumfries-shire It is 13 m from Dumfries and is portraved as Entepubl in Sarlor Resartus by Thomas Carlyle, who was born and buried here Pop 670

Eccles Borough of Lancashire It is near Manchester on the Irwell, and is 1871 m from London by the LMS Rly The cakes originally made here have become generally noted. The industries are the same as those of Manchester. Pop. (1931)

Ecclesfield Town of Yorkshire (WR) on the LMS and LNE Rive The parish church of S Marv built in the Perpendicular style was formerly known as the minster, and formed part of a priory The industries include iron and steel works, collieries and

Ebert Friedrich German politician Born of a body of disciples. His reflections upon became a trider there. In 1892 he was made editor of a socialist paper at Bremen and he sage, Koheleth represented as the instructor of a body of disciples. His reflections upon **ECLIPSE** 

## ECCLESIASTICAL Ecclesiastical Commission

Body appointed to manage the property of the Church of England The commissioners include the archbishops, bishops and other include the archbishops, bishops and property man but the acting commissioners. include the archbishops, bishops and other prominent men, but the acting commissioners prominent men, but the acting commission was the prominent men, but the acting commission was prominent men, but the acting commission was the in 1830 and its offices are at 1 Mills 1 the set up in 1830 and its offices are at 1 Mills 1 the westminster, London, S W 1 In 1931 the wastminster, London, S W 1 In 1931 the wastminster, London, S W 1 In 1931 the correspondence of the correspondence of the order of the correspondence of the corre

Ecclesiastical Jurisdiction
Exercise of jurisdiction by ecclesiastics over tellow ecclesiastics and laymen in England the lowers of jurisdiction are now somewhat too, to name only two, having passed from limited, matrimonial and testamentary jurisdiction, to name only two, having passed from tion, to state The chief ecclesiastics acourts in England are (a) the Court of the Vicar Church to State The chief ecclesiastical courts in England are (a) the Court of the Acourt of the mand confirm bishops, (b) the Court of Faculties deneral whose function it is to correct manners which deals with marriage licences (c) the court of Courts of Vork, Diocesan (c) the Courts of the various of the Court of Dishops Chancery of the various distinct and (e) the State of Arches, the Ecclesiastical Court of Arches can only be made to the judicial of Arches can only be made to the judicial committee of the Privy Council

Ecclesiastical Law

Ecclesiastical Law and laws curesiastical Law and laws governing the rights and obligations of a church established by law English ecclesias law is derived from common law canon law, and statute law lts jurisdiction, formerly law, and statute law lts law, and statute law lts law, and statute law lts law, and statute law, and law lts law, and statute law lts law, and lt

only with ecclesiastical matters

\*\*EccleS1asticus\*\* an apocryphal Old an apocryphal Old an apocryphal Old an apocryphal Old Strach Written originally in Hebren the of Strach Written originally in Hebren atter authors grandson made a Greek version atter arching Egypt. 132 B C. It welds together aphorisms pertaining to practical morality the aphorisms pertaining to practical morality men aphorisms of the Hebren version, rediscovered praises of the Hebren version, rediscovered from 1896 onwards, have restored much of the original text.

original text.

Echelon arrangement of troops in which teach division is a little to the side either right or left and to the rear of the one nearest to it and to the rear of the one nearest to it in a like sense it is used of warships. And in a like sense it which the plates of glass are arranged so that the edges resemble a flight of steps

Fight of steps

Family of spiny ant enters

Family of spiny ant enters

Allied to the duck bills they

Allied to the duck bills and

Australia and

New Guinea Their two eggs are hatched in

New Guinea Their two eggs are hatched in

New Guinea Their two eggs are hatched in

New Guinea There are five

to and three toed forms

toed and three toed

Narcissus, and, failing to awaken a like passion in him, pined away

in him, pined away

Echo Reflection of a sound after an interval of time from a wall or similar surface. It is produced by waves of compression or rarefaction in the air. The sound is reflected at right angles to the surface and consequently an echo from the walls at different angles and distances gives rise to multiple or repeating echoes.

The echo sounder is an instrument which has been used on trawlers to keep in touch with

The sono sounder is an instrument which heep used on trawlers to keep in touch with

shoals of fish

Echo Organ Musical instrument, and toration period It consists of a repetition of the treble portion and chief stops of a church of the treble portion and chief stops of a church the treble portion and chief stops of a church of the treble portion and chief stops of a church the treble portion and chief stops of a church of the treble portion and chief stops of a church and placed distantly in a lost of the treble of

Norwich and Westminster Cathedrals

Town of Victoria, Australia
Town of Victoria, Australia
Town of Victoria, Australia
Town of the rivers Murray and
stands at the junction of the rivers Murray and
stands at the junction of the rivers Murray and
trom Melbourne, and is a centre for the timber
trom Melbourne, and is a centre for the timber
wool and wrine trades It also attracts trade
trom the Riverina district. Pop 1137

rrom the Riverina district. Pop 4137

Eckenet Hugo German aviator Born
of Count Zeppelin across the Atlantic with 57 people on Exercise 1928, in 1929 he flev round the board in Oct 1928, 1931, to the North Pole board in Survey 1931, to the North Pole other places to demonstrate the possibility of the airship as a regular means of transport the airship as a regular means of transport.

Eckington Market town of Derby Market town of Derby Shire It is 152 m from shire It is 152 m mines and iron and steel works and iron and steel works

and iron and steel works

Fclecticism philosophical opinions
from different systems Thus Cicero, in
from different systems Thus Cicero, in
finenced by Platonic scepticism, studied at
Athens and professed a composite philosophy
are derived from Aristotic and principles
were derived from Aristotic and Descartes
were derived from Aristotic and Descartes
were derived from Aristotic and the sun
stream wedded idealist
burstical beliefs

Fclipse bodies by the interposition of
another, either between it and the spectrally
another, either between it and the spectrally
well or the cellipses of the sun and the moon,
which afford valuable astronomical informa-

vinca amora variable abstraction at the moon An eclipse of the sun is caused by the moon passing between it and the earth of the moon either total or partial and eclipse of the moon is caused by the earth s shadow passing over it is caused by the earth s shadow passing over it is caused by the earth s shadow passing over it is caused by the among as soven eclipses in a soven collipse of the sun occasionally are they visible in Great Britain occasionally are they visible in Great Britain 1930 there were two eclipses of the sun and two of the moon None of these two of the sun and two of the moon None of these culpses of the sun were visible at Greenwich but both eclipses of the moon, visible from the both eclipses of the moon, visible from the Greenwich Eclipses caused by the moons of Greenwich Eclipses caused by the strongers. Worm-like, extensible tongue

Echo

Hera from the amours of Zeus.

Hera made her the amours of Zeus.

She passed her the amours of Zeus.

Hera made her the amours of Zeus.

She passed her the Allera made her the the amours of Zeus.

Hera made her the amours of Zeus.

She passed her the Allera made her the the amours of Zeus.

Hera made her the Allera made her the the amours of Zeus.

Hera made her the Allera made her the the amours of Zeus.

She passed her the Eclipses caused by the moons of A received for the Allera made her the the amours of Zeus.

Hera from the Eclipses caused by the moons of A received for the Allera made her the the amours of Zeus.

Hera from the amours of Zeus.

Name of a received for Name of a still protected for the Allera made her the the amours of Zeus.

Name of a received for Allera made her the the amours of Zeus.

Name of A received for Allera made her the the amours of Zeus.

Name of A received for Allera made her the All

1770, without ever being beaten He was then used for stud purposes and from him most of the English racehorses are descended The lorse's skeleton is in the Royal Veterinary College, at Camden Town, London The Echipse Stakes is a race run at Sandown Park since 1884

Ecliptic Apparent annual path of the the orbit of the earth round the sun The plane of the ecliptic forms a standard level for com-parison of all other directions. The ecliptic is included about 23½ from the perpendicular, but this inclination is liable to a slight increase or decrease over long periods

Eclogue Short pastoral poem. The best known examples are those of

Ecology Section of botany and zoology plants and animals to their environment. It involves a knowledge of both the form and structure as well as physiology The factors of structure as well as physiology environment include altitude and degree of exposure; temperature light and rainfall physical and chemical nature of the soil, and the influence of other plants animals and man These conditions have a marked effect on distribution

Economics Originally the science of management. Much later the term political economy came into use to denote the production, distribution and consumption of wealth. This was first discussed in France early in the 17th centary and from there its study spread to England The foundation of the science is usually attributed to Adam Smith who, in 1776 published The Wealth of Vations This was followed by the writings of John Stuart Mill David Ricardo, and many French and German economists.

These early economists regarded political economy as free from all social and ethical considerations. They imagined an economic mnn, a being who had only material wants and who was satisfied when these were supplied Towards the close of the 19th century economists began to take account of education and housing, even pleasure and recreation, and gradually the word political was dropped. Political economy became economics and its scope was not merely land, capital and labour, rent interest and wages, but everything that

goes to make a full life possible

I conomics is a subject of study at all the universities and examinations therein are part of some of the degree courses. There are professors and lecturers in economics at almost all centres of higher education as at the Lendon School of Economics and Political Science in Houghton St., Aldwich, London, W.C. and for economics the principal publica-tion in The Lendon

tion is The Learning Review.

Ecuador Republic of South America.
In the north of the continent, it lies between Colombia and Peru with a ernstline of about 500 m. on the Pacific. The area is put at 276 to00 sq m rud the population at about 2 000 000 of whom some 500,000 are Indians. Quito is the capital, Guavaquil the largest town and chief scaport. The two are connected by railway, but, in general, com-munications are bad. Much of the country 20 000 ft., or thereaboute in height. There are and valuable supplies of timber In the sultivated area cocoa, coffee and cotton are grown. Oil is found and the land is rich in iren, copper, lead and other minerals

Ecuador, which derives its name from the fact that the equator passes through it, became an independent state in 1830 It is governed by a president and a congress of two houses on the United States model There is a small army recruited by universal service. The unit of currency is the gold surre of 100 centavos, 5 sucres go to the U.S. dollar.

Eczema Properly speaking this term covers a wide range of skin diseases, as most of them exhibit some characteristic feature of eczema at times. It is spoken of as acute and chronic, dry and moist, infective and non injective Normally it is non-contagious, but it is attended by more or less discharge and liching Besides reddened skin, blisters or vesicles may form, discharging a watery or purulent serum and producing crusts or scales A non-weeping form, dr./ eczema, leaves the skin, though irritable, dry and scalv Either form may be acute, vanishing after a few weeks or last for years with intervals of partial recovery. For Moist Eczema use calamine, boracic or zine oxide powder, and protect from the atmosphere. For Dry Eczema, which is a scalv skin eruption with irritation, use greasy applications such as bone ountment, cold cream, or lanoline Do not use soap. Attention should be paid to the diet and general health, and if the condition is at cul serious a doctor should be consulted as drugtrontment may be necessary.

treatment may be necessary

Edam Town of the Netherlands It is

situated near the shore of the Zuider Zee, with which it is connected by a canal Its name is derived from the dam built on the small River Ye. The round red Edam cheese is one of the chief dairy products of the district.

Edda Norse name for two collections of Icelandic literature; the elder poetic, and the younger prose Brynjulf steinsson, an Icelandio bishop, discovered the elder in 1643 It is known as the Sacmund Edda, as it is ascribed to the historian Saemund in the state of the historian saemund the sacratage of the state of the sacratage of Sigfusson (1655-1132), but it is considered by some authorities to belong to an earlier date.

The younger, in three parts was compiled by Snorri Sturluson (1178-1241) The first part contains legends and stories of mythology The second is a treatise on the poetic art, and

Eddington Sir Arthur Stanley Eng-lish astronomer. Born at Kendal Dec 25, 1882, he was educated at Owens College, Manchester, and Trinity College, Combridge where he was contact was a contact. Cambridge, where he was senior wrangier (1904). He became chief assistant at the Royal Observatory, Greenwich, and was made Pluman Professor of Astronomy at Cambridge in 1913. Eddington, who was knighted in 1930, has written much on astronomy and

Eddy Mary Baker (1821-1910) Discoverer and founder of the religion (theology and practice) which she named Christian Science, and founder of the Church of Christ, Scientist, which was organised in Boston, Massachusetts, USA, in 1879. It consists of the mother church, the First Church of Christ, Scientist, in Boston, and branches thereof throughout the world

Mrs Eddy wrote numerous works, the principal of which is Science and Heath will. Key to the Scriptires, the Christian Science

textbook, first published in 1875.

Eddystone Rock in the English Chanfrom It is 14 m from Plymouth breakwater. The first lighthouse

EDEL WEISS The third finished in 1700, was destroyed in 1703 The third inished in 1700, was destroyed in 1703 The third second was burned down in 1755 was taken of stone, which was finished in 1750, was taken down about 1880 and has been re-erected on the Hoe at Plymouth The present lighthouse was completed in 1882 (Leontopodum alnimum) The 1 **EDELWEISS** 

was completed in 1882

Cleontopodium alpinum)

Cleontopodium alpinum)

General personal plant

Figure 1882

Of the order Compositae Native to mountainous

Telegons and found largely in Switzerland, it regions and found largely in Switzerland, it is easy of cultivation as a garden or rockery plant. The hairy leaves have a whitish woolly appearance and the flowers are greyish white clusters.

efusters

Rame of two British rivers The Eden English Eden rises in Westmorland rises in the English Eden rises in Westmorland and the Eden rises in Westmorland rises in the English Eden rises in Westmorland rises about and Carlisle into the Solway Firth It is about and Carlisle into the Solway Firth It is about and in Included and is a salmon stream for in the Societies and salmon streams in E from the junction of two North Sea by an Kinross shire and enters the North Sea by an estuary, after passing through Fifeshire estuary, after passing through Fifeshire

Kinross shire and enters the North Sea by an estuary, after passing through Fifeshire. Locality planted by Locality John Sea bode (Gen ii) It was watered by a river, and the names of whose fourfold branches have occasioned much research, one being commonic the names of whose fourfold branches have occasioned much research, one being commonly identified with the Duhnrates identified with the Delta in Scholars have variously located Eden in Mesopotamia, in Arabia and the Nile Dotta.

Born Anthony British statesman Born in 1897, he entered Parliament in 1897, he entered Parliament in 1923, became Parliamentary Private Secretary to Sir Austen Chamberlain, and was succest

1923, became Parliamentary Private Secretary to Sir Austen Chamberlain, Foreign Affairs, is under Secretary for Foreign Private Secretary for Sir Austen Secretary for Foreign Private Secretary for Under Secretary for Without Portfolio Lord Privy Seal and Minister without Portfolio Lord Privy Seal and Minister without Portfolio for League of Nations affairs (June, 1935) In 17 Company of Nations affairs (June, 1935) In 18 Company Lord Lord Private Priv

names of whose fourfold branches have associated with the Euphanes Scholar commonly individually the common of the

other rulers and was recognised as overlord by other rulers and was rowed on the Dee by six or eight of these lesser kings. He died, July 9, 975, and was buried at Glastonbury action of the Action Republic Prince called the Action Pr

9, 975, and was buried at Glastonbury Aethe

Edgat ling He was born in Hungary,

Bedward, the exile, and grandson of

Edward, the oxile, being then of

Edmund Ironside In 1086, being then orth

England, he was proclaimed king in the north

in opposition to William I

in opposition to William I

favour, however, were without success and he in opposition to William I The risings in his tavour, however, were without success and he tavour, however, were without success and he tavour, however, were without success and he tavour, he peace with the Conqueror He lived in Normandy for many Years, helped to resent his nephew, Edgar on the Scottish throne, his nephew, Edgar on the Scottish of as a wort on a Crusade and was last heard of as the risoner after the Battle of Tinchebral in 1100 prisoner after the Battle of Tinchebral in 1100 prisoner after the Battle of Tinchebral in 1100 prisoner after the Battle of Warvickshire It is the border of Oxfordshire and is noted for the indecisive battle fought here, the first in the Civil War, Oct 23 1642 Civil War, Oct 23 1642 English writer

Civil War, Oct 23 1642

Edgeworth Maria Black Bourton,
Sho then began
Sho then began
Sho then bound sho which hor
fame depends Casile Rackernt, The Alsente
Bourton With the Short Sho which hor
fame depends Sho also wrote Moral Tales for
fame depends and other books and finished
Found People and other books and finished
Found District of Middlesex It is

is on Blackford Hill The Infirmary and the Royal Scottish Academy occupy fine build-ings There are zoological and botanical gardens, and the city has some 60 parks and open spaces, including the Braid Hills In the old part, called Auld Reckie, are the historic thoroughfares of High St, Canongate, the Grassmarket and the Lawmarket

Notable houses include the one occupied by John Knox and the one in the Lawnmarket riven to the city by Lord Rosebery Other landmarks are the Mercat Cross, the Tolbooth, the Tron Church and the Groyfrians Churchyard Princes St, with its gardens, is one of the finest thoroughfares in Europe and there are some noble squares The city has memorials to Scott, Burns and other eminent Scotsmen

Apart from the university, Edinburgh has colleges of art, agriculture and veterinary science, and several for theological students The Heriot Watt Technical College is another centre of higher education Edinburgh Academy, founded in 1825, the Royal High School, Fettes College and Merchiston Castle School are Edinburgh Acaamong Scotland's leading public schools S Bride's and S George's are public schools for girls

Edinburgh is a banking and insurance centre, while much business comes from its official, legal and educational interests. Printothers are brewing, distilling, the making of chemicals and biscuits, and the proparing of rubber Race meetings are held, and the Scottish Rugby Union has a fine ground at Murrayfield

In the 18th century Edinburgh was a great intellectual centre, and this tradition has never been lost In 1802 The Edinburgh Review was started here, Sydney Smith being the first editor, and it was an influential organ until

it ceased publication in 1929

The University of Edinburgh dates from 1583

The main buildings occupy the site of Kirk o' Field, but others have been erected elsewhere for medical, scientific and other activities the medical school has a very high reputation high reputation

Edinburghshire Alternative name for the Scottish

county of Midlothian (qr)

Edison Thomas Alva American elecMilan, Ohio, USA, Feb 11, 1847, of mixed
Dutch and Scottish descent, in carly life he
telecraph operator From 1871-76 Duten and scottish descent, in carry life he was a telegraph operator. From 1871-76 he was Superintendent of the Law Gold Indicator Co. His inventive genius soon showed itself in the series of experiments he made with regard to the improvement of electrical transmission. His inventions include the automatic telegraph system the anadysis. an automatic telegraph system, the quadruplex and septuplex telegraph, the microtactimeter and many others, covering over a thousand patents. He improved the phonograph and kinetograph, and introduced the perculpage and prographene and prographene. acrophone and megaphone for amplifying sounds Incandescent lamps, electric lighting and electric railways owe much to him died Oct 18, 1931

Edmonton Urban district of Middle sex It is 8 m from the centre of London, and has two stations on the centre of London, and has two stations on the LNE Rive Upper Edmonton and Silver Street The River Lea passes through the district. Charles and Mary Lamb are buried in the parish church Cowper and Keats both lived here the former celebrating the Bell Inn in John Gilpin Pop (1931) 77,652.

Edmonton City and capital of Alberta, Canada An important point on the transcontinental railway system, and the banking and distributing centre for a large district, it stands on the N Saskatchewan River, 793 m from Winnipeg and 958 from River, 793 m from Winnipeg and 958 from Prince Rupert The city now includes Strath-cona It has huge meat packing plants and some manufactures Pop (1931) 78,829

English saint and king In AD 855 he became King of Edmund E Anglia In 870 he was taken prisoner by the Danes and, refusing to abandon the Christian faith, was put to death at Hoxne, Suffolk Later his remains were buried at Bury, which city grew up round his shrine and was named after him Bury St Edmunds He was made a saint, his day being Nov 20

saint, known Rich He was born Edmund English saint at Abingdon and became a priest. In 1234 he was appointed Archbishop of Canterbury, and for seven years worked to free the land from the rapacious favourites of Henry III In 1240 he left the country and died in France, Nov 16 of that year He was canonised in 1246 and his day is Nov 16 He is commemorated by S Edmund's College at Ware

Edmund King of the English Born about 922, a son of Edward the Elder and a grandson of Alfred the Great In 940 he became king, and reigned for six years, defeating the Danes and conquering Cumbria He was murdered at Pucklechurch,

Cumbria He was murdered at Pucklechurch, Gloucestershire, May 26 946,

Edmund King of the English, called Ironside A son of Ethelred the Unready, he was born about 981, and succeeded his father in 1016, but only reigned seven months, dying or being murdered on Nov 30, 1016 He won some fame by fighting against the Danes, but, beaten at Assandun in Essex, agreed to divide the kingdom with Canute Canute

Edom District in the south of Palestine Between the Dead Sea and the Akabah Gulf, it is a narrow, mountainous strip, 100 m long Its inhabitants, traditionally 100 m related to Esau, resisted the passage of the Israelites to Canaan, and were often at feud with Saul and his successors. Romanised as Idumaes, it accepted Judaism under the Maccabees The Herods were Edomites

Education Term in general use for physical training, especially of the young It comes from a Latin word meaning to draw out. There was some education in the ancient civilisations but it was never general and was civilisations but it was never general and was almost certainly under priestly direction Modern education began with the Greeks, whose system freed the human mind and introduced ideas which have profoundly influenced human thought No later age has approached them in their power of dealing with those branches with which they were familiar Greek education greatly influenced Roman education, and thus communicated its ideas to the medieval and modern worlds

With the establishment of Christianity in Europe, education became the province of the Church and owing to the close association of the Church with Rome, Latin was used as the

Church with Rome, Latin was used as the vehicle of thought. The combination of the Latin language and the Christian Church survives to some extent in the public school system of to day The Church was responsible not only for the early schools but for the early

's for

lahed

rail

noture

Park,

emith,

autho

those the

with

d and Mid-

from LMS

n its

sends 32,000

s and

with itional rood Thapel tional

Hill,

"Colin ed by

on the

king

i ilatial

" " Killiam

il aurch

universities Education was given by monks in schools connected with the monasteries, but the bulk of the boys and practically all the girls received no education

The Renaissance gave a great impetus to education and the 15th and 16th centuries witnessed the founding of many universities and schools, but education remained in the main as

In the 19th century, however, education was taken over by the State Made universal and largely secular, it was given to women in the same way as to men, it included a number of new subjects, largely the outcome of scientific and industrial developments Elementar education was distinguished from secondary Technical education was introduced The ol Elementary universities were thoroughly reorganised, and new ones were created Education sceme to

new ones were created Education seemer to take the place of religion, at least in W Europe, as the nations' driving power In Great Britain education was in we compulsory by an Act of 1870, and schools, called board schools, which later become council schools, were set up by the side of the existing church schools a rate being level for their support. For the wealthing class, the wealthing class. support For the wealthier classe the public schools for boys increased in number and size, and some were opened for girls education in the elementary school In 1891 was made free In 1902 the Church schools were given assistance from the rates In 1918 the school age was raised to 14, and ir '920 to '5, but the latter did not come into for 'f r election ment pledged

of 1935, however, the new themselves to raise the set. EDUCATION AND THE JL JICF OF \*\*\* CAREER In most cases the choice will be influenced, or decided, tunities and the means available within these limitations the choice wide, and competition so keen necessary that a decision should ÍR hed before formal schooling comes to £, 80 that the boy or girl may, in the la pursue the course which will give tages. e best This pursue the course which was given training and equipment for future verk. This is the more necessary as most of the "professions can only be entered after years of study on recognised and definite lires."

Specialised study for a particular or begins before the child has gailed ie knowledge and experience necessary to decide its own future, and decisions take 1 y the parent alone often lead to unhapplices and failure. The wise father therefore, will be considering his child's career from the early sel ol days, will discuss the matter with the child, eachers, and by continuous observation and the applica tion of our modern knowledge of ocational uon or our modern knowledge of vocational guidance will be ready to recog is such indications of a definite "bent' s may appear.

This does not mean that didre should begin specialised study early n their school down a council advision to their school.

days A sound general eduction is indis pensable and should be continued as ar as the means of the parent will pe nit, with an allowance for the period of special training—short or long according to the career chosen—which is cesential before the boy or girl can

become self supporting

The Elementary School —Education between the years of five and fourteen is compulsory in this country but there are several avenues by the there are several avenues by the men the obtained and continued. in this country but there are soveral avolutes by a which which this may be obtained and continued.

After the Nursery Schools, which are a comparatively new development for the period up for the tothe end of the fourth year the poorer chia, £1,2 will proceed to the Elementary School a. 1

thence in some cases to the Secondary School or to the newly established Central or "Modern" School, where it will remain until it is fifteen or older Facilities are provided at this stage for further technical and commercial training, and evening classes may be attended after the day's work is done

The Secondary School is reached from the Elementary School at the age of eleven or after, or the child may begin by attending one of the "Kindergartens" attached to the Secondary Schools Scholarships are now freely obtainable by examination which will pay the full fees for secondary education to the age of nineteen, and ra. 3 some contribution towards

i , iculars regarding both

i m , Schools and the fees fn. ep  $\mathbf{m}$ nte nen 43 required ( btained from the mat rther education in

Preparatory Schools -The parents can afford for it a Public School educa tion will usually begin in either a private or a preparatory school. There are may of then and a list with full particulars of the whom h w hor nor entee

found in the handbook—Schools
Wales and Scotland, which is p b
Messrs E J Burrow, 43 Kingsw WC 2 1 1849 I It is

The choice of a preparatory scho nearly always governed by the purwhich he is afterwards to go In private school it is well to take in tion its proximity to the child's hor he is to be a boarder or a day position of the school from a heaview, the qualifications of the tethe size of the classes

Classes in private schools are a

those in the ordinary council e sequently more attention can l individual children There is a private schools are inefficient, by many excellent private schools Prask whether the Principal is a Teacher, and should inquire clos health conditions-sanitation, vc rooms and the like

Children are accepted in prep private schools at five to seven 1 and they usually remain until the or thirteen, but some private sch education up to eighteen
The cost of sending a child to a

or private school may range from per annum, according to the sta school This includes board

school This includes board gained by letter to the headmaste Public Schools—For entrance to public schools it is necessary to matter many years before the crince in many cases there is the being elected. The age for entrance school is usually from 12 to 14 ye leaving age is about 18 to 19

A list of the public schools in Kingdom will be found in The P Year Book which is published 1. Book Press 31 Museum Street, L also gives a complete list of sch.

ofable Schools fhe Year lon This lon

a public school 6 🐠 nnum (entrance 1 Juse fees, £155) to

, , anay cease after the

First School Certificate has been taken at the age of sixteen or seventeen or it may continue for a further two years in order that the Higher Certificate may be obtained After leaving school specialised training may take the form of an apprenticeship or attendance at Business, Technical or Training Colleges, in some of which a degree may be taken for such purposes as teaching

The Universities —Further formal education may be obtained at one or other of the "finishing schools" at home or abroad, but the usual procedure after taking the Higher Certificate (in Scotland, after the "Preliminary Examina-

(in Scotland, after the "Prenminary organization") is to enter a university of the Every university in the capture of the capture of the separate of the separ

The cost of a University Course varies very widely, from about £30 per annum for tuition and fill main for green youring term time at Oxford and Edi For annum for tuition and full main for green youring term time at Oxford and Edi For annum for tuition and full main for green youring term time at Oxford and Edi For annum for tuition and full main for green your form the definite control.

centre, in intended career, since, besides the bestded the choice of a university Mupon it. Thus certain branches of official. ing an Others and applied science are best taken chemics cial university Oxford and Cam-courses leading to higher posts in ervice, in teaching, and in the rubber Scottish Murray ides giving preliminary training in aw and certain technical branches, In th Intellect ! zincering, forestry and agriculture been lo was et

first edi

1583

it cease "

Kirk o'

elsewher activitie

Edir

county Edis

Milan, Dutch 😘

a eaw พนะ

be  $ma\bar{c}$ 

an aut

thousa (

רמואד

he Indicat' sbowed

Tion Board of In England a Males a body set up in 1895 can orducation It took over the duties co discharged by a committee of the tuil Its president is a member of the "! it has a large staff of inspectors ' ificials The offices are in Whitehall, high rej 4

vising education in Scotland there nent under the Secretary of Scotland In Street, Edinburgh Each of the in parts of the British Empire has on department In most foreign io mertion is controlled by a depart-તા( ન્ત**te** 

Lake of Africa formerly known as the Albert Edward Nyanza in as the America and was discovered by a train Africa and was discovered by 1889. It is 44 m long, a channel 1889. It is 44 m long, a channel as the north-east. with Lake George to the north-east. cleetric at d King of the English, called the A son of Alfred the an aut born about 870 and early began facting to father in the work of government - 39 chosen king and he reigned until successful in enlarging his kingdom thed north to the Humber and both the Danis a Mercia and the Welsh submitted

Edward Kinr of the English, called the Martyr Born about 863, he was a son o, King Edgar When Edgar died in 975 Fdward was crowned by Dunstan, but the property of the was much red, March 18, three years later be was much red, March 18, at Corfo her Elfrid 978 "luja " mother 50m 48 Ethelred to be Li. bury became a pl regarded as a saint, ...

Edward King of the English, called the Confessor A son of King Ethelred the Unready, he was born in 1005 From 1013 to 1041 he lived in Normandy In 1041 he crossed over to England and was chosen king in succession to his half-brother. Hardicanute He reigned for 25 years devoting most of his time to religious matters He built the first abbey at Westminster He died Jan 5, 1066, and was canonised in 1161 His day is Oct 13

Edward I. King of England Born at Westminster June 17 1239 Born at he was the eldest son of Henry III He fought against the rebellious barons who took him prisoner at Lewes in 1264. He escaped from Hereford by a trick and in 1265 defeated Simon de Montfort at Evesham. Later he went on, a crusade and during his absence in 1272

became Ling

Edward returned to England in 1274 reign of 25 years marks him as a strong and wise ruler He conquered Wales and Scotland, but won his most enduring fame by calling the Model Parliament of 1295 and by his improvement. ments in the laws and legal system He died at Burgh-on ands, while marching to deal with a rising in Scotland July 7 1307 Edward's first wife was Eleanor, daughter of the King of Castile, to whom he erected memorial crosses in several towns His second wife was Margaret, daughter of Philip III of France

Edward I 11: King of England. The son at Caernard.

Al 25: 1284, and was created prince to be 19: 2 title Coming to the throne 'or made peace at once with Scotland, 1 of France His reign of 20 years was -h i the dominance of favourites and the co i di revolts of the nobles After the Bannockburn in 1314 Thomas, Earl Batti of Lanz ter, secured control of affairs. He was f made death in 1322 and the king's next favour's 4 the Despensers, were supreme for a time "Their overthrow was due to the queen, who collected some followers in France and landed in Suffolk The king was deposed and, on Sept 21, 1327, was murdered in Berkeley Castle His young son, Edward III succeeded hun

Edward reIII. King of England. A son of Edward II, he was born Nov '13, 1312 He became king in Jan, 1327, and in 1330 he put a quick end to the usubped authority of his mother Isabella and Roder Mertmer His reign of 50 years was chiefly obcupied with the French war and was marked by the victories of Cricv and Politiers The Treaty of Brétignv gave him extensive possessions in Prance In 1328 he married Philippa of Palnault Their family included the Black Prince, who died before his father, and the Dukes of Clarence York and Lancaster Edward died June 21, 1377 Edward died June 21, 1377

Edward Well June 21, 1377

mitted

led the April 23, 1442, and was the eldest son of Richard. Duke of York. He early began to died in fight for the Yorkists, and in 1460, on his father's death in battle, became their leader after his victory over the Lancastrians at Mortimer's Cross in 1461, he became king In 1469, owing to the desertion of the Earl of Warwick his mother's brother his position became precurous and he left England, but have the form returned and crushed his foes at Barnet. goon returned and crushed his foes at Barnet

EDWARD V

and Tewkesbury In 1464 Edward married Elizabeth Woodville He died April 9, 1483

Elizabeth Woodville Westminster, Nov 2, 1470, Edward V. Westminster, Nov 2, 1470, Westminster, Nov 2, 1483, Westminster, Nov 2, 1470, Westminster, Nov 2, 1470, Westminster, Nov 2, 1470, Westminster, Nov 2, 1470, Westminster, Nov 2, 1483, W Edward V. King of England Spring of Edward V. Westminster, Nov 2, 1470, Westminster, Nov 3, 1470, Westminster, Nov 3, 1470, Westminster, Nov 3, 1483, Nov 3, 1470, Westminster, Nov 3, 1470, Westminster, Nov 3, 1483, Nov 3, 1470, Westminster, Nov 3, 1470, Westminster, Nov 3, 1483, Nov 3, 1470, Westminster, Nov 3, 1483, Nov 3, 1483

Westminster Abbey

Edward VI. at Hampton Court, Oct at Hampton Court, Oct at Hampton Court, Oct I and I and I and I and I and I are Seymour He became king in Jan 1547, I and I and I and I are seymour He became king in Jan 1547, I are seymour He became king in Jan 1547, I are seymour was ruled first by the Duke of the country was ruled first by the Duke of Somerset, the king's uncle, and then by the Duke of Northumberland Protestant religion the establishment of the Protestant religion the establishment of the July 6, 1553 Edward died at Greenwich, July 6, 1553

Edward died at Greenwich, July 6, 1553

Edward VII King of Great Britain and Ireland Born at and Ireland Born at leidest son and second child of Queon Victoria and Albert of Saxe Coburg, and was named Albert Edward Ho passed some time at the Universities of Edinburgh, Oxford and Cam bridge and travelled a good deal Ho was lorded Prince of Wales and Duke of Cornwall bridge and travelled and these titles he held goon after his birth and these titles he held

created Prince of Wales and Duke of Cornwall soon after his birth and these titles he held for nearly 60 years

In 1863 Albert Edward married Alexandra, doubter of the prince who afterwards became In 1863 Albert Edward married Alexandra, daughter of the prince who afterwards became King Christian IX of Denmark They lived at Marlborough House, London, and in Norfolk, on a estate at Sandringham bought for the Prince On account of the queen's retirement. on an estate at Sandringnam bought for the Prince On account of the queen's retirement, the Prince and Princess of Wales were for nearly 40 years the acknowledged leaders of English society The Prince entered into every form of social activity. bis love of the Turf being form of social activity. English society The Prince entered into every form of social activity, his love of the Turf being form of social activity, his love of the Turf being the leading men in Europe, but his mother did not allow him to take any considerable sharp not allow him to take any considerable sharp in affairs of State In 1871 he had a serious in affairs of State In 1875 he visited India in less typhoid ferer in 1875 he visited India On Jan 22. 1901, the Prince became King and

illness typhoid fever in 1875 he visited India illness typhoid fever in 1875 he visited India On Jan 22, 1901, the Prince became King and Comperor, taking the name of Edward 1912. The proposition postponed from June 28 1902. The second of a postponed from June 28 1902 wing to an attack of appendicitis, took place on Aug 9 1902. His short reign was marked by in Aug 9 1902. His short reign was marked by itself especially in carnest efforts to preserve a keen interest in foreign affairs, which showed relations with Franco were especially friendly neace. He went abroad a good deal and relations with Franco were especially friendly neace. He went abroad a good deal sand the discharged his many kingly duties with the discharged his many kingly duties with the tat and dignity which were his outstanding unalities, but one or two events in domestic austications was taken ill with broachitis caused him keen anxiety in April, 1910, the King was taken ill with broachitis and dignit in London on May 6 He was buried at politics caused him keen anxiety In April, 1910, the King was taken ill with bronchitis and 1910, the King was taken ill with bronchitis and 1910, the King was taken ill with bronchitis and 1910, the King was taken ill with bronchitis and 1910, the King was taken ill with bronchitis and 1910, the King was taken ill with bronchitis and 1910, the King was on the son of the own witten by Sir windsor, and many memorials to him have died in London and worked for been erected. His Life has been written by Sir windsor, and three daughters, Princess Sidner Lee and three Princess Of two Louise, Duchess of and three Princess Of two Louise, Duchess of Queen of Norway of Liberal VP He died April 22 1911 Edwards, and Princess Maud Queen of Norway 1892, and Princes John died the day after he was born and Prince John died the day after he was born and Prince of Office of Control of George V, he was born at the Wary Ward House at Taylstock Pickwards Settlements of Direction of Control of Con

EDWIN

duties He went to Canada, India and Japan, then on a tour to Australia and more than once to Africa for hunting In 1930 31 he visited S America and opened the exhibition at Ruenos Aires giving on his return his improse. Buenos Aires, giving on his return his impres-

Buenos Aires, giving on his return his impressions to business men of trade openings in S America On the death of his father, King George V (Jan 20, 1936), he succeeded to the

tinous interest in many forms of national activity. He followed the fortunes of his agritudtarial estates in the west and himself bought a farm at Lenton, near Nottingham, and a farm at Lenton, near Nottingham, and ranch in Canada He was fond of fiving and had his own aeroplane and landing ground at he was fond of fiving and his residence, Fort Belvedere in Windson's residence, Fort Belvedere in Albands and Albands and Albands and Canada of golf. The numerous journeys a good deal of golf. The numerous journeys which he made to attend public functions and meetings testified to his interest in the welfare As Prince of Wales he took a keen and con which he made to attend public runctions and meetings testified to his interest in the welfare of the people Some at least of these activities will doubtless be modified by his accession to

the throne

Edward English prince, called the Black eldest son of eldest son of Edward III he was born at Woodstock, June 15, 1330 He was made Prince of his time 1343 and fought at Crécy Most of his time was passed fighting in France, where his father handed over to him the province of Aquitaine He was at Politiers and led an expedition into Spain in 1367 In 1371 he returned to England and took some part in public affairs, until on and took some part in public affairs, Spain in 1367 In 1371 he returned to England and took some part in public affairs, until July 8, 1376, he died at Westminster He married in 1361 Joan Holland, the fair maid of Kent," and left a son, later given for Kent, and left a son, Medal heroism in civil life Edward Medal heroism in civil life that a from 1907 The ribbon is dark blue

Edward Wiedal heroism in civil life heroism constant with a narrow yellow edge. The medal which with a narrow yellow edge. King Edward bears the figure of the founder, King Edward bears to miners and quarrynen bears herois actions of turther herois actions and bars are added for further herois prelate and bars are added for further welsh prelate and bars are added for further welsh prelate to the figure of the figure o 1889 Bishop of St Asaph He took a leading part in the campaign against the discostabilishment of the Church in Wales and when it was effected was chosen the first archbishop under the new conditions.

father Driven out by the King of Bernicia, in 617 he returned, killed his foe in battle, and united Bernicia and Deira into the Kingdom of Northumbria He married Ethelburga, daughter of the King of Kent, and in 627, under her influence and that of Paulinus, became a convert to Christianity He was killed in battle at Hatfield Chase, Yorkshire, Oct 12 633 when fighting an army led by Penda, King of Mercia Edinburgh was founded by and named after him

Eel Family of soft-rayed fishes with long snake like bodies They lack ventral fins and external scales Their life history is still something of a mystery Widespread in temperate fresh water, the common European cel, Anguilla rulgaris, is greenish-brown, and silvery beneath The female, which anglers call the sharp nosed, measures 3 to 4 ft, the male, called the broad nosed, being much smaller The females inhabit rivers and ponds, descending seawards in the autumn, sometimes overland, for spawning in mid ocean, sea-dwelling males do not return. The The eggs produce tiny ribbon like creatures, once separately named Leplocephalus, or glass fishes, and now proved to be the larval forms from which civers or cel fry are derived. In Great Britain there are close seasons for elvers and mature cels See Conger

Eel Grass Popular name of two diverse genera of aquatic herbs Zostera marina, usually called cel grass in the USA, grows on gently sloping shores in temperate regions. It serves as a non-conductor wrapped in burlay, in artificial refrigeration

Valisheria spiralis, or water celery, grows in the warmer parts of both hemispheres. It is a short-stemmed plant, often cultivated in aquaria. Its thread-like flower stalks, coiling spirally, draw the flowers under water to mature the fruit. The canvas-back duck and the terrapin cat it.

Eel Pie Island Small island in the Twickenham It is a popular resort for pienic and boating parties, and an angling centre

Efficy Figure or likeness The term is sovereign or other person on a coin It is also applied to the figures sculptured on tombs Another efficy is the figure of a detested person made in order to be burned, e.g., Guy Fawkes

Effusion A pouring forth The term is used in pathology for an escape of a fluid into the tissues or cavities of the body, as seen in net pleurist Effusion also results from inflammation and occurs in dropsy

Egbert King of Wessex The son of a his youth at the court of Charlemagne In 802 he was chosen King of the W Saxons During his reign of 37 years he conquered Mercia and other parts of England, and was the first king who was recognised by the whole country He died in 839

Egeria Legendary nymph in Roman mythology Her counsel and advice were said to have aided and influenced Numa Pompilius, King of Rome Her lamenta-tions after the death of Numa having disturbed the rites of Diana, she was changed into a spring To day Ezeria is a name symbolising any woman who gives mental stimulus and assistance to a man in his work.

Egg Body usually oval produced by birds, insects, reptiles and certain other

creatures to reproduce their kind Eggs are produced by the female after fertilisation by the male Though all animal life, except the very lowest forms, starts in the egg, in the case of nearly all mammals (the platypus is a notable exception) the development of the egg takes place within the mother

Eggs are laid by snails, shell fish and other molluses, also by insects and fishes Most of the reptiles, including crocodiles, lay eggs, as

the reptiles, including crocodiles, lay eggs, as do all the birds Many eggs are enclosed in a hard shell, but those of fishes, frogs, etc., that are laid in the sea and wet places, are not. The most familiar kind of egg is that laid by the bird. These eggs vary much in size and colour, but all possess the hard shell. The largest are the eggs of the ostrick. In many cases the colouring is protective. The collecting of birds' eggs is a popular hobby. In Britain the law forblids the taking of the eggs of yild birds. law forbids the taking of the eggs of wild birds at certain seasons

The egg of the ordinary fowl is a popular and nutritious article of food and millions of fowls are kept in order to lay eggs for the market To a much lesser extent the eggs of the duck, the goose and the ployer are used for food, but the sale of ployer's eggs has now been forbidden by law In 1932 the eggs of the negatin were introduced into London the penguin were introduced into London restaurants

In England the consumption of eggs is estimated at 170 per person per year, and in 1931 3,111,024,120 were imported into Great Britain, 3,111,024,120 were imported into Great Britain, in addition to dried and liquid eggs valued at 22,718,800 At Milford, Surrey, is a farm where, under the auspices of the National Utility Poultry Society, egg laving tests are held, to determine the laying qualities of the various breeds Under the national marking scheme imported eggs must be marked with the name of the country of origin

Egglestone Village of Yorkshire (NR) and from Barnard Castle The beautiful cruciform church was once part of Egglestone (or Eglistone) Abbey Near is Rokeby Hall

Egham Urban district of Surrey It is 21 m from London by the S Rly The church has associations with the Denham family The Royal Holloway College for women is here, and the Holloway Sanatorium Pop (1931) 15,915

Eglantine Poetic name for the sweet brian (Rosa rubiginosa) It is of bushy growth, the branches being thickly set with hooked prickles and bristles, the flowers are small and pink, and the foliage fragrant It is largely grown in gardens, and is also found wild in some parts of Britain The name is sometimes applied to the Austrian briar (rosa eglanteria)

Eglinton Village of Ayrshire It is 2 m from Irvine and gives the title of earl to the family of Montgomerie In 1508 Hugh Montgomerie was made Earl of Eglinton and the title has been since held by his descendants. Archibald, the 13th earl, was made Earl of Winton and the present earl holds the double title The earl's eldest son is called Lord Montgomerie Eglinton Castle, the family sert, was built about 1800

Egmont Count of Flemish nobleman Born in Hainault Nov 18, 1522, he was baptized as Lamoral, became a soldier and saw service with Charles V Later he served Philip II of Spain, the ruler of the Netherlands as an ambassador and was made Governor of Flanders In 1567 he was arrested

by Alva and sentenced to death With Count Horn he was beheaded at Brussels, June 5, 1568 With Count **EGMONT** 

Horn he was beheaded at Brussels, June 5, 1568

Figmont Earl of Irish title held by the Irish title family of Perceval Rart (1833 1748), in 1733 to Sir John Perceval, Bart (1833 1748), in Irish Principal First Lord of the Admiralty, 1761 66, and was of Georgia. John, the 2nd earl (1711 70) was first Lord of the Admiralty, 1761 66, and was the father of Spencer Perceval, the Irish 1873, the father of Spencer Perceval, the Irish 1873, in Irish title for years as a rancher in Canada, until he lived for years as a rancher in Canada, until he succeeded as 10th earl in 1929 He died from succeeded as 10th earl in 1929 and Irish the effects of a motor accident on May 16, succeeded as 10th earl in 1929 He died from the effects of a motor accident on May 16, 1932, leaving an only son The family seat is 1932, leaving an only son formerly it was 1900 Court, Midnust Egmont is a village in Co Cork, Irish Free State

Egoism Theory of self interest or seinsh an egoist is a person who aims at securing profit or pleasure for himself regardless of the interests or feelings of others in philosophy, it is the doctrine that we have no knowledge of anything save our own existence A similar word, egoism, means talking or thinking inordinately about oneself talking or thousand the control of the contr

Egremont Town of Cheshire A re and Birkenhead, it stands on the Mersey, 2 m from Birkenhead, with which it is connected by rom Birkennead, with which it is connected by railway. Steamers go regularly across the Mereoy to Liverpool, and there is a promenade New New Parkers

nersoy to Liverpool, and there is a promenade long New Brighton

Egremont district of Cumberland I.

Stands on the Eden, 5 m from Whitehaven

The title of Earl of Egremont, borne by the Inally of Wyndham from 1749 became extinct family of Wyndham from 1749 became extinct who died in 1837, lett Petworth House and his who died in 1837, lett Petworth House and his who died in 1837, lett Petworth House and his who died in 1837, lett Petworth House and his who died in 1837, lett Petworth House and his who died in 1830 small white had Lord Leconfield in 1850 small white Brete herons, with long narrow, heron webbed plumes species of narrow, heron herons had the little egret, a rare British visitant, and the inland waters, especially in India, and populate inland waters, especially in India, and are also found in S Europe and Asia, from Spain to Japan.

Spain to Japan.

Egypt Wingdom of Africa Divided into Agent of Agrica Divided into Mandy Property of Mandy Propert

declared king There is a constitution on the European model The parliament consists of a Senate and a Chamber of Deputies and the Ministry is responsible to it. The members of Ministry is responsible to it. The members of the chamber are elected by universal suffrage for five years. In 1923 King Fund suspended to constitution and ruled for a time through his ministers alone.

his ministers alone
The State religion is Mohammedanism The State religion is Mohammedanism but the theorem are many native Christians, chiefy Copis the official language is Arabic. The country last its own country of justice, but foreigners are exempt from their jurisdiction

ECONOMICS The chief product is cotton By means of irrigation works the dam at Assuan and barrages at Assut, Nag' Hammadi, Assuan and barrages at Asslut, Nag' Hammadi, Esna and Zifta, much additional land has been brought under cultivation. The value of the cotton crop varies, but in 1931 its export was cotton crop varies, but in 1931 its export was vorth over £20,241,677, other articles being responsible for a further £3,411,758. Wheat, I responsible for a further £3,411,758 barley and other careals are grown and animals barley and other careals are grown and animals. responsible for a further #3,411,408 wheat, barley and other cereals are grown and animals are kept, but everything is subservient to

are kept, but everything is subservient to cotton growing

The unit of currency is the plastre, worth about 2½d It is coined in silver, bronze or nickel A national bank issues paper money and there is an agricultural bank. The ardeb, the unit of capacity is equal to 43 555 gallons. The unit of measurement is the feddan, equal to just over an acre

to just over an acro
Egypt has an army about 14,000 strong To
Egypt has an army about 14,000 strong mainprotect the Sucz Canal Great Britain maintains a small garrison including an air force
tains a small garrison about 490 000 000
Egypt has a debt of about 490 000 000
Egypt has a debt of about 490 000 of civilisa
ARCHAEOLOGY AND HISTORY
famous as perhaps the earliest home of civilisa
famous as perhaps the earliest home of which are the famous as perhaps the earliest home of civilisation, the best known remains of which are the tion, the best known remains of which temples pyramids, but there are also remains of temples and other buildings that prove the possession, and other buildings and, of a wonderful artistic thousands of years ago, of a wonderful artistic thousands of years ago, of a wonderful artistic skill to say nothing of a truly marvellous knowledge of building and engineering The marnificent temple remains at Karnak and the MHOWNEGED OF DIMERING RIVER CHARLES THE MIGHT STREET THE

magnificent temple remains at Karnak and the discoveries in the tomb of Tutankhamen are some of the many evidences of this culture. The ancient Exyptians had too, a religion with elaborate rites and strong in the beliefs in the immortality of the soul, and an extensive in the immortality of the soul, and an extensive in the immortality of the soul, and an extensive in the immortality of the soul, and an extensive in the immortality of the soul, and an extensive in the immortality of the soul, and an extensive in the immortality of the soul, and an extensive in the immortality of papers in the industrial attained were skilled in the industrial stone of Egyptian civilisation may have begun stone to Egyptian civilisation may have begun have scholars have divided its course into civilisation was prehistorious withous written history of Egypt begun with the second At this time hiemphis was with the second At this time hiemphis was with the second At this time hiemphis was of the third civilisation, dating from about the country's capital the country of the kings of the first which art flourished exceedingly, but in this respect of the kings of the fourth civilisation art flourished exceedingly, but in this respect it it was far surpassed by the fourth civilisation to the first the great pyramids were built and the country was rich and prosperous Egyptian at it was fur surpassed by the fourth civilisation in this the great pyramids were built and the country was rich and propherous. Travation are country was rich and prosperous Egyptian art country was rich and prosperous Ligyptian art product to highest point and probably only one age in the world's history, that of Greece in the time of Pericles can compare with it in the magnificence and volume of its works of agree.

it in the magnineence and volume of 148 works of art

Decay began about 3600 BC with the fifth civilisation during which the Syrians invaded the land More serious was the arrival of the the land More serious was the arrival of the Hyksos, a people who dominated Egypt for about 1000 years They were expelled by the land 1000 BC to time from which about 1000 years they were expelled the sixth civilisation dates. Constant was about 1600 BC dates. Constant with Syria, although sometimes successful in the sixth civilisation dates. Constant with Syria, although sometimes successful in the sixth civilisation dates. Constant with Syria, although sometimes successful in the sixth civilisation with Gyreat the country's power with greatly weakened the country's power with greatly weakened the country's power with dates from 664 the Persians conquered which dates from 664 the Persians conquered the land and soon Alexander the Great repeated this feat The last of the dynasties (XXX) onder the service of the se

the iana and root at the dynastics (AAA) this feat. The last of the dynastics (AAA) ended in 340. For the next 300 years Egypt was under the rule of the Ptolemics and Greek influence was rule of the Holemics and Greek influence was before until the death of Cleopatra, the last group until the death of Cleopatra.

followed until in 1517 it was subdued by the Ottoman Turks It remained a province of Turkey until selzed by Napoleon in 1798 Mehemet All became ruler in 1805 and his descendant is now on the throne.

Mehemet and his successors were vassals of Turkey and were called Khedives from 1867 until 1914, when the title of sultan was used by Hussein Kamil, brother of Fuad Their misrule led Great Britain to invade Egypt in 1882, and from then until 1914 the country's affairs were controlled by British officials In 1914 the controlled by British officials In 1914 the British made Egypt into a protectorate and this lasted until 1922, when the country was granted its independence Actually, however, there was still a certain dependence on Britain, there was still a certain dependence on Britain, which the Nationalist party in Egypt acutely resented This condition was much aggravated in the winter of 1935-36, when King Fuad restored the Democratic Parliamentary Constitution of 1923, thus increasing the power of the Nationalists as the dominant party Serious rioting followed, at the end of Jan a crisis arose and a "neutral" government was formed to negotiate with Britain formed to negotiate with Britain

Egyptology Study of Egyptian and literary treasures, uncarthed in the Nile valley and elsewhere, have reconstructed the artistic, economic, literary, social, political and religious life of ancient Egypt The Egypt Exploration Society, founded in 1882, the British School of Archaeology in Egypt, founded in 1896, and other learned societies and universities, pursue this branch of research

Ehrenbreitstein Town of Germany On the right bank of the Rhine opposite Coblenz, it stands on a rock overlooking the Rhine and Moselle in a position that has been fortified since Roman times, and has a trade in wine It was taken by the French and destroyed in 1799, rebuilt 1816-26 and modernised after 1870 Until 1918 it was one of Germany's strongest fortresses Pop 5500

Ehrlich Paul German bacteriologist Born in Silesia, March 14, 1851, he studied medicine, and did research on aniline dyes He treated diseases by chemical intentions and in tall decreases by chemical infections, and in 1910 propared an arsenical compound, "salvarsan" or "606" (the 606th compound he had tried), which was a cure for syphilis He did important work on immunity, and shared the Nobel Prize for Medicine in 1908 He died Aug 20, 1915

Eider Duck (Somateria) Genus of northern sea ducks which line their nests with down Dwelling on N Atlantic coasts, the common eider duck, S mollissima lays green eggs in nests on the ground The down valued for stuffing quilts and other than the collected in Lealand and other and cushions, is collected in Iceland and other localities where the bird is practically domesti-cated It breeds in the Farne Islands

Eiffel Alexandre Gustave French gineer Born at Dijon, Dec. 15, 1832 he was one of the first engineers to use compressed air calesons for building bridges and the inventor of movable section bridges His most important works include the bridge over

of her line In 30 BC Egypt was included in the Roman Empire and it remained subject to Rome or Constantinople until AD 616
In 641 it was conquered by the Arabs, and was under the caliphs of Bagdad until 868 A disturbed period without stable government followed until in 1517 it was subdued by the Included in Statue of Liberty in New York Harbour and the Eiffel Tower, Paris, designed for the Exhibition of 1889 This colossal iron structure, 984 feet in height, is used as a meteorological and broadcasting station (1445 7 M., 13 kW) disturbed until in 1517 it was subdued by the Included Included

Eigg Island of the Inner Hebrides, Scotland It is in the county of Inverness-shire, and lies about half-way between the Island of Rum and the mainland, it is 6 m in length The Scuir of Eigg a hill on the Island, is 1289 feet in height Pop 181. Albert German scientist Einstein was born at Ulm, May 14, 1879, and educated at Munich and Zürich After being engineer to the patent office in Berne, he was appointed Professor at Zürich University in 1909 In 1914 he moved to Berlin A remarkable tower was built at Potsdam for him to work in, and in 1915 he brought his famous theory of relativity before the Academy of Sciences in Berlin In 1921 he was awarded the Nobel prize for physics and visited England he received the Copley visited England Medal in 1925, the gold medal of the Royal Astronomical Society in the following year, and also honours from various other countries In 1931 he lectured on his theories at Oxford, and in 1933 at Edinburgh

The main ideas put forward by Einstein are that time is a co ordinate of space, that distances in the universe are relative, not absolute, and that the universe itself is constantly expanding or contracting in size prominent pacifist and zionist He became a

Eisenach Town of Thuringia, Germany the Hörsel and Nesso, 32 m west of Erfurt and close to the Thuringian Forest Spinning, Town of Thuringia, Germany wagon building and the manufacture of beer, cigars and potterv are the chief industries Near is the Wartburg associated with Luther Until 1918 the palace was the residence of the Duke of Saxe-Weimar-Eisenach Pop 43,400

Eisleben Town of Germany It has a chief centre of the neighbouring copper and silver mines Luther was born here, and the house in which he died is now a museum Pop 25,000

Eisteddfod Welsh bardic congress It is held annually in different towns for encouraging national music and literature Sprung from the Gorsedd or National Assembly, it is mentioned in early records It was held in 1567, reappeared occasionally after 1771, and has been held almost annually since 1819 It usually lasts three or four days The chief bard is chosen and crowned, and prizes are awarded for choral singing, instrumental plaving, especially harping, and lyrical compositions and essays Firsterin hurry Town of Soviet Russia Ekaterinburg Town of Soviet Russia 175 m from Perm, on the Trans-Siberian Rly It was founded by Peter the Great and named after his wife Catherine It is a great mining centre There are two cathedrals and a university Here, in July 16, 1918, the Tzar Nicholas II and his family were murdered The Series authorities have changed the page The Soviet authorities have changed the name to Sverdlovsk Pop 60,000

Ekaterinoslav City of the Ukraine, now known as Dne propetrovsk (g v )

Elan River of S Wales Only 15 m long it rises in Cardiganshire and flows the Garonne at Bordeaux in 1858, the dome of into Radnorshire and Brecknockshire before the Nice Observatory, the framework of the it joins the Wye below Rhayader The valley

has been dammed, and three huge reservoirs built to hold the water from which Birmingham ELAND

draws its supply

Eland (Genus of large African antelopes The largest, also the sentimes stands nearly 6 ft. at the withers of the server like horns occur in both sexes like horns occur in both sexes like horns occur in hat the eland Except on small reserves in Natal the eland in the disappeared from S Africa Herds still has disappeared from S Africa Herds still roam north of the Zambesl and other species are found farther north

Elandslaagte Village of Natal It is On Oct 21, 1899, a British force under Sir John On Oct 21, 1899, a British force under Sir John Salled out of Ladysmith to attack a Boer position in the hills near Elandslangte, a Boer position in the hills near Elandslangte, which was taken with a loss to the British of which was taken with a loss to the British of whom the Boers lost some 250 about 40 men, the Boers lost some 250 are found farther north

Elasticity expresses a property of matter whereby a substance may be elongated by tension without remaining permanently distorted after the removal of the constituent that is the cohesion between the constituent. distorted inter the removal of the constituent. That is, the cohesion between the constituent represents of an electic substance is sufficient to runt is, une concesion perween the consument particles of an clastic substance is sufficient to particles of an clastic substance is sufficient to revent permanent strain or distortion, and particles return to their permanent strain or distortion, and particles return to their resistance to change of shape, and clasticity of form or bulk, or resistance to compression are of bulk, or resistance to compression are properties of solids, but liquids having no properties of solids, but liquids having no shape, can only resist compression, a property shape, in a high degree by gases.

Elba belongs to Italy, covers 90 sq m and from the mainland at Plombino Forto is 6 m from the mainland at Piombino Porto, Ferrajo is the capital Many of the inhabitants, are fishermen. Here Napoleon lived in exile, Nay, 1814, to Fob, 1815 Pop 30,500 May, 1814, to Fob River of Europe It rises in the River of Europe It rises in the River of Europe Roundains of Bohemia, Riesengebirgo Mountains of Bohemia, and enters the North Sen

PAIDE Riesengebirge Mountains of Bohemia, passes into Saxony, and enters the North Scanear Cuxhaven It is 725 m from source to mouth and its estuary is 70 m long On it are mouth and its estuary is 70 m long On the are prague, Dresden Magdeburg and Hamburg and its is navigable for small vessels nearly as far last passes along its lower course shipping passes along its lower course shipping passes are the Havel, Saale, Moldau Eger and Mulde and it is connected by canal Eger and Mulde and other German rivers with the Oder, Trave and other Germany In the

Elberfeld Town of German In the stands on the Wupper 16 m from Dasseldor recently linked with Barmen is locally called Wuppertal Elberfeld An important railway centre its textile industries have caused it to Wuppertal Eiberfeld An important railway centre, its textile industries have caused it to products are chemicals and hardware Population 1930 405 515 [LBERFELD POOR RELIEF SYSTEM] Eiber feld given its pages to a system of poor relief

ELBERFELD POOR RELIEF SYSTEM Elber relief gives its names to a system of poor relief led gives its names to a system of poor relief led gives its names to a system of poor relief led gives its names to a system of poor relief led gives its names to a system of poor relief led gives its names to a system of poor relief led gives its names to a system of poor relief led gives its names to a system of poor relief led gives its names to a system of poor relief led gives its names to a system of poor relief led gives its names to a system of poor relief led gives its name to a central committee for cases which was form its divided into of emergency there are almoners who can give who report to a central committee the purpose and the scheme of mende a card Chancellor, and in 1821 led made an card Chancellor, and shows made an card Chancellor, and sho feld gives its names to a system of poor relief which was started here This consists in a care ful examination of each case by unpaid workers

goods There is a good harbour Elbing was founded in 1257 and was long a member of the Hanseatic League Pop 68,200

Elbow in man, a joint Joint formed by the articulation of the humerus or upper arm bone with the radius and ulna, the outer and inner forearm bones. A prominence outer and inner forearm bones. A prominence terminating the humerus fits into a cavity of the disk shaped head of the radius, whose day the disk shaped head of the radius, whose day articulates with a deep S shaped notch in the articulates with a deep shaped notch in the forearm A bony knob on the ulna, rising bohind the humerus, prevents the joint from bending hackwards. ligaments, help to hold the bones together, and igaments, neip to noid the bones together, and are lined with a synovial membrane producing a lubricating fluid. The elbow may be dis located forwards or backwards

Elburz length is about 600 m, breadth about 200 Mt Demayend a dormant volcano,

about 200 ait Demayend a dormant volcano, is the highest peak (18,000 ft) mount Elburz is the highest point in the Mount Elburz is the highest point in the Caucasus, the loftlest of its two peaks rising to Caucasus, it was first ascended in 1829 In the Republic of Georgia, Elburz is sometimes and of the control of the c shrubs and

Republic of deciduous shrubs and spelled Elbruz of deciduous shrubs and spelled to the Elder trees (Sambucus) allied to the Elder trees are native to all temperate are native to all temperate of the common S spelled Elbruz gueider rose They are native to an temperate regions except S Africa. The common S 10 ft high with cream coloured flowers growing 10 ft high with cream coloured flowers growing in flat clusters. The purplish black berries are in flat clusters. in that clusters the purphsh black perries are used for home made white, and elder flower water is used in confectionery Dried cluder water is used in confectionery Dried elder The pith balls serve for electrical experiments and pith balls serve for electrical experiments and wood makes weavers' shuttles, skowers, and shoemakers' pegs Several cultivated forms of elder occur in shrubberles, eg, the golden, of elder occur in shrubberles, eg, the golden, and scarlet berried cut leaved and scarlet berried

Cut leaved and scarlet berried

Ruler or officer in some civil and collection cecleslastical systems of government it is analogous to the Roman season and the English aldernan The term was used by the Jows and in the Old Testament there are frequent references to elders or leaders of are frequent references to elders or leaders of the people Hence it passed into the Christian Church where the early officials were called the people Hence it passed into the Christian Church where the early officials were called clutch where the Presbyterian churches elders cleted by each church form the ruling body elected by each church form the ruling House Members of the Corporation of Trinity House are called elder brethren, and retired statesmen in Japan who are called on for advice in emergencies are known as elder statesmen emergencies are known as elder statesmen.

emergencies are known as eiger statesmen

Eldon family of Ecott since 1821
Scott was born at Newcastle on Tyne, He was
1731, the son of a coal merchant in 1776
became a barrister in 1782 he entered the
House of Commons and in 1788 he was knighted
and made Solicitor General Five years inter-House of Commons and in 1700 he was kinghed and made Solicitor General Five 3 (ars later he became Attorney General, and in 1790 a judge and a peer as Baron Fidon Black to bee

tribal chief who, smeared with balsam and In England and Wales there were in 1930 covered with gold dust, plunged into a sacred | 25,730,507 electors, or practically the whole of lake near Bogota at a yearly festival It developed into the story of a mythical city, Manoa or Omoa the quest of many expeditions, including one by Raleigh which penetrated Gulana in 1595

Eleanor Name of three English queens was the daughter of William, Duke of Aquitaine In 1137 she married Louis VII of France The marriage being dissolved, she became the wife of Henry, later Henry II. later Henry II of England A great heiress, Henry secured with her lands in the S of France She was the mother of Richard I and

John and died April 1, 1204

Another Eleanor was the wife of Henry III
She was the daughter of the Count of Provence, and was married to Henry in 1236 Edward I was her son She died at Amesbury, Wilts,

The third Eleanor was a daughter of Ferdinand III, King of Castile In 1254 she married nand III, king of Castile In 1234 she married Edward, later Edward I, and with him went on crusade whence her devotion to him has become a legend She died at Harby, Notting hamshire, Nov 28, 1290 and the king creeted a series of beautiful crosses at the places where her body rested on its way to Westminster Abbey Of these crosses only those at Geddingian Northempton and Welthem province. dington, Northampton, and Waltham survive

Eleatic School The School of flourished at Elea, Lower Italy, from about 570-450 BO Its leading exponents were Xcnophanes, Parmenides and Zeno, who taught the unity of all phenomena ("the All is one"), and attacked the current anthronomenic mythology. pomorphic mythology

Election In politics, the act of choosing a representative It is usually done by ballot, and in most elections a bare majority of the votes east is sufficient to secure a return. Where, however, there are three or more candidates the votes given to the unsuccessful candidates are together often more numerous than those given to the successful one. To remedy this proportional representation (q v ) other methods have been suggested

Elections are of several kinds In one the electors choose their representatives directly, in another they vote for persons who in turn choose the representatives The President of the USA and the aldermen of English county and town councils are examples of indirect election A general election is when all the representatives on a body are elected at onco, who has resigned or died. In Fascist Italy the electors can only say yes or no to a list of names submitted to them by the authorities.

In company law, directors are elected by the shareholders, but such election is usually a mere form Members are elected to clubs by the committee Here a small minority can usually prevent a man from securing election This is called black balling See Votf

Election Theological doctrino activation fing to God the choice of particular persons to receive eternal life. It is a special adaptation of the process of redemption of the wider doctrine of predestination which claims to interpret the all-embracing design in the Divine will John Calvin maintained the doctrine in an absolute and un-

Elector In.

the adult population In a special sense, the electors were the princes who chose the Holy Roman Emperor They date from 911, but it was some the 13th century their number was fixed at seven and by the Golden Bull of 1356 this arrangement was confirmed. The seven were the Archhishage of Malan. the Archbishops of Mainz, Cologne and Treves, the King of Bohemia, the Elector Palatine, the Duke of Saxony and the Margrave of Branden-They formed the electoral college and burg each had a position in the emperor's household The Archbishop of Mainz was president of the In 1648 the number of electors was raised to eight, and in 1708 to nine, the new electors being the Duke of Bavaria and the Ruler of Hanover, who later became King of Great Britain

Electra in Greek legend, the daughter of Agamemnon and Clytaem. nestra, and the sister of Iphigenia and Orestes. After her father had been murdered by his wife, she assisted her brother in avenging his death. The three famous Greek tragedians, Aeschylus, Sophocles and Euripides, have written dramas dealing with the life story of Electra, the first of the three being called Choëphoro from the chorus of captive Trojen women offering libations at Agamemnon's tomb, and the other two Electra

Electric Fish Genus of fish which possesses the power of giving an electric shock. Three kinds of fish are known to have this power, the electric eel (Gymnotus electricus), a native of the rivers of and Guiana, the electric catfish Malapierurus electricus), a native of the larger African rivers, and the torpedo, or electrical ray, found in warm seas all over the world. The fish use their power for defence and to stun their prey

Electricity From early times certain phenomena related to frictional electricity have been noticed. Among the ancient Greeks, Thales recorded the attraction of light bodies by a piece of amber In the 16th century Dr Gilbert showed that other bodies also possessed this property, and to these he gave the name of electrics from the Greek clektron, or amber From this time onward the experimental study of electricity grew, and the work of Newton and others resulted in the production of frictional machines giving a spark several inches in length

With the Leyden jar, invented in 1745 came an understanding of the principles of induction, and seven years later, Franklin demonstrated the identity of lightning with the electric spark In 1800 Volta discovered a new source of electricity in the contact of two dissimilar metal plates immersed in acidulated water, the prototype of the modern primary battery or cell

The phenomena observed by this new discovery led to the foundation of electrochemistry, Davy, by his study of electrolysis, being able for the first time to decompose the alkalis and earths. The work of Faradas, Oersted and Ohm resulted in the enunciation of the laws governing electrolysis, the principles of electrochemical part that the principles of electrochemical part of electrochemical elec of electro magnetism and the idea of electrical resistance

In more recent times the researches of Hertz and many others have further increased our In general any one who is knowledge of the working of electrical forces, entitled to vote at an election and the work of Johnstone Storey and Thomson has culminated in the discovery of the atomic, the first execution taking place in 1890, and nature of electricity and the elaboration of the by Ohio in 1896 electron theory

The uses which electricity has for man are many and varied It is used as a source of power, as a source of light and heat, and is beneficial in the treatment of certain diseases

Electricity is produced by water power on a large scale in Canada, the United States (where Niagara is utilised), Norway, Switzerland and other countries In Great Britain, where water power is less abundant, coal is used, although some of the falls in Scotland are harnessed to the service

Intrnessed to the service

In London and other cities great power stations have been erected for supplying electricity to railways, tramways, and industrial establishments, shops and private houses These are controlled by private companies, with a certain amount of public control. In 1926, to extend the use of electricity, a Central Electricity Board was established. The whole country has been divided into regions and for each a scheme to supply electricity on a large scale by means of main transmission lines (\* The Grid ") has been prepared Work has begun on some of them, for instance a large power station for the midland area has been opened near Birmingham. Meanwhile the been opened near Birmingham. Meanwhile the railway lines, especially in the London, Man chester and Liverpool areas, are being electrified and in 1931 a large scheme for electrifying the main lines was put forward

Electricity is used to a certain extent on farms and there is an electricity department

at the National Physical Laboratory

Electric Shock Treatment for -If the contact has not been broken, stand on some poor conductor (dry wood, cement) and handle the patient very carofully, if possible with rubber gloves, and in any case with some dry material be tween the hands and his skin. It may be necessary to knock away the wire with a dry necessary to knock away the wire with a dry stick after short circuiting the current with a bar of metal dropped on the wire and with the other end on the ground. The patient has to be treated for burns and shock—the latter primarily (see SHOCK). In severe cases it may be necessary to use artificial respiration (see under Drowning). If the patient is breathing keep him warm and quiet. Obtain medical aid as soon as possible.

Electro-Chemistry Branch of with the relation between electricity and chemical action Some chemical actions produce electricity while in certain cases the passage of an electric current results in chemical passage of an electric current results in chemical change (electrolysis). The action in an electric storage battery is electrolytic Electrochemistry has many modern industrial applications as in production of metals (aluminium, sodium, iron alloys, etc.), refining (gold, copper), electro plating and the manufacture of nitrates and other synthetic fortilisers, calcium carbide, phosphorus, carborundum,

Electrocution Method of inflicting adopted in the United States It consists of the passage of a current of electricity of very high voltage through the body of the criminal who is scated in a specially constructed chair. It is claimed by those who advocate this form of execution that it is more nearly instantaneous and less revolting than other methods. It was and less revolting than other methods. It was electricity in a state of equilibrium, in contra adopted by the state of New York in 1888, distinction to electrokinetics which treats of

Electrode Term applied to the points of entry and exit of electric current (positive and negative noles) of a voltaic cell electrolytic cell, high vacuum tube, etc The positive electrode in a primary cell is termed the anode and is usually of zinc, whilst the negative electrode or enthode the set content certains and the set certains and the set content certains and the set certains are set certains and the s may be of copper, carbon or mercury In secondary or storage cell the electrodes ar usually of lead

Electrokinetics Branch of physical science dealing with electricity in a state of motion, or current electricity, in contradistinction to electrostatics which treats of electricity in a state of equi librium, or electric charges

Electrolysis The process of chemical decomposition by means of an electric current. If a current be passed through a conducting liquid, or electrolyte, chemical change sets in and the products of decomposition appear at the electrodes. For example, if the electrolyte is an aqueous solution of copper sulphate metallic copper is deposited on the kathode, or negative electrode, and sulphuric acid is liberated at the anode, or positive electrode. This process forms the basis of electro-plating (av)

Electro-Magnet See MAGNET

Electrometer Instrument for measuring electrical potential differences The term is usually confined to instruments of high sensitivity used for measuring very small charges or changes of potential. Lord Kelvin in 1857 designed two forms which have persisted with minor improvements until the present day. This Quadrant Electrometer is based in principle upon the rotation of a light delicately suspended than between the four search a guadrants of a rane between the four separate quadrants of a circular metal box, opposite pairs of which are charged to the potential difference to be measured

measured

Electron Smallest known particle of Electron matter, or atom of negative electricity. The term was first used by the physicist, Dr Johnstone Storey, the theory of electrons being substantiated inter by Sir J J Thomson, who demonstrated the atomic nature of electricity. The weight and speeds of movement of electrons are known from experimental evidence, and the accumulated knowledge of these minute bodies has revolutionised physical science. The atom is now regarded as consisting of a group of electrons revolving round a central positively charged nucleus. nucleus.

nucleus.

Electro-Plating Process by which a thin layer of one metal is deposited electrolytically upon another metallic surface. The metal to be deposited may be gold, silver, nickel copper etc., and is used in the form of an aqueous solution of a salt. The object to be plated is suspended in the liquid from the Lathode, while a piece of the metal to be deposited is attached to the anode bliver plating is widely adopted for many articles of brass copper and German silver Nickel plating forms an officient protective covering to many articles, while chromium is now extensively used Sce Letterrolysis LLI CTROLYBIS

Electrostatics Section of physical Belence dealing with

electricity in motion. It deals with the laws and problems relating to the forces of attrac-tion and repulsion as seen in the phenomena of frictional electricity, also with the conditions of conductivity and non conductivity and the laws governing these conditions Flectro-statics is concerned experimentally with various machines or devices designed to convert mechanical energy into electrical energy

Electro-Therapy Medical term for application of electricity to treatment of disease Direct and high frequency alternating current and static discharges of suitable strength are used. The the creation of heat at greater depths than can be reached by external application, and the destruction of certain growths

Electrotyping Method of printing of the type to be reproduced is faced with graphite on which copper or other metal is deposited electrolytically and then strengthened by a backing of lead or similar metal. On removing the mould, the impression is used for printing copies of the original

Electrum ancients for amber It was later applied to a natural alloy of gold and Term originally used by the silver applied to a natural alloy of gold and silver found in veins in Hungary and Transvitania, meet of this alloy contains about 50 per cent of silver Fleetrum was also produced artificially in early times, for use in colnage and plate, and consisted of three or four parts of gold to one of silver A modern alloy known as observed postering postering postering. alloy known as electrum contains nickel, copper and zine

Elegy Term denoting a poem of mourning Strictly the true elegy was a lament in elegiac metre, each couplet consisting of a hexameter and a pentameter, the name

referring to the form rather than the sentiment Famous English elegies are Daphranda by Spenser, Lyndas by Milton, Adonas by Shelley and Thyris by Matthew Arnold, all commemorating under classical names, friends of the poets Tennyson's In Memoriam is another elegity other famous ones are the Elegity elegy, other famous ones are the Elegy uritten in a Country Churchyard by Grav, and Swindburne's Are alque Vale in memory of Brudelnire

Element According to the ancients, term applied to fire, air, earth and water, which were regarded as certain qualities determining the different forms of matter. In modern chemical terminology an element is a simple body which cannot be decomposed by any known means of chemical analysis. There are 90 elements at present they come come of these bank you were and their known, some of these being very rare and their properties little understood. The study of r dio-activity has shown that some of the elements, under extrain conditions, may change that a properties of the case of radius one into another, as in the case of radium, ur inlum and lead, and recent experiments on the hombardment of elements with particles travelling at very high speeds have resulted in definite disintegration of one element into

Elephant (Elephas) Genus of mammals, comprising the largest existing onadruped Ther are sometimes 8 to 11 ft march and in 1931 a Miniature (Nursery) State, in helpht. The nose forms a flexible, double-birrelled proboses or trank often 4-5 ft m length, the sensitive finger like tip of which can pick up small objects. The teeth include, in both sexes, upturned upper incisors or tusks.

Figin Miniature (Nursery) State, march and in 1931 a Miniature (Nursery) State, march and in 1931 a Miniature (Nursery) State, march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced a march and in 1931 a Miniature (Nursery) State, and better the produced and better the produced

the source of ivory Large tusks may measure up to 9 ft and weigh 90 or 100 lb

The two living species of elephant are the Asiatic or Indian, with concave forchead and small ears and the taller African species with convex forehead and large flapping ears. A dwarf race, standing 51 ft, occurs in Franch Congo Tamed Asiatic elephants serve for ceremonal, timber and other transport. they rarely breed in captivity The African elephant has as yet proved untameable White elephants are albinos

Elephantiasis Discose characterised by overgrowth of the skin and subjacent tissues. It is also called Barbadoes leg It is caused through chronic obstruction of the lymphatic vessels. The skin The skin becomes tense, hard and sometimes wart-like, the affected parts being permanently swollen, sometimes enormously. It may arise from several causes, but chiefly from a thread like parasitic worm, filarm introduced by mosquito argency Frequent all over the tropics, it apparently originated in Asia in antiquity It is distinct from leprosy, which is sometimes called etephantiasis graecorum

Elephantine Island in the Nile, op-posite Assuan, Upper Egypt It contained the fronter station at the southern limit of the Old Kingdom Nile navigation, through which Sudan ivory passed into ancient Drypt Its governor rlso regulated granite quarrying at Assuan There is a nilometer of the Ptolemaic period on the Island

Eleusis In ancient geography, a city twelve miles from Athens, the seat of the worship of Demeter and of the Eleusinian mysteries The events celebrated were the descent of Persephone into the underworld and her return to the light of day and her mother. There were two festavals, the greater and the less. They were intended to confirm, in the minds of the "initiated," the faith in life after death and a system of rewards. The city was destroyed by and punishments the Goths in 396 Excavations were begun in 1882, and the whole site is now exposed

Elevator Appliance for raising a body or bodies to a higher level The term is most frequently used for a lift for presengers In mining, bucket chains, consisting of revolving chains with buckets attached, and hydraulic elevators are used In America and other wheat growing countries, the term elevator is used for the great grain stores or silos which are fitted with elevating, loading and distributing machinery

Elgar Sir Edwa-d English composer He was born June 2, 1857, at Broadheath, Worcestershire and his youth was spent in a variety of choral and orchestral experiences In 1890 his overture Froissart was played at the Worcester Festival and with The Dream of Gerontus, 1900, a violin concerto, 1910, symphonics, 1908 and 1911, and his cello concerto he has carned a sure and his cello concerto he has carned a sure position as one of the great masters of music Figar was knighted in 1902 and received the Order of Merit in 1911, in 1924 he became Master of the King's Murick. In 1930 he produced a new Pamp and Circumstance march and in 1931 a Miniature (Nursery) Suite, dedicated to the Princeses Elizabeth and Margaret Rose. In 1931 he was made a baronet. He died on Teb 22 1931.

is 80 m from Aberdeen and 180 m from Edinburgh and is served by both the L N E and L M S Rlys The chief object of interest and L M S Rlys The chief object of interest is the ruined cathedral, there are also tho remains of a castle and of monasteries The Greyfriars chapel has been restored burgh has an agricultural trade Pop 7776 burgh has an agricultural trade Pop 18716

Durga nas an agricultural trade Fop 7176

Elgin Earl of Scottish title borne by the first earl family of Bruce since 1633

first earl was Thomas Bruce, and his son, the scond earl, was also Earl of Aylesbury In 1746 the title passed to the Earl of Kincardine and since then the earls have held the double in the family seat is Broomhall Fife, and title The family seat is Broomhall Fife, and the earl's eldest son is called Lord Bruce the earl's eldest son is called Lord Bruce

the earl's eldest son is called Lord Bruce
James Bruce, who became the 8th earl in
1841, was Governor General of Canada, 1846
54, and from 1882 63 was Viceroy of India
In the meantime he represented his country in
China He died in India, Nov 20, 1863 His
In Victor Bruce, the 9th earl, was First
Commissioner of Works in 1896 From 1894 99
800, Victor Bruce, the 9th earl, was with the was Viceroy of India and he presided over
the was Viceroy of India and he presided over
two important royal commissions
two important selections of the belat
was made Colonial Sceretary, an office he held

he was Viceroy of India and he presided over two important royal commissions In 1905 he two important royal commissions In 1905 he was made Colonial Secretary, an office he held to three years He died Jan 18, 1917 and the Elgin Marbles are works of art collected by Thomas Bruce, 7th earl of Elgin when he was British ambassador in Constantinople was British ambassador in Constantinople include specimens of the work of Pheidias and other great Greek artists They were and other great Greek artists and other they still 1816 for the British Museum, where they still 1816 for the British Museum, where they still

Elginshire cially known as Moray remain

(qv) High priest of Israel in the later period E11 of the Judges (1 Sam i iv) Ho judged Israel for forty years, and the ark sanctuary Israel for forty years, and the ark sanctuary at Shiloh was in his care Samuel, the boy temple attendant. prophesied God's enger at temple attendant. israel for forty years, and the ark sanctuary at Shiloh was in his care Samuel, the boy temple attendant, prophesied God's anger at the wickedness of Ell's sons, Hophni and Philnehas Hearing of their death when the Philistines captured the ark, he fell down and died

Pen name under which Charles Lamb Elia (en name under which Charles Lamb)
the London Magazine The first essay, which
appeared in 1820, describes the Old South Sca
House where he spont his first few months of
business life 30 years before
the spont of the fellow clerks there name of one of his fellow clerks there

name of one of his fellow clerks there

Elibank It gives the title of viscount to the family of Murray In 1643 Patrick Murray of sevendants In 1641 the 164th passed to his electron of the family of the passed of the family of the fa

in 1927 to Gideon Murray, as 2nd viscount

Elie Burgh, seaport and watering place of
the Fifeshire, Scotland It stands on
the north side of the Firth of Forth, 10 m
from St Androws and 45 m from Edinburgh
It includes Earlsferry Pop (1931) 1098
The line of the Firth of Forth, 10 m
The line of the Firth of Forth, 10 m
The line of the Firth of Forth, 10 m
The line of the Firth of The line o

cherch or att Compal of to gramatically the and the priests of Baal to a contest with Ahab and the priests of Baai to a contest with Jehovah on Mt Carmel, or to warn Ahaziah Jehovah on disappeared in a fiery chariot Believing in his reappearance before the coming of the Messieh, Jews still set his chair ready at

the Passover meal The New Testament, in describing the Transfiguration, calls him Elias His day is July 20

His day is July 20
Pen name of the English George
Pen name of Mary Ann Evans.
She was born at Arbury Farm near Nuneaton,
Nov 22, 1819, her father, Robert Evans, being
Nov 22, 1819, her father, Robert Evans, being
agent for a neighbouring landowner. Her early
years were passed in the country, but in 1841
the family moved to Coventry
the family moved to Coventry
studied a good deal and was an accomplished
studied a good deal and was an accomplished
scholar when, in 1849, she settled in London
scholar when in 1841 it leaves the latest the late scholar when, in 1849, she settled in London She had abandoned the evangelical faith of her She had abandoned the evangelical faith of her youth for agnosticism and her first literary levels as translation of Strauss's Life of york was a translation of Strauss's Life of Jesus In 1851 she was made assistant editor Jesus In 1851 she was made assistant editor of The Westminster Review, for which she wrote and through which she met George Henry Lewes, with whom she formed a union In 1868 Miss Evans published in Blackwood's Henry Lewes, with whom she formed a union Magazine her first stories, called Scenes from In 1868 Miss Evans published in Scenes from Clerical Life greatest works, Adam Bede The Mill on the Floss and Silas Marner In 1863 she published Romola and then came Felix Holi, the lished Romola and then came Felix Holi, the Radical, Middlemarch and Daniel Deronda In verse she wrote The Spanish Gipsiy Lewes Radical, Middlemarch and Daniel John Uross the leading novelists of the 19th One of the leading novelists of the picturing, as she does with remarkable fidelity, taring, as she does with remarkable fidelity, at Done of the Dort Eliot is at her best in picturing, as she does with remarkable fidelity, at Done of the Dort Eliot is at her best in picturing.

Ene quiet country life of the midlands

Eliot sir John
English politician
English politician
English politician
Wealthy
Except Corlish family, he went to Exeter College,
Coxford In 1614 he entered the House of
Commons and in 1618 was knighted
the time when Charles I ascended the of the
he became an active critic of the policy of the the time when Charles I ascended the throne became an active critic of the policy of the king and the Duko of Buckingham, his former triend He helped to draw up and pass the Petition of Right and in 1629, for protesting against illegal taxation, he was nut in prison He was still in the Tower of London when he are was still in the Tower of London the Mon archy of Man and other books

Elisha Hebrew prophet the disciple and Selection of Elijah (2 Kings successor of Elijah (2 Kings succes rrom Jenoram to Joash His story abounds in miraculous incidents, mostly beneficent as raising a widow's son and healing Naaman the leper The orthodox calendar commemorates

leper The orthogox calendar commemorates him on June 14
Torm used in pharmacy An elixir of weak syrup flavouring agents, a flavouring agents, a flavouring agents, a flavouring agents, are the elixirs of senna rhubarh. portion of alconol and a memerical instrument Examples are the elixirs of senna rhubarb, figs and cinchona The alchemists applied the examples are the elixirs of senna rhubarb, figs and cinchonn The alchemists applied the figs and to the philosopher's stone and to a substance (clarr vitae) supposed to prolong life indefinitely.

Humanian country

Ilfe indefinitely

Elizabeth of King Andrew II, sho

The shoot of King Andrew

The shoot of Charles Kings

The shoot of Char ley's The Saint's Tragedy 1848

Elizabeth Name of two English Queens One, born about 1437, was a member of the Woodville family Sho was

the widow of Sir John Grev when she met and married Edward IV. Edward V was her son

She died in 1492

The other born Feb 11, 1465, was her The other born reb 11, 1403, was her daughter She was probably concerned in the plot that culminated in the Battle of Bosworth and afterwards married the victorious Henry Tudor, later Henry VIII Henry VIII was her son She died Feb 11, 1503

Elizabeth Queen of England and Ire-Sept 7, 1533 she was the daughter of Heary TIII and Anne Boleyn In 1536 her mother was executed and her father took little interest in his daughter, who passed her time mainly at Hatfield Her education, however, was not neglected and she was placed in the succession to the throne after Edward and Mary

In Nov 1558 she became queen and her reign lasted for 45 years. Its glories are one of the main themes of English history, and the Elizabethan age is regarded as one of the greatest, perhaps the greatest, the country has ever known Its literature alone would make it memorable, even unique, but there were also glories of other kinds won by the men of action who have given eternal fame to the

word Flizabethan

The first part of the reign was occupied with the establishment of the Church of England in the form which it retains to-day Then came the form which it retains to-day the increasing hostility between the English and the Spanish seamen and the plots formed to kill the queen and replace her by Mary, Queen of Scots, her prisoner for 19 years. Tortuous negotiations with France and spasmodic assistance to the Dutch Protestants were other occupations. The execution of were other occupations. The execution of Mary in 1587 ended one danger and the defeat of the Spanish Armada in the following year made England supreme on the seas. The last years of the reign were troubled by risings in Ircland and by the queen's reluctance to make any arrangements about a successor died at Richmond, March 24, 1603

A clever, if unscrupulous woman, Elizabeth's personal part in the affairs of state was a personal part in the anairs of state was a considerable one. From some grave mistakes she was undoubtedly saved by the wisdom of her ministers especially the great Lord Burghley, and by the gallantry of her warriors, but at other times her own strong common sense was of inestimable value. To the end Elizabeth remained unmarried, but the possibility of winning the hand of a powerful release. bility of winning the hand of a powerful ruler was a factor of importance in European politics was a factor of importance in European pointer for many years. She refused Philip II of Spain; she dallied with the idea of marrying Henry III of France, or his brother, or Don John of Austria, but these were only moves in the political game. If she loved at all, it was one of her English favountes, either Leicester or the unfortunate Essex

Many books have been written about lizabeth Two of the best are M Creighton's Elizabeth Queen Elizabeth and Elizabeth and Essex by

Lytton Stracher

Elizabeth English princess Born Dec daughter of Charles 1 After her father s daughter of Charles I After her father's execution in 1649, she was kept in Carisbrooke Castle, where she died, Sept 8, 1650

Elizabeth Empress of Russia A daughter of Peter the Great and Catherine, she was born Dec 18, 1709 Having lived a retired life for some years, she Having lived a retired life for some years, she appeared in 1741 at the head of the party that deposed the young Tsar, Ivan VI She then became empress and ruled Russia until her death, Jan 5, 1762 A good part of her reign was occupied in fighting against Frederick the Great She founded the University of Moscow

Elizabeth Queen of the Belgians Born daughter of Charles, Duke of Bavaria In 1990 she was married to Albert, who in 1909 became King of the Belgians Their family consists of two sons and a daughter

Elizabeth Queen of Bohemia Born at Falkland, Fife, Aug 19 1596, she was the eldest daughter of James VI of Scotland In 1613 she married Frederick the Elector Palatine, who, in 1619, was crowned King of Bohemia She shared his troubled fortunes and with him became an exile in the After Frederick's death in 1632. Netherlands Elizabeth remained there for some years in considerable distress, made worse after the death of her brother Charles I At this time she met the Earl of Craven, who devoted his life to her In 1661 she settled in London where she died, Feb 13, 1662 The queen's large family included Sophia the mother of George I, and the soldier prince, Rupert

Elizabeth Queen of Rumania. A daughter of the Prince of Wied, she was born Dec 29 1843, and in 1860 was married to Charles, or Carol, who became later prince and then King of Rumania She was Queen Consort until her husband's death in Oct., 1914 Her own followed on March 2, 1916 The queen is best known as a writer of poems and stories under her pen-name of Carmen Sviva Some of them have been translated into English

Elizabeth Madame Name given to the French princess, Elizabeth Philippine Marie Hélène Born at Versailles, May 3 1764, she was the grand-daughter of Louis XV and sister of Louis XVI In 1792 she tried to escape with the king, but was caught at Varennes and imprisoned May 10, 1794, she was sent to the guillotine

Largest species of deer (Alccs machlis) Elk Largest species of deer (Acces machies) It is notive to northern Europe, Siberia and America where it is called the Fossil remains occur in the Thames moose The Alaskan elk is a gigantic animal, vallex palmate antiers weighing 50 60 lb. In Scandinavia the elk is hunted on snowshoes with trained dogs and is rapidly diminishing in numbers. Americans trunsfer the name elk to the wapitl deer, Cerrus canadensis. A gizantic elk, once inhabiting Ireland, is now xtinct

El Kantara Town of Egypt It stands on the Sucz Capal, about 20 m from Port Said and has a station on the railway line to the coast In Jan and Feb, 1915, the Turks attached British forces defending the canal here, but were beaten back

Elizabeth British princess Born April lengths in different countries, the English ell is 45 inches, the Scottish 37, the Flemish 27, of the Duke and Duchess of York, the princess is the third in succession to the throne.

Elland Town and urban district of York the River Calder, 3 m from Hallfax There are textile works flagstone quarries tile making and fireclay works Pop (1931) 10,327

Ellenborough English title borne by the family of Law Edward Law, a Cumberland man, born Nov 16, 1750, was made Lord Chief Justice and a baron in 1802 He resigned in 1818 and died baron in 1802 He resigned in 1818 and died in the same year His son, Edward Law born Sept 8, 1790, then became the 2nd baron Re was Lord Privy Seal and President of the Board of Control in 1898 From 1841 44 be was Governor General of India, being respon sible for the annexation of Sind In 1846 he was First Lord of the Admiralty and in 1858 was again President of the Board of Control In 1844 he was made an earl, but this title bocame extinct on his death, Dec 22, 1871 His barony, however, passed to a kinsman and is still in existence and is still in existence

Ellenborough is a village in Cumberland.

just outside Maryport.

Ellen's Isle Small island of Loch Kat-

rith Scott's poem The Lady of the Lake
Ellerman Sir John Reeves English
Shipowner Born May 13, 1862, he became a clerk in a shipping office. In 1902 he purchased part of the Leyland line of steamers and founded the Ellerman Line Soon he controlled a large shipping fleet, including the Ellerman, Hall, City and Buck nall Lines In 1905 he was made a baronet

Ellesmere British island Situated in the Arctic regions of North America, it is 40,000 sq m. in area, but unin habitable

Ellesmere Market town and urban dis 11 m from Whitchurch, on the GW Rly and is also served by a canal Near are several meres Pop (1931) 1872

The title of Earl of Ellesmere has been held since 1846 by the family of Egerton The first earl was Lord Francis Leveson Gower a vounger son of the 1st Duke of Sutherland On the death of the last Earl of Bridgewater in 1829, he inherited the estates of the Egertons 1829, he inherited the estates of the Egertons and took that name He was made an earl in 1846 and the present earl is his descendant. The earl s seat is Worsley Hall, Manchester, and his eldest son is called Viscount Brackley

Ellesmere Port Town of Cheshire Chester and stands on the Mersey at the junction of the Ellesmere and Manchester Ship Canals There are large docks and the other industries are dycing and the manu facture of chemicals With Whitby it forms an urban district Pop (1931) 18,898

Ellice Islands Uslands of the Pacific The group of nine islands forms part of the Gilbert and Lilico Islands colony, which became a British Protectorate in 1892 and was formally added to the Empire in 1915 Area, .741 See GILBERT ISLANDS Area, 14 sq m Pop

Elliot Walter Elliot British politician Educated at Glasgow Academy and t the university there, he became a doctor in 1914 18 he served with the RAMC in rance in 1918 he was elected Conservative IP for Lanark in 1923 he lost his sent, Lut in 1924, 1929 and 1931 was elected for Dereham and 127 m from London on the

Kelvingrove In 1923-24, and again in 1924-26, Major Elliot was Under-Secretary for Health for Scotland, in 1926-29 he was Under Secretary for Scotland and in 1931 Financial Secretary to the Treasury Since 1932 he has been Minister of Agriculture He was made a PC in 1932

Ellipsis Figure of speech in which a atthough their meaning is implied The nominative is often omitted as in the sentences, "Who steals my purse steals trash," and
"Would he were here," or the antocodent is
omitted before the relative pronoun as in

Whom the gods love die young"

Ellis Henry Havelook British psycho-logist Born at Croydon, Feb 2, 1859, atter teaching for four years in New South Wales, he took his medical degree in London He soon afterwards abandoned his practice for literary and scientific work He writes on scientific subjects in a clear literary style, and has written amongst other books Man and Woman (1894-1904), The Soul of Spain (1908), The Task of Social Hygiene (1912) Essays in Wartime (1916) Kanga Creek (1922) The Dance of Life (1923), Essays of Love and Virtue (1931) His greatest work is to be found in his Studies in the Psychology of Sex in Soven volumes published over a number of years and scientific work He writes on

Rulned city of Hyderabad, India. It is 13 m from Aurangabad and Ellora is noted for its temple and caves which are among the wonders of India Extending along the front of a hill for over a mile, these caves were cut in the rocks and the rock temples include Buddhist, Brahmin and Jain examples and date from the 5th, 9th and 10th centuries. The Kailas temple, a famous ruin, is here also

Ellwood Thomas English writer Born in 1639 at Crowell in Oxford shire, he was converted to Quakerism about 1650 He is chicity known as the friend and assistant of Milton, whom, from 1662, he served by reading to him He succested the idea of Paralise Regained Ellwood wrote a good deal in defence of the Quaker faith and also an Autobiography which is full of interest. He died March 1, 1714

Genus of trees and shrubs (Ulmus), native to N temperate regions The native to N temperate regions. The common U camposins, a tree growing up to 130 ft., rarely perfects its winged one seeded truits in Britain, where it is usually propagated by lavering or suckering. The hard, tourh close grained timber serves for keels, tackle blocks, coffins, wheel naves and common turnery. The indigenous Sected or wych elm. U montana, which is almost as tall yields timber much employed for boat and coach building, because it is floxible when steamed.

Lims are subject to a disease which causes the tree to die back. This became serious in France and Belgium after the Great War and

in 1927 appeared in England

Elman Mischa Russian violinist Born Schoolmaster, he made his first appearance in public in St Petersburg in 1901 In 1905 he played in London and was soon recognised as one of the world's masters In 1920 he was naturalised as an American and made his home

LNE Rly Pop 900 about 5 m from Bungay

Elocution Art of speaking effectively cution is part of the training of an actor. It is also studied by preachers and those who wish to become public speakers. Much depends upon the natural qualities of the voice, but, however good these are, they can be improved by some knowledge of correct pronunciation the control of the breath, the right use of expression and gesture and other such matters

El Paso City, river port and watering stands on the Rio Grande river, on the Mexican border, and is served by Mexican as well as American railway lines There is a trade in the minerals, lead, copper and silver, mined in the neighbourhood, and the industries include large smelting works for lead and copper There is a trade along the river and the city has some manufacturing industries. It is the has some manufacturing industries. It is the centre of the Rio Grande reclamation project, and the large quantities of cotton grown on the reclaimed land have brought fresh indus-tries to the city Pop 162 421

Elsinore Scaport of Denmark It stands on the Island of Zealand and on The Sound, and is connected by railway with Copenhagen The place has a shipping trade and some manufactures and from here a ferry goes to Helsingborg in Sweden It is the reputed scene of Shakespeare's Hamlet Pop 13,800

Elstow Village of Bedfordshire It is John Bunyan was born near the village in which he hived after his marriage Pop 500

Elstree Town of Hertfordshire It is 7 m from St. Albans, on the L VS Riv and is also reached by the Metropolitan Riy The place has become a centre of the film industry and her and at Borcham Wood are large studies In 1936 about 5 acres of studio buildings were destroyed by fire Pop 2230

Elswick District of Newcastle-on-Tyne, boundaries. Here are the extensive worls founded by Sir William Armstrong, which now belong to Vickers, Armstrong, Ltd

Eltham District of London In the Borongh of Woolwich it is 7 m from London Bridge, on the S Rly It is also served by transways and meteor omnibuses The open spaces include Eltham Common, Avery Hill and Eltham Park Old Eltham Avery Hull and Eltham lath Old Einnam contains some interesting old houses. Nearer Woolwich is New Litham. The early kings had a palace here. Most of it has disappeared, but the hall remains. Litham has associations with Sir Thomas More, whose house still stands. A township of North Island, New Zealand, is called Eitham. It is on the railway from Wellington and is the centre of a dairy farming district.

d'strict.

Ely City, market town and urban district of Cambridgeshire. It is on the Ouse, 16 m from Cambridge and is served by the L.N.E. N. It is the chief town of the lete of the country and the lete of LIVE 10 It is the cine; town of the 1ste of Lily and has an agricultural trade. Lily is famed for its cathedral, one of the finest and largest in England The tower, 170 ft. high, is of rare beauty Pop (1931) \$382.

The Irish title of Marquess of Ely, taken from a rillage in Fermanagh, Ireland, has been held

South Elmham is since 1800 by the family of Loftus The eldest son of the marquess is called Viscount Loftus

Ely Isle of District of England It is some purposes, but has its own county council which meets at March The district, in the north of the county, stretches from Ely to Wisberh and is famous for its market gardens Pap. (1931) 77 705 Pop (1931) 77,705

Elysium In classical mythology, the fair land, also called the Elysian Fields, where the souls of the good Elvsian Fields, where the souls of the good dwell after death Homer depicts it as being uwen after death momer depicts it as being on the western margin of the earth, by other writers it is called the Isles of the Blessed, or Fortunate Islands, and in a later age it is described as being in the nether world A land of flowers, sunshine and happiness, great heroes were supposed to pass there without death without death

Elzevir began business as a printer at Leiden and the business was continued by his descendants, first there and later at Amsterdam, until 1712 The Elzevirs won a great reputa-tion by the excellence of their printing

Embalming Method of preserving a dead body. It was proctised among the ancient Egyptians, Peruvians and many other races, and has been revived to some extent in modern times in Europe and America In Egypt the body was embalmed by several methods described by Herodotus and Diodorus, the internal organs being removed and preserved in special jars aromatic resins and astringents, natron and bitumen, were used according to a definito ritual Not only human bodies but cats, crocodiles and sacred birds were embalmed

Embankment Originally a bank or water from flowing over the land Now it is usually contined to such works along river banks encroachments of the sea being dealt with by piers or breakwaters Embankments usually include a roadway the best known example being the Embankments along the Thames in London Another kind of embankments in London Charles kind of embankments in London Charles kind of embankments in London Charles kind of the London Charles kin ment is the earthwork made along the sides of a railway line when it passes through a cutting or depression

Embargo Primarily a temporary order parture of a ship it was usually enforced on enemy vessels on the outbreak of war The term is now used for the temporary stoppage of a particular trade. For instance there may be a particular trade an embargo on the export of arms or on the import of drugs

Embassy lives The word is also used to designate the ambassador and his staff collectively. As a building the embassy is regarded as being on the land of the country that owns it By a similar convention, an embassy is freed from rates and taxes

embassy is freed from rates and taxes.

Ember Days Four seasons for praver and fasting observed in the liturgical churches of W. Christendom. They comprise the Wednesday, Friday and Saturday of the weeks, called Ember Weeks, which begin with the 1st Sunday in Lent, Whitsunday Holy Cross day (Sept. 14) and S. Lucy's day (Dec. 13). The Anglican communion appropriates the Sandays following them for ordinations, the Roman Catholic church the Saturdays of the Ember Weeks.

EMBEZZLEMENT Embezzlement In English law the ating money by a servant or agent, as when an agent or collector keeps for himself money paid to him on account of his employer, or where a shop assistant puts in his pocket money paid to him for goods sold

Emblem Device or picture made to embody a spiritual idea or to embody a spiritual idea or to symbolise a quality in art, emblems have been attached to most of the saints, and even to Jesus Christ Instances are the lily of the to Jesus Christ Pater and the lamb of to Jesus Christ instances are the lily of the Virgin, the Leys of S Peter and the lamb of S. John the Haptist, and there are thousands of others Printers call the marks they use on their works emblems. The modern subtheir works emblem is the badge stitute of the emblem is the badge

Embolism Medical term for the construction in the arteries or capillaries due to some substance arried in the blood of fibrin on the condition is used by masses of fibrin on the heart, but this sometimes caused by foreign bodies which it is sometimes caused by foreign have entered the blood stream have entered the blood stream on the brain may cause paralysis. nave entered the blood stream An embolism occurring on the brain may cause paralysis, and when formed in a limb may be followed

by gangrene

Embroidery

needle and thread
work was made in
the Christian church has always made made in the Christian church has always made more with remarkable skill and patience and with remarkable skill and patience and second worker for churches and second workers for churches and so no fessional workers for churches and with embroidery, but much of this is machine made

Embryology Section of biology deal with the develop mental stages of an animal or plant from the egg to the mature organism This science has to the mature organism of the section of the to the mature organism. This science has become of great importance as it is only by the study of the early stares that the true relationships of many organisms can be ascer tained, as in the case of the barnacles whose embryology shows that they belong to the composition of the barnacles although, from anatomical obser Crustacea, although, from anatomical observations they were classed by the older natural ists as mollusca.

ists as moliusca
The individual plant or animal usually starts
its life cycle in the union of two germ cells or
manctes, one the sperm cell or spermatozoon,
the other the ovum or cgg cell The ovum,
after fertilization, undergoes cell division re
after fertilization, undergoes cell division re
multing in the formation of tissues and organs. after fertilization, undergoes cell division re sulting in the formation of tissues and organs, the details of these early stages varying greatly in different types Further, the evolutionary in different types Further, the evolutionary in the formation of the race is in some way stamped upon the germ cells with the result that the individual recapitulates more or less the stages individual recapitulates.

through which it has evolved the many through the product of the to remove accumulations of mucus, in some through the remove accumulations of the remove accumulations of mucus, in some through the remove accumulations of mucus, in some thr and it is a fishing centre shipbuilding Pop 27,800

The Emden was the name of a German light The Emden was the name of a German light cruiser She displaced 3 600 tons and early in the Great War did a good deal of damage to British shipping in the Pacific and Indian Oceans On Nov 9, 1914, she was caught and Gestroyed by the Australian cruiser, Sydney, at North Keeling Island A later light cruiser of this name, launched in 1915, was surrendered by Germany at the armistice

of this name, launched in 1915, was surrendered by Germany at the armistice by Germany at the armistice as the precious of the beryl It is a silicate of beryllium and aluminium, the colour being due to a minute proportion of chromium compounds and varying from a chromium compounds and varying from a grass green with a yellowish tinge to a deep grass green. The lustre of the emerald is emerald green. emerald green The lustre of the emerald is vitreous with a velvety effect in the finest gen stones, few specimens are flawless or have colouring The finest stones are found at Muzo in Colombia found at Muzo in Ralph Waldo Born in Boston, May 25, 1803, he was the son of a Uniforman

Emerson Halph Waldo American Boston, author Howas the son of a Unitarian He was educated in his native town minister He was educated in his native town in minister He was educated in his native town and at Harvard, and became a teacher in 1829 he was selected as minister of a Unitarian 1829 he was selected as minister of a Unitarian but three years later he and at Harvard, and became a teacher In 1829 he was selected as minister of a Unitarian church in Boston, but three years later he church in Boston, but three years later he resigned because his views were unacceptable to his congregation. He then visited England to his congregation He then visited England where he began his lifelong friendship with the carry of the section of the condition of the congregation of the section of the condition where he began his lifelong and Wordsworth where he began his lifelong and Wordsworth where he began his lifelong and Wordsworth of the condition of the section of the section of the section was really made by his carried at Concord and life essays and poems but his reputation was really made by his writings, especially his essays and poems writings, especially his essays and poems he kept up a close connection with his English He kept up a close connection with his English He will he first book was called Nature, 1836, England in it and its successor, and in it and its successor, and in the and its successor, the Dial, which of this movement was The Dial, which he edited for two vears in 1841 he published organ of this movement was The Dial, which his first volume of essays and his visit to volume of poems. Representative Men are lectures delivered in England. Has visit to later volumes include The Conduct of Life, which country inspired The Conduct of Life of Society and Solutade, 1870, and Letters here.

1860 Society and Solitude, 1870, and Letters and Social Aims, 1876

Pmery variety of corundum It is composed of alumina mixed with the iron oxides, posed of alumina mixed with the iron oxides, and an ananctite and haematite, and is used as an abrastive on account of its extreme granular it is found in bands or irregular granular masses in crystalline limestones associated with metamorphic rocks in Naxos in the

with metamorphic rocks in Naxos in the with metamorphic rocks in Naxos in the Aegean Sea, but its chief commercial sources are Ontario, New York State and the Trans of powder, which is used for grinding, cutting of powder, which is used for grinding, cutting and pollshing metals, etc.

Emetic Substance which, when taken into the stomach or injected subcutaneously, induces vomiting It is used in cases of whooping cough and bronchist in cases of whooping cough and bronchist to remove accumulations of mucus, in some forms of dyspepsia where evacuation of the to remove accumulations of mucus, in some forms of dyspepsia where evacuation cases of stomach is necessary, and in many cases of poisoning Emetics in general use are mustard or sait in warm waters, sail volatile, incacuant wine and sulphate of zinc, while apomorphine is injected beneath the skin as a powerful but non irritant emetic

in another have been emigrations of people from one land to another, but emigration in the modern sense only began in the 17th century when Europeans only began in the 17th century when Europeans crossed the Atlantic to settle in America There were also emigrations within Europe such as those of the Huguenots after the revocation of the edict of Nantes In the 19th century emigration to North America reached enormous proportions, Ireland and Scotland being two of the countries that contributed greatly to it. Australia and parts of South Africa were also peopled by European

After a time, as the new countries filled up. they began to place restrictions on immigrants This took the form of requiring them to possess a certain capital, or a certain standard of education, or freedom from disease Still more drastic measures were taken in the United States, Australia, Canada and elsewhere to keep out coloured immigrants on the ground that their lower standard of living was a menace to the white man

After the Great War, for these reasons and also for others, eg, pensions, insurance and other benefits which made people more reluctant to leave the homeland, there was a great decline in emigration. For instance in 1913, 196 375 196,278 emigrants left the United Kingdom for Canada, 77,934 for Australia and New Zealand, and 77,014 for USA In 1933 the corresponding figures were 28,391, 12,195 and 22,189

The United States adopted a policy of only

allowing a limited number of immigrants from each nation For each a quota, based on the number of each nationality already in the country, was fixed, and only this number was admitted each year in 1933 the number allowed was 23,068 divided as follows .

Britt h Tales Italy German y 1919 Other Nations

In order to encourage emigration, the British Government has an Oversea Settlement Department at Caxton House, Westminster, Suitable emigrants can be helped and under the Empire Settlement Act of 1922 over 50,000 nere assisted to emigrate in 1927

Emir Arabic word for a ruler or com-other forms of it are ameer and amir The form emir is only used in Africa, where it refers to an independent chieftain

Emmaus In Biblical geography, a vil-position is unknown but it was not far from Jerusalem It was for a long time identified with the Emmaus, rebuilt by Vespasian under the name of Aicopolis now known as Amwas Others identify it with Koloniych and El Kubebe, both about ten miles from Jerusalem

Emmet Robert. Irish politician He was born in Dublin, the son of a doctor, in 1778, and went to Trinity College there Influenced by a stay in France, he decided to make an attempt at securing independence for Ireland. He planned a rising in Dublin, but this was made known to the authorities and kmmet, having fled to Wicklow, was caught. Found kullty of treason he was hanged, Sept

Empedocles Greek philosopher and poet He was born at there, but later left Sielly and settled in Peloponnesus. His works, all in verse, include a poem on medicine on purification and on natural science. He held there were four

From the earliest times there unchangeable elements, fire, air, earth and water, and two opposing forces, love and hate. which bind or separate

Word taken from the Latin

Emperor Word taken from the Latin a ruler more powerful than a king Julius Caesar called himself imperator and his nephew, Augustus, was the first of the Roman emperors The title was used by those who claimed to be the successors of the Roman emperors

A large butterfiv found in the south of England is called the emperor, or purple emperor, on account of the purple lustre on the male There is also an emperor moth which is found in Great Britain

Empire Term used loosely for a state of the most powerful kind which is

ruled by an emperor or empress. It comes from the Latin word imperium. The German word for it is Reich. The first empire was the Roman. Later the word was used for the great states that existed before Rome, and men. speak of the Assyrium, Persian, Babylonian

and other empire-

The Roman Empire was continued by the Byzantine and the mediaeval empires and on the ruins of the latter arose the Austrian Empire in 1804 and the German Empire in 1871 Both these disappeared in 1918, while the Russian Empire which also claimed sucthe Russian Empire which also claimed succession from Rome through Byzantium, was destroyed a year earlier. The title of Emperor of the French was taken by Napoleon in 1804 and France was an empire for 10 years. This of the French was taken of Tapovears. This and France was an empire for 10 years. This was the first French Empire. The second was the first French Empire The second lasted from 1852 to 1871 and its ruler was his nephew, Louis Napoleon, known as the Emperor Napoleon III

In the 19th century, too, the term empire began to be used for the lands under the King of Great Britain and Ireland India was made an empire when the title of empress was given to Queen Victoria in 1878 In America two empires, Brazil and Viexico arose, but each had only a short life The only empires in the world since 1918 are the British and the Indian, one within the other, and the Japanese, but neither of these has any

resemblance to the earlier empires.
THE HOLY ROMAN EMPIRE The Empire. in full the Holv Roman Empire, known also as the Mediaeval Empire lasted from 800 to 1806 It was created by Charlemagne, who was crowned emperor in Rome by the Pope and believed himself to be the successor of Augustus Caesar. It consisted of the lands under his rule, which included the countries now known as France, Germany, part of Italy and other European lands This empire was divided after his death and in the 9th and 10th conturies it fell to picces.

The Empire was revived in 962 by Otto the Great, Duke of Saxony who was crowned, like Charlemagne, in Rome by the Pope His empire, however, did not include Frince, but consisted chiefly of Germany and Italy Otto's son and other descendants succeeded him, but the idea grew up that each must be min, but the idea grew up that each must be elected and be crowned by the Pope The Electors at first were all the princes of Germany, but gradually they were narrowed down to seven, the Archbishops of Mainy Troves and Cologne, the King of Bohemia, the Count Palatine of the Rhine, the Margrave of Brandenburg and the Duke of Saxony

The Saxons, descendants of Otto the Great, were emperors until 1002 Then came the Franconian or Salian, emperors who ruled

ENAMEL

until 1124 During this time there took place until 1124 During this time there took place the tremendous struggle for supremacy of tween the Papacy, under Pope Gregory VII, tween the Papacy, under Pope Gregory VII, the Conian emperors were succeeded by the Swabian house of Hohenstaufen and during Swabian house of Hohenstaufen and during their reigns the fight was renewed On the whole the popes had much the better of it and when Frederick II died in 1250 the and when Frederick II died in 1250 the After a period without a ruler, Rudolph of EMPIRE DAY

Empire was in a state of chaos

After a period without a ruler, Rudolph of
Hapsburg was elected German king in 1273,
but he was not crowned at Rome and so is not
but he was not crowned at Rome and see to
but he was not crowned at Rome and so is not
reckoned as an emperor
reckoned as an emperor
reckoned as an emperor the sext 50
years or so there was continual fighting for the
years or so there was continual fighting or neces
imperial crown and, although various or neces imperial crown and, although various princes imperial crown and, although various princes impered to the control of the contro years or so there was continued lightness imperial crown and, although various princes

nossession of that great family One after the other its members were elected and took the imperial title, but, especially after 1648, the imperial title, but, a loose collection of rival imperial was but a loose collection of little Empire was but a loose collection of little states over which the emperor had little states over The greatest Hapsburg emperor authority the greatest was Francis, who was Charles V the last was Francis, who resigned an empty dignity in 1806 He was descended from the marriage of belonged to the family of Hapsburg Lorraine for he was descended from the marriage of large Theresa, the heiress of Charles VI, and Francis, Grand Duke of Lorraine and Francis, Grand Duke of Lorraine

Empire Day in Great Britain an takes place on May 24, the birthday of Queon Victoria, and dates from 1004 The idea is due to the 12th Earl of Meath Empire Day is not a bank boilder.

a bank houlday
Empire Free Trade PREFERENCE a bank holiday Board

Empire Marketing ETITUTE IVIAL KELLILS founded in British Government organisation, on matters 1926, to advise the government, on matters connected with marketing Empire produce In 1933 its services were transferred to the Imperial Economic Committee Publicity was an important activity while by grants to an important activity while by grants to suitable institutions at home and in the colonies suitable institutions at home and in the colonies the encouraged research in connection with suitable institutions at nome and in the colonies it encouraged research in connection with Empire agricultural products suitable for the

home market

Empire Style French decoration, in rogue during Napoleon's consulate and empire following the Directoire style, it derived its following the Directoire style, it derived its impulse from Napoleon's campalgas in Egypt, impulse from Napoleon's campalgas in Egypt, impulse from Napoleon's campalgas in Egypt, impulse from Napoleon's campalgas in Form the impulse from Napoleon's capalla a Architecture as simulated and Herculaneum furniture displayed recand Herculaneum, furniture displayed recangular forms sometimes with swelling tangular forms and curvilinear motives, sometimes with such as wreaths and bows, textiles bore the such as wreaths and bows, textiles bore the lasted until 1840 Knowledge which rests Architecture simulated and Heroulaneum furniture with swelling Roman grandeur, furniture with swelling tangular forms sometimes with swelling tangular forms, as in sofas, and curvilinear bee, eagle and Napoleonic N Its influences lasted until 1840

Empiricism

Knowledge which rests lasted until 1840

Empiricism

Knowledge with rests lasted in a throughput of a glossy material application in colon and content of the study of laws and general induction, not on the study of laws and general induction, not on the study of laws and general induction, not on the study of laws and general induction, not on the study of laws and general induction, not on the study of laws and general induction, not on the study of laws and general induction, not on the study of laws and general induction, not on the study of laws and general mediacoval oratismen mediacoval oratismen

in which these are the essential ideas. The philosophers who have taught empiricism philosophers who have taught empiricism. The include Hobbes, Locke and John Stuart Mill include Hobbes, Locke and John Stuart Mill include Hobbes, Locke and John Stuart Mill with include Hobbes, Locke and John Stuart Mill was ensured to work for him or her at a manerity or such temployer must, in his dealings manerity employees, observe the laws con with his employees, observe the laws con with his relations between master and cerning the relations between master and servant, such laws include the length of servant, such laws include the length of the Between the employer and employed there is a contract

there is a contract
At common law an employer is liable to pay
damages to a servant who is injured in the
course of his employment This was dealt
with in detail in the Employers' Liability Act
of 1880 The matter is also dealt with in the
various Workmen's Compensation Acts, and a
person who is injured may decide under which
he shall take action To-day the majority of
he shall take action under the Workmen's
cases are dealt with under the Workmen's
cases are dealt with
themselves against the risk of injuries to their
themselves against the risk of injuries to their

Employment Exchange In 1905 local authorities in Great Britain were empowered to open labour exchanges as they empowered to open labour exchanges as they were called, and in 1910 a national system was established. Buildings for the purpose were erected or bought all over the country. In the partie was changed to employment. erected or bought all over the country In 1910 the name was changed to employment exchanges. They were at first controlled by the Board of Trade, but later passed under the Ministry of Labour These exchanges are responsible for paying out benefits to those insured against unemployment (q v)

insured against unemployment (qv)

Female ruler, or the wife of the Latin imperatrix and was used for the formed rulers at Byzantium Several rulers of Russia were empresses, as wore the wives of the French, German and Austrian emperors, the French, German and Several rulers of the last named were not severoigns but the last named were not severoigns of the Data of the Canadian Pacific Some of the boats of the Canadian Pacific Scotland

Ends and River of Germany Rising in Fins Thuringia it flows for 210 m through Westphalia and Hanover to the North Sea. Emden stands near its mouth and it is connected with Dortmund and other places by the Dortmund Ems canal

neoted with Dortmund and other places by the Dortmund Ems cannal

Emsworth At the mouth of the little River Ems, it is 76 m from London and strom Portsmouth, on the S Rly There is a small harbour Pop 2200 can be a from the strong Pop 2200 can be a from the strong Pop 2200 can be a from the strong pop 200 can be a from the strong

small harbour Pop 2200

EMU Large bird found only in Though and the adjacent islands Though smaller, it resembles the ostrich, having only rudimentary wings It can run very fast and swim well Emus live in flocks in uninhabited parts and feed chiefly on fruit. They are hunted with dogs and will breed freely in captivity The male is smaller than the female captivity the male is smaller than the female and incubates the eggs, which are green and incubates the eggs, which are green.

either to a linseed oil varnish containing work is written with this end in view knuri gum or other resins, or to a resin dissolved in pyroxylin or cellulose nitrate

Encaenia Annual festivals in memory of the dedication of particular churches. An instance is that commemorating the Temple at Jerusalem The annual commemoration of the founders and benefactors of Oxford University in June is called the Encaenia.

Method of painting by Encaustic melted wax as a medium It was used by the Greeks and Egyptians of the Graeco-Roman period In one process the pigments were mixed with white wax and moulded into sticks or cakes and the tints were blended with a heated metal tool, the rhabdion in another method the brush was used for laving on the colours, the whole picture being then heated.

Encke Johann Franz. German astro-burg, Sept. 25, 1791, and after service in the army, became director of an observatory near army, became director of an observatory near Gotha in 1817. Director of the observatory at Berlin from 1825-63, he died at Spandau Aug 26, 1865 Encke gave his name to a comet. This was discovered by a French astronomer in 1818, but Encke did valuable work in calculating its movements, he also made observations on the transits of Venus

Enclosure Common land converted to the use of a private individual In England, in the Middle Ages there was an enormous amount of common land, but gradually much of it was enclosed by the lords of the manor By law they could do this, pro vided they left enough unenclosed for the use of the tenants. In the 18th century by special Acts of Parliament dividing the land between the lord of the manor and the tenants, about 5,000,000 acres were enclosed and the practice continued until 1845, when commissioners were appointed and further enclosures were few and small

Encyclical Circular letter addressed by an ecclesiastical authority to its members In the Anglican comrity to its members munion the word nowadays denotes letters summarising the episcopal conclusions formed at the periodical Lambeth conferences. In the Roman Catholic communion it is reserved to letters addressed by the pope to all bishops on topics interesting the church at large

Encyclopaedia Word of Greek origin meaning the whole circle of knowledge. It is used for books that give, in alphabetical order, information on all subjects of human interest and sometimes for works not arranged on the alphabetical Books dealing in similar fashion with or branch of knowledge, eg cducation or clemistry, are sometimes called encyclo paedias

Encyclopaedias go back to the time of the Greels The first English example appeared in 1701, and in 1728 Lphraim Chambers pubfished one. The Enryclopaedia Britannica | Elicina Enemate may be cleaned by the first appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap and purgative appeared in 1771 and until it passed under prising water with or without soap appeared in 1771 and until it passed under prising water with the passed under prising water wate

The second kind consists of a pigment added paedias shorter and handler, and the present

Enderby Land District in Antarctica Situated in about 50° E long, due S of Madarascar, and within the Antarotic Circle, it was named by John Biscoe, who discovered it in 1831, when in the London whaling brig Tula sailing belonging to Enderby Brothers The Enderby quadrant designates one of the four map-The Enderby sectors constituting the south polar region

Study of the en-Endocrinology study of the en-docrine (internal secreting) glands and their secretions (hor-mones) These glands include the thyroid, thymus, supra-renal, pituitary pineal body, carotid and coccygeal glands, which yield up their secretion to the blood stream without the intermediary of a duct and others (pancreas ovary, testes) which though provided with ducts for certain secretions, manufactured. facture also others (endocrines) which reach the blood directly Thus the term "ductless blood directly glands" is not is not synonymous with endocrine glands.

The internal secretions govern nutrition. growth, metabolism deficiency in some may produce abnormalities such as cretinism or dwarfism, excess may cause glantism, and in the case of the thyrold, exophthalmic goltre Both physical conformation and mental makeup are affected by their functioning. Defects may be remedied by the administration of glandular preparations or by surgical removal of portions of the glands See GLAND

## Endogamy See ExogANIY

Writing on the back Endorsement of, a document con-Cheques, bills of exstituting a sanction change and other documents must be endorsed before they can be paid into a bank. The endorsement usually takes the form of the signature of the person to whom the document is made out

Money settled on an institution or society. Endowment The term is generally used for money given or bequeathed to a religious, educational or philanthropic institution which, being cor-porations can hold land or other property in perpetuity. In Great Britain a vast sum in perpetuity of money is held as endowments some of it being controlled by the Charity Commission Endowment policies, as they are called are issued by insurance companies to provide

money for educating a son or daughter, or starting them in life, or for some other purpose

Endymion in Greek legend a youth ously described as a king, shepherd or hunter He was lissed by scienc (the moon) when asleep in a cave on Mount Latmus in Caria. Scline caused him to sleep for ever that she might be able to kis him without his know-ledge. Kents called his most considerable poem Endymon

Enema Fluid injection into the bowel Enemate may be cleansing, com tives, nutrient, when stomich derangement prevents direction sedative for painful recommon was the fewing British tives, nutrient, when setainte for painful example. The most famous of all was the Freedophile edited by Diderot and D Alembert. The group of brilliant men who wrote for it were called the Enerclopédistes and included Voltaire and Rousseau. In recent passes the fluid through a round-ended nozzle years the tendency has been to make encyclo-

Energy Term used in physics for the appliance used in war Of modern types power is not necessarily active, it may be and the Diesel oil engine are noteworthy power is not necessarily active, it may be stored up in a body, as in the case of a colled spring which possesses potential or static energy Work implies the action of force and motion, and when the spring is released these factors become active in the performance

these factors become active in the performance of work
In static energy there must be that which will cause the continuance of the force in spite of motion as in the clasticity of the spring In kinetic energy, the energy of motion, there is inertia or momentum to ensure the continuance of the motion against resistance A leaden weight moving rapidly will produce a greater effect than a ball of wool moving at a high speed Energy is measured in units of work or foot pounds, one foot pound being the amount of work required foot pound being the amount of work required to raise one pound vertically one foot.

Enfield Market town and urban district of Middlesex It is 104 m from London on the LNE Rly The New River passes through the town Enfield Lock, where is the Royal smallarms factory,

is a district near

is a district near

Enfield Chase, fragments of which survive in Hadley Wood and elsewhere, was at one time a noted hunting ground and a palace was built here. The greater part of the palace was demolished in the 18th century. What remained has been used as a school and then as a club. A section of a cedar brought from the W Indies about 1780 and believed to have been the first cedar to be planted in England, is preserved in Enfield library. Pop. (1931) 67,869

Enfranchisement Liberation or the admission to political privileges Persons are entran chised by being given the right to vote, as was done in 1918 and 1928 in Great Britain when women were made voters Another kind of enfranchisement is turning a lease Another hold tenure into a freehold one

Engadine Valley of Switzerland The upper part of the valley of the River Inn, it is on the borders of the First About 60 m long it is famed for its beauty and climate. It is divided into two parts, upper and lower, and in it are several places visited for health and pleasure, such as St Moritz and Pontresina.

Engineer One engaged in any enginering eering work. There are engineer officers in the navy. These pass through courses at Keyham and Greenwich and then enter the navy, where they rank as engineer lieutenant, engineer commander and so on up to engineer vice admiral. Owing to the increase in the power of warships, this branch of the service is of much greater import ance than formerly. In the army engineers belong to the corps of royal engineers, on gineers are also employed in the air force. In civil life engineers are employed on a great variety of work and are classed accordingly. They are trained in colleges and at the universities, most of which give degrees in One engaged in any engin

ingly They are trained in colleges and at the universities, most of which give degrees in engineering Engineers are employed by the Board of Trade, the Post Office and other Government departments, but more find work with railway companies, shipbuilders and contractors, whilst there are many openings with local authorities and companies that possess electric light, gas and water plants Every large city or town has a city or borough

Every large city or town as engineer with a staff
Skilled artisans engaged in making engines, boilers and the like are called engineers
These form a powerful trade union, the Amel
The world Society of Engineers
The world trade union to the world trade union trade union to the world trade union trade gamated Society of Engineers The word was first used in England in the 13th century

as a military term

as a military term

Engineering Civil engineering is design and construction of bridges, roads and docks and with irrigation and its associated mechanical devices Mechanical engineering deals with the machinery for generating motive power and with mechanical appliances for trades and manufacturing processes Electrical engineering is concerned with all forms of electrical machinery for generating power and the methods of electric lighting and heating Further specialisation has resulted in the important branches of mining, metallurgical, agricultural, chemical and wireless engineering

The principles of engineering science and their practical application in many directions appear to have been known in very ancient

beauty and climate It is divided into two parts, upper and lower, and in it are several places visited for health and pleasure, such as St Moritz and Pontresina

Engelberg Pleasure resort of Switzer land It stands at the base of the Titils Alps 14 m from Lucerne. The chief building is a Benedictine abbey with a fine and valuable library and an old church The place is noted for its cheese Pop 2500

Enghien French prince, the last of the Condé family Louis Antoine Henri de Bourbon Condé was born Aug 2, 1772 He commanded a royalist army against the republicans before 1801, when he settled in Baden, but three years later, falsely accused of conspiracy, he was arrested by Napoleon's orders, tried by a mock court martial and shot, March 21, 1801

Engine Mechanical appliance used for converting one form of energy into another The conversion of heat into mechanical energy is seen in the steam engine and in gas, oil and internal combustion engines. Formerly the term was applied to any complex machine, such as a beer engine or water engine, and in a military sonse to any

To become a skilled artisan it is necessary to enter a workshop at the age of 15 or 16, and to serve an apprenticeship of four or five years at a nominal wage. The artisan's pay is not high—usually somewhere in the region of £3 10s to £5 per week.

Technical apprentices are those who propose to take up engineering work of a higher grade, and are usually boys of 16 to 18 years, and of good education Their apprenticeand of good education Their ship period is three or four years

It is also generally possible, and a great advantage, to take a degree in engineering at a university or a diploma at a technical college, either before, or concurrently with, experience in or on works—but it should be remembered that the latter is essential

Training will vary according to the particular branch of engineering it is intended to enter, orance of engineering to is internated to enter, and it is advisable to decide this at the outset. Full information of training, qualifications necessary and examinations which may be taken, is obtainable from the secretaries of the various technical institutions representing the particular branches of engineering

also Civil Eventsense also Civil Eventsense AUTOMOBILE ENGINEERING —No new industry has made such progress of recent years as that of the manufacture of motor The possibilities for an automobileears The possibilities for an automotic-engineer are undoubtedly good for the able, trained and enterprising man, but like most other departments of engineering, it is at present somewhat overcrowded. The wage rate varies widely, but there are real oppor tunities for ultimate advancement for qualified men in the private car and commercial vehicle factories, the passenger carrying concerns and maintenance

Those contemplating training for this branch of engineering should consult the Institution of engineering should consuit the institution of Automobile Engineers (Watergate House, York Buildings, Adelphi, London, WC 2), the council of which has given considerable thought to the correct procedure for the traince—and is therefore in a position to traince—and is therefore in a position to advise, through its secretary, on such questions as suitable works apprenticeship, Technical Evening and Part time Day Classes, Fultime University Courses, and Full-time Courses at certain specialised colleges

CIVIL ENGINEERING—Under the term "Civil Engineering," as it is popularly understood, may be grouped work on railways, canals, harbours docks, etc., structural steelwork and municipal engineering (waterworks, sewage, etc.)

sewage, etc)
As with the other branches of engineering, practical experience and scientific knowledge are the es-entials, the latter being obtainable in a variety of ways Advice on the possible avenue, of training and the qualifications necessary should be sought at an early date from the Irstitution of Civil Engineers, Great George Street, Westminster, London, SW 1. (It should be noted that the conditions (It should be noted that the conditions of admission to this Institution are such as to be capable of fulfilment by one who has

been trained in any branch of engineering)

There is a field for Civil Engineers both at home and abrord Pav usually commences at about £250 and may rise to £1000 or more with suitable adjustments. with suitable adjustments to conditions of

with suitable adjustments to contain a living abroad living abroad ELECTRICAL AND WIRELESS ENGINGERING—Electrical Linguistering and operating into two classes, manufacturing and operating It is advisable to take a thorough course in the theoretical side, and the usual apprenticethe theoretical side, and the usual apprentice-

ship is necessary The student should qualify for membership of the Institution of Electrical Engineers (Savoy Place, Victoria Embank-ment, London, W C 2)

The possibilities of advancement for the

electrical engineer are perhaps more promising than in any other department of engineering The field of manufacture offers the widest scope for advancement and remuneration, but the development of Wireless Telegraphy and Broadcasting has introduced extensive possibilities in technical and administrative nositions

The more responsible posts carry salaries from £200 upwards, sometimes rising to £1000 a year or more Abroad, in the Dominions and Colonies, salaries usually commence at £400 to £600 a year

MINING ENGINEERING—There is scope

for the Mining Engineer, both at home and abroad, in commercial firms (which in the British Isles implies chiefly coal, with some iron ore, lead and tin), as mine inspectors and surveyors under the Mines Department and occasionally for Government posts in the Colonies

Practical experience is essential, while the scientifically trained man (preferably a University Graduate) is more and more in demand for coal mining, metalliferous mining or cil-field development Depending on the branch or branches of mining engineering adopted, the student should qualify for membership of one or more of the recognised technical Institutions, viz, The Institution of Mining of one or more of the Institution of Mining Institutions, viz, The Institution of Mining and Engineers, Tho Institution of Mining and Metallurgy, both of 225 City Road, London, E C 1, and the Institution of Petroleum Technologists, Aldine House, Bedford Street, London, W C 2

Salaries for trained engineers range from £250 upwards per annum, mine managors earn £500 and upwards, while abroad the rates may be considerably higher British qualifications are accepted in all parts of the

world

Engineers Royal Corps of the British Army It is organised into electric, field, fortress, postal, printing, rail-way and surveying companies, as well as a bridging, tracing and a searchlight battalion In time of war they take the field in companies attached to various divisions or brigades The corps may be said to date from 1772 Its strength in peace time is about 20,000 officers and men, but in 1918 it had risen to 340,000 The engineers are commonly called the sappers Entrance to the corps is by competitive examination, after which the successful candidates pass through a course at Woolwich

Woolwich
England Chief part of the island of Great Britain Once a separate kingdom, it has become the nucleus of the United Kingdom and of the British Empire Its king has become the ruler of vast areas including India, and its Government has, with modifications, been extended over large parts of the globe Its area is 50,874 sq m Its population at the census of 1931 was 37,354,917, of whom 17,844,709 were males and 19,510,208 were females London is the capital

London is the capital

PHYSICAL FEATURES—The country, including Wales for this purpose, is almost an
asland, its only land boundary being where
it touches Scotland Its extreme lengths are
430 m and 370 m, and it has a coastline of
about 1800 m. Most of the country is fellabout 1800 m. Most of the country is fairly

level without any ground over 1000 ft high In the NW, however, are mountainous areas. The country is well watered. The chief rivers are the Thames, Severn (partly in Wales), Trent, Tyne, Tees, Great Ouse, York shire Ouse, etc. Round the coast are many excellent harbours and river mouths on which are great ports such as London, Liverpool, Hull, Bristol, Southampton and Plymouth A network of railways covers the land, but canals are less general. Off the coast are a number of islands, the largest being the Isle of Wight.

number of Islands, the largest using the last of Wight
DISTRIBUTION OF POPULATION—Eng land is divided into 40 counties, which vary much in size and population, the largest being Yorkshire and the smallest Rutland The population is very unevenly distributed, as for nearly 200 years the land has become more industrial and less agricultural. It tends to gather in great industrial areas. More than half the population live within an easy radius (say 26 m) of London and Manchester. In the 20th century there has been a tendency for in dustry to congregate in the south a reversal of the process of the 18th and early 19th centuries when it congregated in the north. In the agricultural counties, Lincolnshire, Norfolk Wiltshire and Somerset, for example, the tendency is for the population to decline, if it does not do so it is because of its proximity to an industrial area. The largest cities after London are Birmingham, Liverpool Manchester and Sheffield, all with over 500 000 inhabitants. Leeds, Bristol, Hull, Bradford, Newcastello, Stoke, West Ham and Nottlingham have each over 260,000 whilst Portsmouth Lelcester, Salford and Croydon are very near that figure.

England Church of National Church of England and the recognised parent of the Anglican Church through out the world It dates from the 6th century when S Augustine settled at Canterbury and began to preach Christianity in the country It was soon organised into dioceses under bishops, and this organisation has continued The main influences came from Rome, but Caltin Indiances were mingled with these

began to preach Christianity in the country
It was soon organised into diocesses under
bishops, and this organisation has continued
The main influences came from Rome, but
Celtic influences were mingled with these
Under Henry VIII the Church of England
broke away from Rome Its doctrines were
reformed under Edward VI, and since the
time of Elizabeth there has been no funda
mental change Its doctrines are in the 39
articles, and its services are contained in the
Book of Common Prayer, both legalised in
that reign

that reign

After the Great War the Church in Wales, hitherto an integral part of the Church of England, was disestablished, and now forms an independent branch of the Anglican Church under its own archbishop Tho Church of England is organised in two provinces, Canter bury and York, each under an archbishop, and in 43 dioceses The two archbishops and 22 bishops sit in the House of Lords

The Church of England is controlled by the state, and no alternations can be made in its doctrines, or its form of worship, without the

The Church of England is controlled by the state, and no alterations can be made in its doctrines, or its form of worship, without the sanction of Parliament. In 1927 and 1928 attempts to revise the prayer book were rejected by the House of Commons Under Parliament, it is governed by a national assembly, a body set up in 1920 and consisting of three houses, bishops, clergy and laity There is also an older body called Convocation (gr) In addition there is an annual church congress, and periodically a conference of all Anglican bishops meets at Lamboth

In 1931 the beneficed clergy in the Church of England numbered 12,773 There were during the year 1930 200,000 confirmations and 430,621 baptisms There were 2,401,635 communicants at Easter

Englefield Green Village of Sur rey It is 14 m from Egham and near Windsor Part. The village is the scene of Mrs Oliphant's Neighbours on the Green Another Englefield is a village in Berkshire, about 6 m from Reading

English Channel Arm of the 81.2, land and France On the west it connects with the Atlantic Ocean and on the east with the North Sea It is narrowest between Dovor and Calais (21 m), and widest between Lyme Regis and St Malo (145 m) Its length is 280 m The English coastline is 400 m, and the French nearly 600 The French call it La Manche, the sleeve See Dovers

La Manche, the sleeve See Dover

Engraving art of cutting a design upon wood metal or stone to obtain an impression of the drawing in ink upon paper. The woodcut was the earliest form of engraving and was at its height in the 15th century in this process the parts to appear white on the print were cut away on the wood block leaving the black parts in relief. In engraving on copper and later on steel coated copper, popular in the 19th century but now largely superseded by photographic and lithographic processes, the drawing is incised by means of a steel graver or burin Engraving on stone is known as lithography. There is a fine collection of engravings in the British Museum.

Engrossing Form of writing in a fair, round legible hand which is used for copying or writing legal documents Formerly the engressing of documents was done in a peculiar script modified from the ancient court hand and often far from legible

Engrossing is also applied in a legal sense to the wholesale purchase of goods to create a monopoly for the purpose of raising prices At one time it was an offence against the law

Enham Village of Hampshire It is Great War it became a centre for the treatment and training of disabled soldiers The full name is Knight's Enham

Enlistment Act of enlisting or en fine army or air lorce A recruit enlists on certain conditions of pay, etc and for a certain period. If accepted as fit he signs an attestation paper takes the oath of allegiance and becomes subject to military law

Ennerdale Lake of Cumberland About 3 m long and 1 m broad, it provides Whitehaven with a seator supply

water supply
Ennis of Co Clare Irish Free State
It stands on the River Fergus 25 m from
Limerick and is served by the GS Riys
Its port is Clare Castle The trade is agricultural and there are some industries

Pop
5500

Enniscorthy Urban district and mar-Irish Free State It stands on the Rivor Slaney, 77 m from Dublin on the G.S. Rlys. The chief object of interest is the castle, now b private residence, and near the town is Vinegar Hill, the site of a rebel camp in 1798 The town has browing and distilling industries Pop 5500

Enniskillen Market and county town of Fermanagh, No Ireland It is 116 m from Dublin and SS m from Belfast on the GN (Ireland) Rly, and stands on an island in the River Erne, the River Erne, with suburbs on both sides There is an agricultural trade, also some river traffic. Pop 4850

Ennishillen or Innishilling, a great Protestant centre in the time of William III, gives its name to two regiments of the British Army These are the 28th Foot, known as the Royal Inniskilling Fusiliers and the Royal Inniskilling Dragoons In 1921 the latter regiment was disbanded and its name trans ferred to the 5th Dragoon Guards.

The title of Earl of Enniskillen has been borne since 1789 by the family of Cole The carl's eldest son is called Viscount Cole, and his seat is Florence Court, Enniskillen.

Ennius Quintus Roman poet One of the founders of Latin literature, he was born at Rudiae in Calabria about 240 BC, and died in Rome about 170 BC He served with the Roman army in Sardinia and was taken by Cato to Rome, where he Quintus Roman poet taught Greek His great work was the Annales, a chronological account, written in hexameters, of Roman history, of which only tragments survive

Enoch Name of four Old Testament patriarchs One, the seventh in descent from Adam, the son of Jared and father of Methuselah, "walked with God" and after living 365 years, "was not, for God took him" (Gen v, Heb xi)

The apocryphal Book of Enoch, comprising primitive literary fragments compiled after

primitive literary fragments compiled after 200 BC and completed under Herod the Great, is quoted in Jude 14 The other Enochs The other Enochs were a son of Cain, a grandson of Abraham and Keturah, and a son of Reuben

Ensign Flag carried by a ship to show Each nation has its own ensign, usually one for the navy and one for the mercantile marine Great Britain has three ensigns The white is for Britain has three ensigns The white is for the royal navy, the blue for the royal naval reserve and the red for the merchant navy Ships of the Royal Yacht Squadron have the privilege of flying the white ensign Each ensign has the Union Jack in one corner The ensign fiving upside down is a sign of distress In 1931 an ensign for aircraft was authorised. It is of light blue with a dark blue cross, edged with white, and has the Union Jack in the first quarter Union Jack in the first quarter

Ensign Former rank in the British of the second lieutenant of to-day The duty of the ensign was to carry the regimental colours. The rank was abolished in 1871

Ensilage Method of preserving green material (sulage) is stored in pits, stacks or towers (silos) so as to retain its succellency it is necessary to exclude the air after fermentation. tion is complete, otherwise over heating of the tion is complete, otherwise over nearing of the silage takes place and the presence of organic acids gives rise to souring. Modern silos are built of wood, iron or concrete, the stack form is useful for saving hay crops in wet seasons.

Entablature in classical architecture the horizontal super-

structure surmounting the columns and resting upon the capitals It usually comprised three members, the architrave, carried from column to column, pler or wall, the freeze, if present, and the projecting, protective cornice. All these members, originally of timber, preserved when translated into stone, some reminiscent features, eg, triglyphs represented beam The frieze was utilised for decorative sculpture and painting, but sometimes tended in late classical times to become overloaded and incongruous

Legal torm for the rule by which real property is settled on a succession of heirs In England a great deal of land was once settled in this way, but the amount gradually grew less since an entail could be broken with the consent of the heir The system was finally ended by the Law of Property Acts of 1925 Real property can only be dealt with now by an ordinary settlement, although such is sometimes called an entail

Town of Uganda Entebbe on a northern opening of Lake Victoria, and is the administrative capital of the British protectorate Steamers go from here to other places on the lake, and there are also a mail and telephone service and an aeroplane landing ground

Entente Cordiale Term for friendship tween Great Britain and France that began early in the 20th century and resulted in the alliance that carried on the Great War

Enteric Fever Disease more properly termed typhoid

Enteritis Inflammation of the mucous membrane of the intestine. popularly called inflammation of the bowels It receives specific names according to its locality, eg, appendicitis Its most marked symptom is diarrhoea. It may be due to eating unripe fruit, may accompany certain infective diseases caused by micro-organisms, such as cholera and typhoid fever, which is often called enteric fever, or may be a chronic sequel to dysentery Epidemic enteritis in voung children is termed summer diarrhoea. See Colitis

Entertainment Amusement or diversion, any public spectacle, such as a cinema or theatrical performance, sporting event, etc. In Great Britain there is a tax on entertainments It was introduced in 1916 and is in a scale which varies according to the price charged for admission

Entertainments in schools and educational institutions are exempt from the tax, which in 1935 produced just over £9,724,280

Entomology Branch of zoology con-Most jointed invertebrates, including spiders, mites and centipedes, were formerly included, but the word is now restricted to the true or six legged insects Economic entomology or six legged insects Economic entomology considers insects in relation to mankind's inferests. The Entomological Society of London, 41 Queen's Gate, S.W. 7, founded in 1834, and various foreign societies, specialise in this study. There is an Imperial Institute of Entomology with headquarters at the Natural History Museum, London, S.W. 7

Entrepôt Term used for a store obtained by the proofs a seaport, through which goods

also used for a seaport through which goods

London is an entrepôt of the world's

commerce Enver Pasha Turkish leader Born 1881, he became a leader of the Young Turk Party, and was active in the deposition of Abdul Hamid II in 1909 He fought against the Italians in Tripoli and was Minister of War during the second Balkan War, in which also he led an army in the field During the Great War, Enver, who had been an attache in Berlin strongly favoured the German side. When peace was made in 1918 he escaped to the Caucasus and did all he could to upset the peace treaties On Aug 4, 1922, he was killed at Bokhara

Environment Conditions that indevelopment It plays a prominent part in theories of evolution Living beings must have a certain power of adapting themselves to their environment or else they die, but the extent of this power cannot be precisely ascertained

Envoy
Porson sent on an errand, especially on a diplomatic one. It is used for one who is sent on a temporary mission, for instance to a coronation, in con tradistinction to an ambassador whose mission is more permanent. An ambassador, however, is also called an envoy extraordinary

Enzyme Active principle of a ferment Enzymes belong to the class of catalysts, or substances whose mere presence induces chemical change in other molecules, but an enzyme will usually act on one or a few closely related chemical compounds only, and will refuse to touch any molecule coming out side its own limited range of specificity

The amount of an enzyme present in any biological material is almost vanishingly small, but methods of extraction from such material in a state approaching purity have been worked out. Enzymes are now considered to be definite chemical compounds anchored "carriers" of much larger molecular size

Oldest known Euro-Eoanthropos Oldest known European race of man It is one of a number of words, the first part of which is co (a form of the Greek eos, dawn) used chiefly in palaeontology, in the sense of first headinglands. first beginnings

Eocene Oldest division of the Tertiary system of geological deposits. It represents the period of the dawn of animal life and followed the Cretaceous period. Eccene strata usually rest upon the denuded surface of the underlying beds of white chalk and often form bash like areas showing, by their character and fossil contents, their origin in estuaries and shallow seas The beds con slst of sands, clays, marls and, in S Europe N Africa and Asia, a great development of limestone

Eolith Name given to certain very fint implements. They have been found near lightham in Kent and elsewhere in S. England. Eoliths are generally

in the number of days, and is given in almanacs for each year The epact is used in calculating movable ecclesiastical feasts

movable ecclesiastical feasts

Epaminondas Theban general and statesman He was born about 418 BC, and in 371 was one of the generals at the Battle of Leuctra, in 370 he invaded Peloponnesus, where he founded Messene and Megalopolis In 362 he invaded it for the fourth time, and while he gained a brilliant victory over the Lacedaemonians at Mantinea, he was himself slain Thebes for a short time held the supremacy of Greece, but lost her position almost immediately after his death after his death

Epéhy Town of France It is 13 m from Cambrai and came into prominence during the Great War In April 1917, it was taken by the British from the Germans, who had held it since the invasion of France in 1914 The Germans regained it in March, 1918, and kept it until the following September Between Sept 12 and 25, 1918, the British, assisted by some French divisions, attacked strong German positions and gained considerable ground These successes made possible the attacks on the Hindenburg line Nearly 12,000 prisoners and 100 guns were taken

Épernay Town of France It is about 19 m from Châlons, in the department of the Marne The town is a great centre of the champagne industry, a great centre of the champagne industry, and there are large rock cellars in which the wine is stored, and works for making casks, corks, etc. In July, 1918, there was some fierce fighting around the town, but it was held by the French, added by a British contingent. Pop 21,800

Ephah Hebrow measure of capacity It contained 10 omers and was used for dry goods such as flour and barloy It is said to have had the same capacity as the bath, which was a liquid measure, and to have contained from 4½ to 9 gallons The word is apparently of Egyptian origin

word is apparently of Egyptian origin

Ephemera Family of insects popularly called may files. They have a long, jointed abdomen with three bristle like tails. The aquatic larvae, living in ponds and sluggish streams, pass into a chrysalid stage which, in E vulgata and E dancia two of the commonest of Britain's 50 species furnish the balt that angless call green drake and groy drake respectively. The green drake and grey drake respectively. The perfect insects, which can be seen in May fluttering their lace like wings in dense clouds, do not eat, and exist only for a day or two, or sometimes for a few hours only

Ephesians Epistle to the Tenth book of the New Testament. Written during 8 Paul 8 first im prisonment in Rome, about A D 62, it was apparently a circular letter addressed to the churches of Asia Minor which Tychicus carried simultaneously with that addressed to the Colosesum. Colossians

flat on one surface, rounded with an ochrows patina on the other, and chipped to form a scraping edge or notches

Eos Greek goddess of the dawn, regarded as identical with the Roman Aurora (qv)

Term denoting the meon's age the excess of the solar month or year over the corresponding lunar period. It is expressed

councils of the Christian Church were held there between the 2nd and 5th centuries

Ephod surplice worn by Jewish priests when officiating at the altar. The high priest's ephod was of linen, fastened by a girdle and supported by two shoulders are the supported by two shoulders. On each strap was an onvx stone on which were engraved the names of the twelve tribes of Israel There are several biblical references to it, notably in Exodus, xxviii, xixx xixr

Ephraim Younger son of the patriarch He was exalted over his elder brother Manassch in the paternal blessing. His descendants formed two of the tribes of Israel established in N. Palestine Lephrain led the tribal opposition against the kingdom of Judah which resulted in the formation of the separate kingdom of Israel.

Epic Poem which deals with a great event in a loft, and dignified manner The Iliad and the Odyssey are perhaps the world's greatest epic poems, another is Paradisc Lost

Epictetus Greek stolo philosopher He was born at Hierapolis in Phrygia, and died at Nicopolis in Epirus His dates are not known, but he died after his dates are not known, but he died after A D 118 He lived in Rome as a slave in the house of Epaphroditus, a favourite of Nero, who emancipated him When Domitian expelled the philosophers from Rome, he withdrew to Nicopolis His great rule of life was "endure and abstain" which teaches men to indre what they can and curist to men to judge what they can and ought to control, and what they ought to bear as being beyond their control

Epicureanism Greek so philosophy school counded by Epicurus who was born in Samos, 341 B.C., and came to Athens, where he taught and died 270 B.C. According to him happiand died 270 BC According to him happiness consists in pleasure or rather in the absence of pain But man needs a correct idea of the nature of pleasure, it is not individual pleasure, but complete mental tranquillity (alarana), for which virtue is indis-(alaraxia), for which virtue is indis-The mere sensual enjoyment of pensable the later Epicureans was rejected by Epicurus

Epidemic Term applied to a disease prevailing among a number of people at the same time. It is spread by infection, usually by the agency of microorganisms Among such epidemic diseases are influenza, measles, scarlet fever, whooping cough etc. The term endemic is used when the disease is local in character and pandemic when affecting very large areas Epidemics are less frequent than in former times, owing to various preventive methods and the greater attention paid to sanitation

Epidemiology is the branch of medical science devoted to the study of epidemic disease.

Epidermis Outer layer of the skin in animals, and the superficial cell layer in the higher plants The animal cell layer in the higher plants. The animal epidermis also called the cuticle, may be one or many layered, and in the higher animals, may be covered by a superficial horny layer

Epiglottis In man a thin flan-like cartilage It is situated in front of the glottis or entrance to the larvax and behind the root of the tongue. In its ordinary position it is directed forward and in some types may extend over the edge of the soft palate. It prevents food passing into the air passage to

Epigram Concise, pointed saving, often in verse The earliest epigrams were written by the Greeks as inscriptions on tombs and memorials, one of the most famous being that written by Simonides on the heroes who fell at Thermopylae The Romans, too were very good at making epigrams, and Martial ranks as one of the world's great epigram makers

After the revival of learning the epigram became a short poem on a single subject, ending with a witty or sarcastic remark Of modern nations the French are perhaps the best at epigrams, Voltaire being outstanding in this respect There are many excellent epigrams in English, those of Pope being notable As an example, Coleridge's enigrammatical definition of an enigram matter. epigrammatical definition of an epigram may

be given .

What is an Epigram? A dwarfish whale Its body brevity and wit its soul.

Epigraphy Study of inscriptions It those occurring on rigid materials as stone, metal, bone, shell and wood, or materials capable of becoming rigid as clay It includes incidental scratchings, as graffitt, but leaves to palaeography, or ancient writing, inscriptions on such flexible materials as papyrus, parchment and paper

Enilepsy Nervous disorder manifested

Epilepsy Nervous disorder, manifested by attacks of sudden insensibility. It is also known as falling sickness. When accompanied by convulsions it is major epilepsy or grand mal, when convulsions are absent it is minor or petit mal. In Jacksonian epilepsy the convulsive movements concern single groups of muscles, consciousness being retained, this is often remediable by surgical operation upon the brain lesion, usually caused by external pressure Epileptic fits are often preceded by warning sensations, and sometimes masked by outbreaks of epileptic fury

Epilogue Conclusion of a literary work or peroration of a speech specifically it was an independent commentary in verse after a drama, sometimes by another pen, appealing to the hearers or reader's indulgence or deprecating criticism, it especially characterised 17th-15th century English drama

Epinal Town of France The capital of the dept of Vosges, it stands on the Moselle, 46 m from Nancy It has many industries, one being the production of cheap images and pictures for children The fortress, built after 1870, is one of the most important defence works of France Pop 30,000

Epiphany Christian festival. It is chief the collection on Jan 6, the twelfth day after Christmas Originally part of the 12 day commemoration which included Christ's nativity and baptism, the adoration of the magi or three kings, and the cana miracles, the magn or three kings, and the Cana miracles, the nativity feast was transferred to Dec 25, Twelfth Day being appropriated in the East for baptisms, in the West for commemorating the three kings Symbolic offerings of gold, frankincense and myrrh are made in the kings name at the Chapel Royal, London, on Epiphany Day.

Epirus In ancient geography, a country of the NW of Greece It It flourished under Pyrrhus (295-272), and formed part of the Roman Empire from 146 Bc to AD 1204 The modern Epirus, which includes part of N. Greece and S. Albania, was conquered by the Turks in the 15th century, and now forms part of Greece

Church and now forms part of Greece

Church and now forms part of Greece

Church and now forms part of Greece

And now forms part of Greece

Episcopacy Form of church govern are the head. It grew up in the 2nd century and has since been the rule in the Romal Catholic Church, which claims for its bishops an unbroken descent from those times. The Anglican and Greek Churches are both episcopal and both regard the "historic episcopate" as essential to their life and work. Bishops can only be ordained by other bishops and in this way the apostolic succession, as it is called, is meintained. Episcopaer also prevails in the Lutheran, Moravian and Methodist Episcopal churches. See Bishop

churches. See Bishop

Epistle
in the Now
Peter and other apostles to churches and individuals
Such are the epistles to the individuals Such are the epistles to the Corinthians and to Timothy Other epistles were those written by Horace and later poets a fashion copied by English writers in the 18th century

Isth century

Epitaph Inscription on a monument found on Egyptian, Hebrew and other early tombs The Greeks used them freely and the facts of a men's career in a few pregnant words From Rome the custom spread all over the civilised world, and for many years Latin was much used for epitaphs, as it is to some extent to-day In the 18th century humorous epitaphs were very popular on tombstones Collections of them have been made Notable epitaphs are the one on Sir C Wren in S Paal's Cathedral, London, Sommunatum requiris circumspice (If you wish for his memorial look around) and O rare Ben Jonson "in Westminster Abber A curious epitaph in a Lancashire churchyard is as follows—

John Nattall lies here & that's enough, The card + out & w's the small first craits with God, you need not fear And had smalls lies busied here

is as follows -

Epithalamium Marriage song invok ing blessings In ancient Greece the epithalamium was sunby boys and girls below the bridal chamber on the marriage night and on the foliowing morning the Romans modified it to a song by girls only on the departure of the wedding guests. Pindar and Amercon among the Greeks, Catulius of the Pomans, Romsard Scarron and Malherbe among the French and Spenser Ben Jonson, Donne and Tenny son among Luglish poets have written epithalamia lamia

Epithelium Animal tissue formed of the cpidermis (qv), lines the alimentary tract (mouth to page) and the rindpipe and occurs inglands. Its functions are protective, secretory or sensory and it varies in form from the laver of ciliated cells in the windpipe to the stratified multilayered epithelium of the epidermis. See

Epoch In astronomy a date fixed for planet. It has therefore come to be used for a period marked by important events, as the Napolconic cpoch

Eponym Person after whom anything is named. In Greece it was the unofficial title of magistrates after whom

with Leytonstone, Epping Chingford, Wood ford and Loughton on its borders Acquired by the corporation of the city of London and opened in 1882 it is a popular pleasure resort. It is wooded and contains two ancient camps, Ambresbury and Loughton. In 1928 Knighton Wood, 37 acres, was added.

Enighton Wood, 37 acres, was added

Epsom of Surrey It is 14 m. from London on the S Rly On the downs nearby the Derby, Oaks and other races are run Epsom College is a public school associated with the medical profession Woodcote Park is the country home of the Royal Automobile Club, and The Dirdans was the residence of Loid Rosebery Pop (1931) 27 080 See Derney, The

Epsom Salts Magnesium sulphate in the form of small white cristals Dissolved in water it is used medicinally as a purgative. The name is derived from a mineral spring at Epsom from which it was at one time obtained

Epstein Jecob British sculptor Of Russo Polish parentage he was born in New York, Nov 10, 1880, and studied art in New York and Paris, where he came under the influence of Rodin In 1908 he executed a series of figures on the façade of the British Medical Association building in the Strand, London a work assailed at the time by much criticism His figures of Venus his Rima and Genevis, and the groups entitled Day and Night on the Underground building in Westminster have also provoked lively criticism His portrart busts are by many considered his best work

Epworth Town of Lincolnshire It is situated on the Isle of Ax holme, end is 183 m from London by the LNE Rly At the rector; here John Wesley was born Pop 1836

Equation in algebra a statement or formula expressing the equality of two quantities. The two parts of the equation are separated by the sign of equality, as for example,  $3 \times 21$ .

The term chemical equation is used for the

symbolic representation of a chemical reaction symbols of the reacting substances being placed on the left and those of the substance produced by the reaction on the right, as in  $H_1+CI_1=2$  HCl

H.+C1.-2 HC1
Equator
Circle drawn round the earth equally distant from the poles
Its plane cuts the earth's axis at right angles
and it divides the globe into two halves,
the northern and southern hemispheres
Latitude is measured north end south of the
equator by small circles parallel to it, the
equator being regarded as 0° of latitud.
At the equatorses the sun at noon is directle

upon the king on ceremonial occasions Duke of York and other members of the royal family have equerries

Equilibrium State in which forces so determined that they balance one another, giving no resultant at any point. In the case of a heavy body resting upon the ground, the weight of the body and the normal reaction of the ground are exactly equal and opposite
If a body returns to its position after being
moved it is in stable equilibrium.

Equinox lies in the plane of the carries Period when the equator orbit and day and night are equal in length in all parts of the world The vernal or spring equinox occurs on March 21-22, the autumnsi equinox on Sopt 21-22 The vernal equinox also marks the point in the heavens where the sun crosses the equator, this position being known as "the first point of Aries"

Equitation Horsemenship, especially for military purposes. The British army has a school of equitation at Weedon and there is one for the Indian army at Saugor

Equites (Lat horsemen) Name of a class in Roman society ranking between the senators and the commoners Originally applied to those wealthy enough to serve us horse soldiers the term became, on the development of the raid army, somewhat synonymous with knights

Equity (Lat. acquus, equal) Term desomething based on the law of mature, not on legislation In England in early days there were many cases where right could not be done, or wrong redressed, by the processes of the ordinary law It became the custom to refer such cases to the chancellor as the keeper of the king's conscience Ignoring the common inw, he gave decisions according to the principles of equity, and in time a body of law and precedents grew up which was known as equity. This was administered by the court of chancery which proceeded usually by way of injunction and specific performance. Within its scope and specific performance. Within its scope were all matters relating to trusts, etc., and others for which the common law did not pro-Since 1877 all the courts have administered both common law and equity, which is therefore no longer the sole privilege of the chancery courts

An equity of redemption is the right which the mortgager has to redeem the mortgaged property on payment of the mortgage money and interest although the mortgage is in messession. The right is lost if the mortgages has exercised his power of sale or has completed a foreclosure

Era Epoch from which years are counted and the series so reckoned An historical event usually determines the choice, the Greek Olympiads, from 776 B.C., the Greek Olympiads, from 776 B.C., the Roman from Rome's foundation 753 B.C., the Hindu Saka, from a D 78 the Mohanmedan, from a D 622 and the Christian from Christ cku irds

Erasmus Desiderius Dutch scholar Born at Rotterdam Oct 23, 1466, he was an illeritimate son of a certain General who figures in Charles Reade's novel.
The Clouder and the Hearth He took his call Latin half Gral br which he is known He was educated at Leventer and was for six Roman rule.

The years an Augustinian monk In 1496 he visited toyal England, and became a close friend of Sir Thomas More He studied Greek with Linacro and afterwards taught that language at Cambridge, where he was Lady Margaret Professor of Divinity In 1517 he settled at Louvain and in 1521 at Basel, where he died, July 12, 1536

Erasmus was one of the great humanists In religion he was a Roman Catholic and by birth a Dutchman, but his intellect could not be confined to one creed or one nationality He sympathised with Luther and the Reformation but was too great a scholar to be a keen partisan

Trasmus did much literary work, chiefly editing the works of Latin writers, both secular and ecclesiastical His great edition of the New Testament, Greek text and Latin translation, appeared in 1516 Encomum Moriae or In Praise of Folly and Colloquia are true revelations of his mind His letters are interesting for their recognitions. are interesting for their comments on England as he saw it.

Raro Erbium stomic weight is 1677 and specific gravity 477 It exists as a slicete in metallic element the mineral gadolinite and a few other minerals Its oxide, erbia, obtained by ignition of some of its salts, is an earthy substance with a feint rose-red colour a character shared by other compounds of the metal

Erckmann-Chatrian 🏋 🔭 Name used  $t\pi o$ French writers for their joint work They were Emile Erekmann and Alexandre Chatrian, both natives of Lorraine Their literary partnership lasted for 30 years, from 1848 Their best works are those dealing with the They have been translated by, The History of a Con-Napoleonic wars into English notably, The History of a Conscript and Woterloo Their plays include the popular Polsh Jee, produced in London as The Bells Erckmann was born May 20, 1822, and died March 14, 1829 Chatrian was born, Dec. 18, 1826, and died Sept. 3, 1890

Ercole da Ferrara Name taken Productor Ercole di Giulio Ginndi Born about printer, Ercole di Giulio Grandi Born about 1462 he lived chichi at Ferrara, where he was employed by the duke Two of his pictures, "The Madonna and Child" and "The Conversion of S Paul" are in the National Gallery, London. He died in 1531

In Greek mythology, a god of the underworld He was the Erebus husband of Night, who bore mm Light and Day

Volcano of Antarctica In Victoria Land, it is situated on Erebus Ross Island and was discovered in 1841 by Capt James Ross It is 12,370 ft high and has been active in recent vea s

Erechtheum Temple at Athens It was the original same tuary of the tutelary deities of Athens, Athena Polins (Athena of the city), Posudon and Erechthens. It stood on the Acropolis, closto the Parthenon Burnt by the Persians in 480, it was rebuilt in the time of Pericles and was finished about 409

Eretria City of Greece Situated on the The Closter and the Hearth He took his Chaleis, its stubborn resistance to the Persian for her same, but soon chanced it to the one, advance occasioned its destruction in 190 no call Latin half Greak by which he is known. The importance declined under Vaccidation and Chalcis, its stubborn resistance to the Persian Its importance declined under Macedonian and American exervations at the

foot of the acropolis, 1890 95 exposed remains;

of theatre, temple and gymnasium

Erfurt City of Prussia, Germany It stands on the Gera, 14 m from Welmar, and is an important railway junction Its cathedral is one of the finest Gothic edifices in Germany and the palace was once the residence of the electors of Mannz The industries include the making of railway stock, machinery, clothing, etc., and the market for vegetables and flowers is important. Erfurt was once a member of the Hanseatic League In the Augustinian monastery Luther lived for some years In the 19th century its fortifica-tions were pulled down and its limits extended

greatly, as it became a busy manufacturing centre Pop 148 200

Erg In physics, unit of energy or work done force of one dyne moving through a distance of one centimetre Power is expressed in ergs per second.

Ergosterol Unsaponifiable part of a natural fat, storol (qv) Named from its discovery in ergot of rye, ergosterol is found also in yeast. It is present in minute proportion as an impurity of cholestorol found in all animal cells. When irradiated minute proportion as an impurity of choicetorio found in all animal cells. When irradiated by sunlight, ergosterol in superficial tissue cells (skin, etc.) yields up the anti-rachitic vitamin D essential to health. Ergosterol in solution, irradiated by ultra violet rays, is used to supply natural bodily deficiency in this vitamin, and is included in the 6th edition of the British Pharmacopocia

Ergot (Clauceps purpurea ) Fungus which attacks the flowers of cereals and grasses It shows three well marked stages grasses It shows three well marked stages in its life history, each stage being formerly regarded as distinct fungi. The honey dew, or sphacelia, stage consists of a network of threads ramifying through the overy and producing spores and honey dew, the winter, or sclerotium, stage forms a hard curved purplish body (ergot) and the spring, or escospore, stage which forms thread like spores Ergot of rape is used in medicine as a haemostatic and peristaltic agent. The eating a baemostatic and peristaltic agent The eating of bread made from rye or other grain infected with ergot gives rise to a condition of chronic poisoning known as ergotism

Ericht Loch of Scotland It is on the borders of the counties of Perth and Inverness and is 14½ m long. The River Ericht, which flows from it to Loch Rannoch 5½ m away is used to generate power for the national scheme for providing electricity. It has been widened and deepened and a dam has been built across it. has been built across it

Eridanus In Greek legend, a river god He was the son of Oceanus and Tethys and was called the king of rivers It is also the name of a constellation of stars part of which is below the horizon of the northern hemisphere

Eridge Village of Sussex It is 3 m From London, on the S Rly Eridge Castle, the seat of the Marquess of Abergavenny, is a modern building standing in a large park

Erie One of the Great Lakes of North America It is the most southerly of the five but the fourth in the chain and covers 10,000 sq m 1ts length is 250 m, and its greatest breadth 60

Its waters come by the River Detroit from the three higher lakes and pass by the Niagara River into Lake Ontario The Welland Canal a white ground.

(qv) enables shipping to pass between these two lakes One side of the lake is Canadlan and the other American On the American side are the great cities of Buffalo and Cleveland

side are the great cities of Buffalo and Cleveland Erie City and lake port of Pennsylvania. It is 88 m from Buffalo on Lake Erie, and is well served by railways There are a number of manufactures, but the shipping is of greater importance For this there is a fine natural harbour formed by Presque Isle, on which a French fort was built in the 18th century Pop (1930) 115,967

Erie Canal Waterway of the United States It is 361 m long and connects the Hudson with Lake Erie, its termini being Buffalo and Albany

Erin Name for Ireland Its origin is from the time of Thomas Moore's poems It occurs in the phrase Erin go bragh, or Erin

occurs in the phrase Erin go bragh, or Erin for ever

Erinus Variety of starwort, suitable growth and bears purplish blue or white flowers in early summer. It grows in the Alps flowers in early summer I and is called erinus alpinus

Eris In Greek legend, the goddess of distorted to the wedding feast of Peleus and Thetis, she throw a golden apple amongst the guests This was to be given to the fairest and was claimed by Hers, Athena and Aphrodite The question was submitted to the judgment of Paris

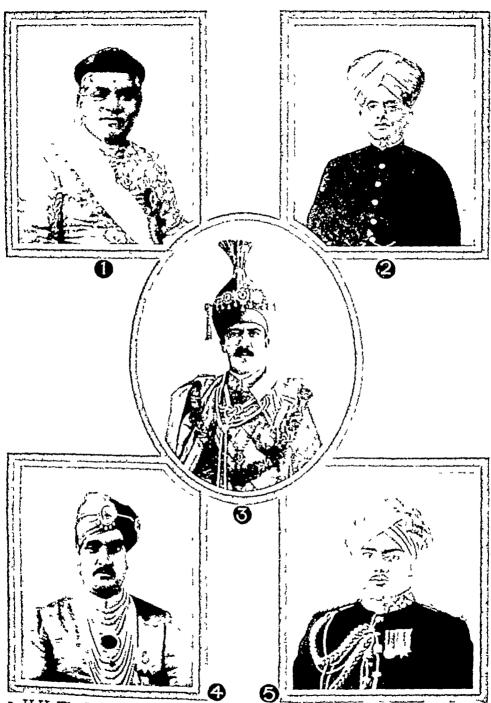
Erith Urban district of Kent It is on the Thames 14 m from London, and is served by the S Rly It is an engineering and yachting centre At one time a borough and a naval station, Erith became an industrial district in the 19th century Pop (1931) 32,780

Eritrea Colony of Italy It is on the Red Sea, with a coastline of 670 m Its other boundaries are the Anglo Egyptian Sudan and Abyssinia Asmara is Egyptian Sudan and Adyssina Asmara is the capital The ports are Massawa and Assab The area is 45 754 sq m and the population (1931) 621,776, of which 4681 are Europeans Sheep, goats and camels are kept and the products include ostrich feathers, palm nuts and hides Some gold is found There the products include ostrich feathers, palm nuts and hides Some gold is found. There is a railway line 258 m long from the sea to the capital and beyond. Italy took possession of the land in 1885, and it was formed into a colony in 1889. The earliest Italian attacks on Abyssinia were launched from Eritrea.

Erivan Armenia or Hynstan It was formerly the capital of the Trans caucasian Government of Erivan, and stands on the Sanga 40 m from Ararut. Erivan was ceded to Russia by Turkoy in 1828. Pop 75,000

Erl-King In German mythology an evil forest spirit He was inimical to children and was gigantic, draped, bearded and crowned with gold, Herder's Simmen der Voller, 1778, in translating The Fly King's Daughter confounds elle (Danish ell) with erle (German alder) The mistake was perpetuated and the Erl King established as an aider wraith

as an alder wrath (Musicia erminea) White fur, with black tipped tail. It is the winter coat of the stoat, which is native to Britain and to temperate and subarctic regions. It is largely used on state and judicial robes. In heraldry it is usually symbolised by robes In heraldry it is usually symbolised by black arrow heads crowned with three dots on



I H.H The Maharajah Gaekwar of Baroda, GCSI, GCIE 2 H.H The Maharajah of Mysore, GCSI, GBE. 3. HEH The Nizam of Hyderabad, GCSI, GBE 4 HH. The Maharajah of Jammu and Kashmir, GCSI, G.CIE, K.CIE, K.CVO 5 HH. The Maharajah Scindia of Gwalior.

foot of the acropolis, 1890 95 exposed remains

of theatre, temple and gymnasium

Erfurt City of Prussla, Germany It stands on the Gera, 14 m from Weimar, and is an important rallway junction. Its cathedral is one of the finest Gothic edifices Its cathedral is one of the finest Gothic edifices in Germany and the palace was once the residence of the electors of Mainz The industries include the making of railway stock, machinery, clothing, cto, and the market for vegetables and flowers is important Erfurt was once a member of the Hanscatic League In the Augustinian monastery Luther lived for come years. In the 19th century its fortificasome years In the 19th century its fortifications were pulled down and its limits extended

tions were putted down and its limits extended greatly, as it became a busy manufacturing centre Pop 148,200

Erg In physics, unit of energy or work done force of one dyne moving through a distance of one centimetre Power is expressed in ergs

Per second

Ergosterol Unsaponifiable part of a natural fat, sterol (qv)

Named from its discovery in ergot of rye, ergosterol is found also in yeast. It is present in minute proportion as an impurity of cholesterol found in all animal cells When irradiated by sunlight, ergosterol in superficial tissue cells (skin etc.) yields up the anti-rachitle vitamin Dessontial to health Ergosterol in solution, irradiated by ultra violet rays, is used to supply natural bodily deficiency in this vitamin, and is included in the 6th edition of the Brutsh Pharmacopoeta Pharmacopoeia

Pharmacopoeia

Ergot (Claviceps purpurea) Fungus which attacks the flowers of cereals and grasses It shows three well marked stages in its life history, each stage being formerly regarded as distinct fungi. The honey dew, or sphaceina, stage consists of a network of threads ramifying through the overy and producing spores and honey dew, the winter, or scleroium, stage forms a hard curved purplish body (ergot) and the spring, or escospore, stage which forms thread like spores Ergot of rape is used in medicine as a haemostatic and peristaltic agent. The eating a haemostatic and peristaltic agent The eating of bread made from rye or other grain infected with ergot gives rise to a condition of chronic poisoning known as ergotism

Ericht Loch of Scotland It is on the borders of the counties of Perth and Inverness and is 141 m long. The River Ericht, which flows from it to Loch Rannoch is mayn is meed to represent a country to the country to th 5) m away is used to generate power for the national scheme for providing electricity It has been widened and deepened and a dam

Eridanus In Greek legend, a river god and Tethys and was called the king of rivers It is also the name of a constellation of starpart of which is below the horizon of the northern hemisphere

northern nemisphere Eridge of Sussex It is 3 m Eridge from Tunbridge Wells and 38 from London, on the S Rly Eridge Castle, the seat of the Marquess of Abergavenny, is a

 $(q\ v\ )$  enables shipping to pass between these two lakes. One side of the lake is Canadian and the other American. On the American side are the great cities of Buffalo and Cleveland

Erie City and lake port of Pennsylvania It is 88 m from Buffalo on Lake Erie, and is well served by railways There are a number of manufactures, but the shipping are a number of manufactures, but the shipping is of greater importance. For this there is a fine natural harbour formed by Presque Isle, on which a French fort was built in the 18th century Pop (1930) 115,967

Erie Canal States It is 361 m long and connects the Hudson with Lake Erie, its termini being Buffalo and Albany

Erin Name for Ireland Its origin is uncertain, but its general use dates from the time of Thomas Moore's poems It occurs in the phrase Erin go bragh, or Erin

occurs in the phrase Erln go bragh, or Erln for ever

Erinus Variety of starwort, suitable for the rook garden It is of low growth and bears purplish blue or white flowers in early summer. It grows in the Alps

flowers in early summer It grows in the Alps and is called erinus alpinus

ETIS In Greek legend, the goddess of distress of the wedding feast of Peleus and Thetis, she threw a golden apple amongst the guests This was to be given to the fairest and was claimed by Hera, Athena and Aphrodite The question was submitted to the judgment of Paris

Enth Urban district of Kent It is on the Thames 14 m from London, and is served by the S Rly It is an engineering and yachting centre At one time a borough and a naval station, Erith became an industrial district in the 19th century Pop (1931) 32 780

Eritrea Colony of Italy It is on the Red Sea, with a constline of 670 m Its other boundaries are the Anglo 670 m Its other boundaries are the Anglo Egyptian Sudan and Abyssinia Asmara is the capital The ports are Massawa and Assab The area is 45,764 sq m and the population (1931) 621,776, of which 4681 are Europeans Sheep, goats and camels are kopt and the products include ostrich feathers, palm nuts and hides Some gold is found There is a railway line 258 m long from the sea to the capital and beyond Italy took possession of the land in 1885, and it was formed into a colony in 1889 The earliest Italian attacks on Abyssinia were launched from Eritrea

Abyssinia were launched from Eritrea

Erivan Armenia of the Soviet Ropublic of
Armenia or Hyastan It was
formerly the capital of the Trans caucasian
Government of Erivan, and stands on the
Sanga 40 m from Ararut Erivan was ceded
to Russia by Turkoy in 1828 Pop 75,000

Erl-King in German mythology an Erl-King evil forest spirit. He was inimical to children and was gigantic, draped, passed and crowned with gold, Herder's inimical to calluren and was gigantic, graped, bearded and crowned with gold, Herder's Stimmen der Volker, 1778 in translating The Fif King's Daughter confounds elle (Danish elf) with erle (German alder). The mistake was perpetuated and the kri King established

ETIE One of the Great Lakes of North America. It is the most southerly of the five but the fourth in the chain, and covers 10,000 sq m. Its length is 250 m, and its greatest breadth 60. Its waters come by the River Detroit from the three higher lakes and pass by the Magara River into Lake Ontario. The Welland Canal



I. H.H The Maharajah Gaekwar of Baroda, GCSIGCIE 2 HH The Maharajah of Mysore, GCSI, G.BE 3 HEH The Nizam of Hyderabad, GCSI, GBE 4 HH The Maharajah of Jammu and Kashmir, GC.S.I., GCI.E, K.C.I.E, K.CVO 5. HH The Maharajah Scindia of Gwalior

Ermine Street Early English name landers, who themselves called it Gaelic Nowadays it sometimes denotes the Goidelic highway leading from London through Lincoln to York and Hudrian's Wall It was one of four reputedly enjoying royal protection, and coincided in part with the Romano British road system

Erne Old English name of the brown, white-tailed, sea eagle (haliactus albinlla) Distributed throughout northern regions, it formerly bred in the wildest parts of Scotland and Ireland Though distinguished by its broadscaled toes and lack of leg-feathers, it is often confused with the golden eagle. The female sometimes reaches 3 ft in length

Erne River and lake of Ireland The river rises in Longford and passes through the counties of Cavan and Fermanagh Near Ballyshannon it enters ts length is 72 m Enniskillen into Donegal Its length is 72 m Donegal Bay is the chief town on its banks It passes through two lakes called upper and lower Lough Erne The upper is 13 m long and the lower 20 m. and between them there is a distance of 10 m In both are many islands and the lakes are rich in fish

The Irish title of Earl of Erne has been borne since 1789 by the family of Criehton The family seat is Crom Castle, Fermanagh, and the carl's cldest son is called Viscount

Crichton

Ernest King of Hanover Fifth son of George III. of Great Britain, he was born at Kew, June 5, 1771, and educated at Göttingen, became an officer in the army of Hanover and saw service against the French In 1799 he was created Duke of Cumberland and Toviotdale and for over 30 years took part in English polities as an antagonist of reform In 1837, on the death of William IV, he became King of Hanover and ruled that country until his death, Nov 18, 1851

Eros Greek name of the god Cupid (qr) It is also the name of an esteroid, discovered in 1898, when it came nearer to the earth than Mars In 1901, and again early in 1931, it approached the earth, in the latter year, as near as within 16 million miles

Erosion Denudation of the earth's surface by the action of wind, rain, the atmosphere, ice, rivers and sea By these agents the forms of hills and valleys, cliffs and shore gradually become modified, rivers deepen their channels and slit up their estuaries, and lakes become marshes or dry valleys Sec COAST

Erroll Earl of Scottish title held by the family of Hay It was given in 1453 to William Hay, constable of Scotland, and has since been held by his descendants. The carl is still leaf high constable of Scotland. The earl is still lord high constable of Scotland His estates are in Aberdeenshire cldest son is called Lord Kuln armock The earls

Victor Alexander Hay (1876-1928), the 20th carl, was in the diplomatic service. In 1919 he was sent to Berlin as the first British reprecentative there after the war From 1921-27 he was British high commissioner in the illineland, being known as Lord Kilmarnock until he succeeded to the title on his father's death, July 8 1927 He died Feb 19, 1928 Josslyn Victor Hay, the 21st earl, was born in 1901

language group embracing Scottish Gaelic, Irish Gaelic and Manx

Erskine Baron Scottish lawver Thomas Erskine, born in Edinburgh, Jan 10, 1750, was a son of the Farl of Buchan He was called to the bar in 1778 He sat in Parliament as a Whig in 1783, and again in 1790-1806 In 1806 he was made lord chancellor and a peer, but held office only for a few months He died Nov 17, 1823

Henry Erskine, Erskine's elder brother, was also a successful lawyer. He was lord advocate of Scotland in 1783 and again in 1806 07 died Oct 8, 1817

Ervine St John Greer Irish writer. Born in Belfast, Dec 28, 1883, he early began to write plays and made his name as a dramatic critic Among his plays are Jane Clegg, Mary, Mary Quite Contrary and The Second Mrs Fraser He has also written novels, including The Foolish Lovers and The Navieard Man, short stories, and Lives of Parnell and General Booth The Theatre in My Time appeared in 1933

Erysipelas Acute contagious disease, characterised by reduces of the skin, especially of the face. It is due to a specific micro-organism, Streptococcus pyogenes, introduced through a wound or abrasion, sometimes in the tear duct, or through a cat whilst shaving Clothing and bedding may convey it There is sometimes swelling and delirium Attacks last from 7 to 21 days, but are usually followed by a recovery Ichthyol, iron perchloride and other internal preparations are sometimes administered, in jections of antistreptococcic scrum often, but not invariably, prove beneficial

Erzerum City of Turkev It is 120 m south-east of Trebizond and lies to the north of Lake Van on the River Kara-su or Western Euphrates Situated in a wide pastoral plain hemmed in by mountain ranges it is an important town on the trade route between Persia and Europe Lignite and It was the scene salt are found near Armenian massacres in 1895 and 1915 30 S00

Erzgebirge Range of mountains in Central Europe They form part of the boundary between Savony and Bohemia, rising in places to over 4000 ft, and sloping gradually on the northern side and more precipitously on the south variety of metallic ores, chiefly lead, tin, copper silver and iron, abound on both Saxon and Bohemian sides

Esau Son of the patriarch Isaac, and his birthright to his brother for a med of lentils, and thereby lost the paternal blessing

Esbjerg Scaport of Denmark The conhas transformed it from a small village into the chief port of West Jutland Fishing is an important industry and its exports include

bacon, dairy produce, beef and cattle (1930) 27 405

Escalator Moving stairway I stations on the London tube railways many Erse Word denoting the Celtic population, driven by electric power and consists of an end-their speech and writing it anciently migrated from XE Ireland to Scotland and because of its Irish origin, Lowland Scots and bottom of the escalator, each step being specially the proof to the speech of the Rich Consists of an end-their power and consists of an end-their pow applied the word to the speech of the High- set in the same line. It requires less attention ESCARPMENT

than the ordinary type of lift.

Escarpment steep abrupt slope of strata. It is due to the denudation of the strata underlying beds leaving the outstanding softer underlying beds leaving the outstanding hard rock as a cliff like ridge in one direction, and a gentile dip slope in the other one of the commonest forms of land surface. it occurs and a gentie dip slope in the other One of the commonest forms of land surface, it occurs usually in areas of gently inclined, beds The North and South Downs, the Cotswolds, Snow don and Sosfell show good examples of

escarpments Word meaning the return of Escheat land to its original owners. In feudal times the theory was that land was without heirs it reverted to him similarly, land let out to vassals by other landowners land let out to the under like conditions. Until abolished in 1925, it was the law of England that the land of all who died without heirs reverted to the crown

Escudo tries, It replaced the milrels ESCUDO Coin current in various coun line in the milres in

FSCUIIA Palace in Spain, one of the Palace in the world Designed largest in the world Designed to Philip II it is situated amid the mountains the escudo is current. for Philip II it is situated amid the mountains, 26 m from Madrid The form is rectangular and the style Doric In the centre is a fine church and the Pentheon where the bines and and the style Doric In the centre is a fine church, and the Pantheon where the kings and gueens of Spain are buried Among the buildings, which cover 10 acres, are also a convent and a valuable library

convent and a valuable library

Books of First two apocryphal

Books of the Old Testament

The Vulgate calls the canonical books Ezra
and Nehemiah 1 and 2 Esdras, making these
and Nehemiah 1 and 2 Esdras, making the
and ribrally repeats the last two chapters
of 2 Chronicles, followed by Ezra and Nehe
earlier virtually repeats the last two chapters
of 2 Chronicles, followed by Ezra and Nehe
earlier virtually repeats the last two chapters
of 1 Chronicles, followed by Ezra and Nehe
earlier virtually repeats the last two chapters
of 1 Chronicles, followed by Ezra and Nehe
earlier virtually repeats the last two chapters
of 1 Chronicles, followed by Ezra and Nehe
earlier virtually repeats the last two chapters
of 1 Twas written for Alexandrian Jews be
tween 300 B C and 100 B C seven visions
apocalyptic, ohiefly describing seven visions
vouchesfed to Ezra, and was probably written
under Domitlan A D S 1 96

Tech Town of Durham Situated 5 m

under Domiuan AD 81 96

ESh Town of Durham, It is near Ushaw of Durham, Roman Catholic Noor colliery Cuthbert, founded in 1804 for College of S Cuthbert, founded in 2004 The dispossessed seminary at Doual The Chief industry is coal mining Pop 10,175

Esher of London Hongs on the Esher of London Forming with the Dittons an urban district, it is 15 m from the City on the Salve once once still stands and a city on the Salve belonged to Wolsey and a tower of his palace still stands Later it was the residence of Lord D'Abernon, who sold it tower of his palace still stands Sandown in 1928 to the Shaftesbury Homes Sandown in 1928 to the Shaftesbury Homes the residence of Lord D Aberhon, who sold in 1928 to the Shaftesbury Homes Sandor Park racecourse is near Pop (1931) 17,075

Park racecourse is near Pop (1931) 17,075

Refler English title held william Baliol
Brett was born Aug 13, 1817 and educated at Westminster and Calus College, Cambridge He became a barrister in 1868 he was made He became and Calus College of the Rolls and in 1866 and the same year a ludge Conservative MP Longer Park of the Rolls and in 1883 he became Master of the Rolls and in 1883 he became Master of the Rolls and was In 1883 he became Master He retired and was Insense persons of different native speech between persons of different native speech last of the Rolls and was Insense persons of different native speech between persons of different native speech last of the Rolls and was Insense persons of different native speech between persons of different native speech last of the Rolls and was Insense persons of different native speech between persons of different native speech last of the Rolls and was Insense persons of different native speech last of the Rolls and was Insense persons of different native speech last of the Rolls and was Insense persons of different native speech last of the Rolls and was Insense persons of different native speech last of the Rolls and was Insense persons of different native speech last of the Rolls and was Insense persons of different native speech last of the Rolls and the Rol

and carries more passengers in a given time made a viscount in 1897 and died May 24, than the ordinary type of lift.

His son and successor Regional Relia Residence applied to the His son and successor Regional Relia Residence. 1899
His son and successor, Reginald Baliol Brett, the 2nd viscount, was born June 30, 1852, the 2nd viscount, was born June 30, 1852, and educated at Eton and Cambridge From and educated at Eton and Cambridge From 1880 85 he was Liberal M P for Penrhyn 1880 85 he was Liberal M P for Penrhyn Falmouth, and from 1895 to 1902 secretary for the Office of Works In 1904 he was chairman to the Committee of inquiry concerning the committee of the committee of inquiry concerning the War Office He was soint editor of The Letters of Queen Victoria He died Jan 22, 1930, when his son, Oliver, became the 3rd viscount, when his son, Oliver, became the 3rd viscount.

ESK Name of several British rivers One and Cumberland into the Solway Firth and

and Cumportaine is 36 m long The North Esk is formed by a union of the The North Esk is formed by a union of the lower law in the law i The North Esk is formed by a union of the Lee and the Mark at Invermark It flows through the counties of Forfar and Kincardine into the North Sea near Montrose and is 29 m

into the North Esk rises in the Grampians and The South Esk rises in the Grampians and enters for 40 m and enters flows through Forfar for 40 m and enters the sea at Montrose A small stream In Mid the sea at Montrose A small stream Dalkeith lothian is called the Esk It rises in Dalkeith lothian is called the Firth of Forth at Mussel Park and joins the Firth of Forth at Mussel

ESKIMO N American Indian people the Arctic coast from E Greenland for 5000 m westward across from E Greenland for 5000 m westward across the Bering Strait to Siberia and number about 30 000 They live by hunting the musk ox, rein deer and scal They occupy in summer conical skin tents, in winter earth buts half under ground called igloos Their one man skin canoes (kayaks) and larger cargo or women's boats (umiaks), show constructional skill

(umiaks), snow constructional skill

Eskimo Dog draught animal by the
Eskimos They are tamed rather than domes
ticated, the females being often crossed with
wild wolves from which they differ by having
the dog's characteristic upturned tail
the dog's characteristic upturned tail
are trained to pull sledges, and usually work in
four pair teams

are trained to pull sledges, and usually work in four pair teams

Esmond Henry Vernon Regulation of the Born Nov 3, 1869, he became an actor and playwright In 1859 he won a success with Bogey, and others followed Perhaps the most Bogey, and others followed Perhaps the most Popular are Eliza Comes to Stay, The Dangerous Age and Birds of a Feather He died April 17, 1922

Espalier Term denoting a lattice work or a row of timber stakes or a row of timber stakes or a row of truit trees bushes and flowering plants are trained its purpose is to provide freer air circulation, better exposure and nowering plants are trained. Its purpose is to provide freer air circulation, better exposure to the sun and easier access. The term also denotes the tree so trained, with a main stem whence the branches extend horizontally right and left in according tiers.

whence the branches extend horizontally right and lett in ascending tiers (Slipa tenacissima) and lett in ascending tiers (Slipa tenacissima) and the too S Spain and N Africa Also called halfa its grey green tufts serve when young a cattle food, but after several years furnish as cattle food, but after several years furnish as very tough and tenacious fibre useful for a very tough and tenacious fibre useful for making cables, baskets, matting sandals and paper Another grass lygeum spurium also supplies esparto libre It is an important ingredient in the making of paper

An international academy and a language committee, centred in Paris, exercise control More than 4000 books have been issued, 100 magazines appear regularly, and various commercial schools hold classes Annual international congresses are held, and nearly 50 broadensting stations systematically trans Esperanto is mit Esperanto programmes officially recognised as a telegraphic language

# Esquiline Hill See Rove

Esquimalt Scaport of British Columbia, Canada Situated on Van couver Island, it is 3 m from Victoria, and has a fine harbour It is a base of the Canadian Navy and has large docks, etc. Shipbuilding is the chief industry CP and CN Rhs The town is on the

Essay Trial or experiment. It refers now almost invariably to a written composition dealing with a single subject Some essays are literature of a very high order such as the Essays of Bacon and Montaigne, and Lamb's Essays of Elia Other notable essayists include Joseph Addison, William Haziltt, Lord Macaulay, Matthew Arnold, Robert Stevenson, and more recently Augustine Birrell,
May Beerbohm, E. V. Lucas, Arthur Symons,
Mrs. Meynall, G. K. Chesterton and Hilaire
Belloc. Notable. American essavists are Helloc Notable American essavists are Emerson, Holmes, and Lowell Pope's Essay on Man is in verse

Essen Town of Prussia It is on the West-phalian coalfield 22 m. from Düsseldorf and is well served by railways minster is one of the oldest churches in Germany Here are the gigantic engineering works of Krupp Before and during the Great War, these turned out huge quantities of war material. Pop (1931) 629,564

Essence Solution of the more important constituents of certain substances In most essences the solvent is alcohol but in a few water is used. In medicine drugs containing oils soluble in alcohol are sometimes used in the form of essences. Many alcoholic ecsences are used in perfumery

Essential Oils Oils, present in many plants, which tend to evaporate in contact with the air This propoits accounts for their alternative name of volatile oils. They form the principles which give around to plants, and are used in per fumery. The oils are obtained by steam distill tion, or by means of a volatile solvent and nuceration with fats or fixed oils

Essex County of south-east England lies just north of the Thames with a very irregular constline on the North Sea. It includes Canvey Merca and other districts which are islands a, high tide, also Epping Forest. The land is mainly flat, with some hills in the centre and

north west

The chici rivers are the Coine, Stour and Cr) th, which form large estuenes. The Thornes divides it from Kent and the Lea from Middlesex and Hertford Other rivers are the Black ater, the Chelmer and the Haling Chelmsford is the county town Other boroughs are West Ham Last Ham and Walthamston, which are within the London vice foldon, Colchester, Saffron Walden Sonthendon-Sea Harwich and Burking (made a borough in 1931) Harwich is the chief port

Phonetically spelt, it adopts about 2500, selected roots with 30 word-forming prefixes and suffixes, logically applied

An international academy and a language committee, centred in Paris, exercise control

members to Parliament. The population for the control of the administrative county was 1,198,601 in 1931 This showed the enormous increase of 278,460 during the 10 years, 1921-1931

The Essex Regiment, formerly the 14th and 56th Foot, dates from 1741 The castle and key on the regimental badge commemorate their service at the slege of Gibraltar (1779-Many battalions served in the Great War The regimental depot is at Warley

Essex Earl of English title held by the families of Bohun, Devereux, Capel and others The first Earl of Essex was appointed soon after the Norman Conquest, and one of the earls was the famous Geoffrey de Mandeville. The Bohun family held the earldom for some time in the 13th and 14th centuries and there were other earls, including Thomas Cromvell, created earl in 1540 1572 Walter Devereux was made Earl of Lesex and the title was held by his son and grandson, but became extinct in 1616 1661 Arthur Capel was made carl and his descendants still hold the title Casslobury Park, Watford, long the family seat, has been sold. The earl's eldest son is called Viscount blee Malden

ESSEX Earl of English courtier Robert Devereux, the famous favourite of Queen Elizabeth, was born Nov 19, 1566, and succeeded his father as 2nd earl in 1576 He was with the English forces in the Netherlands, and was sent to Ireland as governor-general in 1599 For leaving his post without permission, he was imprisoned Soon after his release he led a rebellion which was a failure and he was executed Feb 25, 1601

His son, Robert Devereux, born in 1591, was restored to the earldom in 1604 He, too, was a courtier and a soldier, seeing service in Germany and against Cadiz In 1642 he was appointed commander in-chief of the parlia-

mentary army and he kept that position until 1645 He died Sept. 14, 1646
Es Sinn Village of Iraq, or Mesopotamia It is 7 m from Kut-el-Amara, and here in Dec. 1915, the Turks had a strong position This was attacked in March by the British force advancing to the iclief of Kut, but It was found impossible to dislodge the Turks before the garrison under Sir C Townshend surrendered

Establishment Position of some re-

lation to the State

An established church is An established church is one officially recognised as the church of a nation. Generally such recognition has a legal basis and is coupled with State endowment. Christianity was first made a State religion by the Emperor Constantine in the 4th century After the Reformation the English Church became established, but not the (Presbyterian) Church in Scotland It was partly an objection to State control which later led to the founding of the In-dependent and Baptist Churches

Town of France It is 13 m from Lille and was the scene Lstaires of much fighting in 1918. On April 10, 1918, after a fierce fight, the Germans captured it from its British defenders but they were uriven out in the following September

Estate Term used for property, especially landed property. It may refer

to a considerable amount of land, owned by a to a considerable amount of mind, owned by a single person, or to the whole of a person's property Originally it meant a state, as in the Prayer Book. The good estate of the

the Prayer Book, Catholic Church " Estate agent is the term used for a man who ndertakes to manage and to buy or sell undertakes There is a college of estate manage underwises to manage of estate manage property There is a college of estate manage ment at 35 Lincoln's Inn Ficilds, London, WC 2 Estate agents are usually paid by a percentage on the amount they collect of This is 5 per cent. on small mounts grading down to 14 per cent. on amounts grading down to 14 per cent.

Estate Duty Name given to one of the duties paid on the money left by persons at death The other duty is the legacy duty The estate duty is the legacy duty The ostate duty as introduced in 1891, and is payable on all property left. It is graduated according to the amount In 1930 the scale was fixed as follows

In 1930 t	TIO PCC.		g per	cent
	PT 11017		3	n
£500 to	#K 000		4	**
£1 000	e in 000		5	
£3 000	*10 DUU		6	++
£10 000 "	01K (100			
m 2 500	#15 00U		8	**
~1K OUV	~01 (HUU		9	**
£18 000	~>8 000		10	**
~>1 000	ያ የ የ የ የ የ የ		11 12 11	**
£25 000	2000		12	
£20 000	240 000		10	
£35 000	4, 000		14	**
£10 000	£50 000		unt	11 it
		1009		

From this the rate rises until it becomes From this the rate rises until it becomes 40 per cent on an estate between £1,000,000 and 50 per cent on an estate worth £2 000,000 and over Money or property given away during the three years before death is charged with duty. estates under £500 pay given away during the three years before death is charged with duty estates under £500 pay estates under £500 pay in inclusive fee of 50s or 30s which include all charges interest at the rate of 4 per cent all charges

Este Famous Italian family from Padua Dating from about 1000 its earliest members of Dating from about 101 its earliest members were lords of Este 11452 one of them was made Duke of Modera and then Duke of Modera Beatrice (1475 97), Duchess of Milliam Beatrice (1475 97), Duchess of Milliam Perrara famous for her beauty and culture Another notable member was Ippolito d'Este, who became a cardinal and built the Villa d Este at Tivoli The family lived in great state at who became a cardinal and built the Villa d Este at Tivoll The family lived in great state at Tivoll The family lived in great was taken and to the family from them and, in 1803, Ercole, the last male from them and, in 1803, Ercole, the last male from them and, in 1803, Ercole, the daughter member of the family died His daughter member of the family and their son regained Trancis I of Austria and their son family of Prancis I of Austria and their son Hodena, which was held by the family of Hopsburg Este until 1859 Maria Beatrice wife of James II, was a member of the Este family

Napoleon He was offered the kingship of the

Napoleon He was offered the kingship of the Magyars in 1809, but refused the honour Paul Anthony (1786 1866) was ambassador in London after the Napoleonic wars, and in 1848 was foreign minister in the first responsible Hungarian ministry He died in comparative poverty, the fruit of his reckless extravagance

poverty, the fruit of his reckiess of the Old Testa
Book of Book of the Old Testa
It narrates an episode at
the court of the Persian King Ahasuerus
Susa 5th century B o the court of the Persian King Anasuerus (Nerxes) in Susa, 5th century BC The royal consort Vashti was deposed, and her place taken by Esther, related to a Jewish exile taken by Esther and Mordecai frustrated the lordecai Esther and Mordecai against the Nordecai Esther and Mordecai frustrated the plots of the grand vizier, Haman against the Jowish people, whose deliverance was there after commemorated by the Purim festival vitten after 300 B c the Book of Esther was expanded by Maccabean additions which form a separate section of the Old Testament was expanded by Maccadean additions which form a separate section of the Old Testament

Estimate a provisional valuation in building printing and other business trans actions it is usual for the prospective customer or client to ask for a statement giving an estimate of probable cost. Ho often asks for a statement giving and the companies of the often of the proposition of the other than the companies one with another in order to compare one with another in parliamentary procedure the proposed.

in order to compare one with another
In parliamentary procedure the proposed expenditure of the country is put before the form of estimates of Commons in the form of estimates of Commons and each shows the amount and other branches and each shows the amount of money required for the coming function and other branches and each shows the amount of money required for the coming financial year. After they have been passed the Chancellor of the Exchequer can frame his budget. Each year the House appoints a committee to examine the estimates and report on them.

on them Urban district of Yorl shire (N R Eston It is 243 m from London by the LNE Rly I on ore is mined, and there are Iron and steel works Pop (1931) 31,142 from and steel works Pop (1931) 31,142

iron and steel works Pop (1931) 31,142

Fron and steel works Pop (1931) 31,142

of the Baltic Sea, on the south is Latvia, of the Baltic Sea, on the south is Latvia, and on the east Lake Pelpus and Russia and on the east Lake Pelpus and Russia (1932) 1 120 000 The nearlitation of the Tartiu (Dorpat), where is the national university The republic is divided into oloven districts and includes Ocsel Dago, Moon and eity The republic is divided into oloven districts and includes Ocsel In religion and people are chiefly Lutherans

People are chiefly Lutherans

Russia, and before then part of 1918, and the includes of the people are chiefly Lutherans of 1918, and the incomplete of the part of 1920 was recognised by Europe 101 1920 was recognised by Europe 1020 was recognised by Europe 104 in 1920 was recognised by Europe 105 was reas and adult citizens for firme members elected by all adult citizens for prime assembly chooses the minister and the other ministers Agriculture, minister and the other ministers are grown wheat. barley oats and potatoes are grown wheat.

wife of James II, was a member of the Este and polynomial to the family of Galantha. Noble Hun 1920 was recognised by Europe 100 in 1920 was recognised by Euro

Etaples Town of France It is 17 m from Boulogne at the mouth of the little river called the Canche Fishing is carried on and there are some small industries In 1492 the treaty of Ltaples was made between Henry VII and the French king Pop 6000

During the Great War Etaples was an important British base, with training grounds, hospitals, etc There is now a large cemetery

near the town

Etching Method of engraving on metal The design is engraved by means of an ecid solvent or by the use of special tools for cutting directly on the metal to the acid process the metal plate (generally of In the acid process the metal plate (generally of copper) is covered with a ground or coating of wax, bitumen or other resinous material, the design or drawing being traced through the ground by means of fine or coarse steel points or etching needles. The plate is then treated with nitric acid, or other solvents in the case of other works. other metals, and on completion of the process the wax laver is removed by the use of tur-pentine Albrecht Dürer was one of the earliest etchers, and Rembrandt the greatest.

Ethelbert King of Kent A descendant of the Saxon invaders of England he is believed to have reigned between 560 and 615 Counted as one of the bretwaldas or overlords of Britain, he issued some laws which are still extant, but he is best known as the husband of Bertha, a Frankish princess and a Christian, who invited missionaries to Fngland In 597 he was baptised by S Augustino

Ethelred Name of two English kings Ethelred I, a son of Ethelwulf, King of Wessex, became king in 866 in succession to his brother Ethelbert He spent his time fighting the Danes being assisted by his young brother Alfred His death on April 23, 571, was caused by wounds received

in battle

Ethelred II, was a son of King Edgar He began to reign in 973, when only ten, and was on the throne for nearly 40 years His inability to deal with the Danish peril won for him the name of the Unready He began the payment of Danegeld, and in 1002 was responsible for a massacre of the Danes. He died in London. April 23, 1016 died in London, April 23, 1016

Ether Colourless, volatile and very in flammable liquid It is prepared by distilling alcohol with sulphuric acid Owing to its solvent action upon fats, oils, resins and alkaloids, it is used in the preparation of coal tar dyes, artificial silk, cordite, collodion and many medicinal compounds, and in wet

plate photography

As it evaporates rapidly, producing a sensation of cold ether is used as a local annesthetic in minor operations. It is also used by inhalation, as a general anaesthetic, since it causes less depression on the heart than chloroform. It therefore medicinal purposes is prepared from pure alcohol, but for ordinary commercial use from metalying alcohol. commercial use from methylated alcohol

Ether Name given to the subtle medium that was assumed to fill all space (including that between atoms and electrons), in order to explain the propagation of light, heat and other electro magnetic waves. The heat and other electro magnetic waves. The necessity for the assumption of such a medium has now been overcome

Etherege Sir George English drama-tist. Born in 1634, he became a lawyer and a courtier. In 1664 his comedy,

The Comical Revenge or Love in a Tub was produced in London, followed by She Would if She Could and The Man of Mode From 1685 to 1688, he was ambassador in Ratisbon, and died in 1690

Ethics Science of moral values Zeno of Citium in Cyprus, in the 3rd century BC was one of the first to set up a scientific system of ethics Virtue is the only good and baseness the only evil, all else is adiaphora (indifferent) The correct knowledge of virtue is acquired by phronesis (practical wisdom), and the aim of life should be "to live in complete agreement with nature" The wise man knows and can do everything, he is rich in poverty, free in chains, happy in sickness, even at death

Ethiopia Official name for Abyssinia The name was used by the Greeks for the people of Africa in general who, to them were hthiopians, meaning "people with burned faces" They are mentioned in both Homer and Herodotus In the 11th century BC there arose a kingdom of Ethiopia and early in the Christian era another was set up Sec Abissinii

Ethnography Description and classification of human races and peoples according to their geographical distribution It furnishes the material for ethnology

Ethnology Study of the distribution and development of human races It treats of those racial distinctions which attend the material and intellectual elements of human culture, calling in the aid of specialised inquiries dealing with the primary needs of food, clothing and shelter, and the social, artistle, economic, political and religious elements in human life

Assuming a single origin for mankind, the ethnologist makes a general classification of past and present races, which he summarises as brown, black, yellow and white He finds that racial admixture has been operative throughout all human history, and that physical development is unaffected by language what there have been appeared to the physical development is unaffected by language. relationships, there being peoples, eg the Celts, united more closely by speech than by race. The study of tribal customs and relations is of importance in the administration of native peoples.

Ethyl Organic radical, or group of atoms capable of behaving like an element having the chemical formula C. H. It forms a number of important compounds, such as number of important compounds, such as ethyl alcohol, ethyl chloride and ethyl nitrate Of recent years the term ethyl petrol has been used for petrol containing lead tetraethyl to form an "anti-knock" compound

Ethylene Colourless gaseous hydrocarbon It was formerly known as oleflant gas and is prepared by strongly heating alcohol with sulphuric acid Ethylene in the color of the strong in t nearing alcohol with sulphuric acid Ethylene is very inflammable, burns with a luminous flame and is explosive when mixed with oxygen A considerable quantity of ethylene is present in coal gas and imparts to it much of its luminosity. Several of its compounds are of value eg, ethylene bromide which is used in medicine and in the preparation of ethyletery. petrol

Etive Sea loch of Scotland It is an opening of the coast of Argylishire and is about 20 m long. The River Etive which flows into it, is noted for its salmon

Etna Volcano of Sicily. It is situated near the east coast and rises gradually to

Etna is famous in classical mythology, chiefly perhaps as the place where Vulcan had his

forges.

Eton Town and urban district of Bucking-hamshire It stands on the Thames opposite Windsor, which is its station, and is

opposite windsor, which is a statent, and is 21 m from London. Pop (1931) 2005

ETON COLLEGE. One of the great public schools It was founded in 1440 by Henry VI
The head of the foundation is the provost, but the headmaster is the head of the school It consists of about 1114 boys of whom 70 have scholarships and live in college The rest are oppidans and live in houses outside the college The school has its own customs and games, including the wall game of football Many great men have been educated here

Etretat Watering place of Normandy 16 m from Havre The attractions include a casino, gardens and bathing Pop 2000

Etruria District of Italy, now known as Tuscany Before the rise of Rome it was inhabited by a people who have left traces of a remarkably high civilisation, to which it is almost certain Rome owed a good deal. The sculptured tombs and the paintings found on vases and other pottery display not only a keen artistic sense, but also the possession of gold, silver and other metals used for decorative purposes. The Etypeans were also The Etruscans were also purposes tive acquainted with music

Etruria District of Staffordshire now included in the city of Stoke on Trent. It has a station on the LMS Rly Josiah Wedgwood opened his pottery works here in 1769, imitating Etruscan and other ancient vases

Etruria marls are beds of marl and clay found in the north and midland counties of England and used for the making of pottery

Ettrick District of Scotland, called Ettrick Forest A forest only in name it is chiefly in Selkirkshire, with portions in the countles of Midlothian and Peebles The kings of Scotland hunted here The poet, James Hogg, is known as the Ettrick Shepherd Ettrick Water is a river of Selkirkshire It is 32m long and joins the Tweed near Selkirk Ettrick Pen is a hill in the county It is

Etty William English artist Born at the Royal Academy School and under Sir Thomas Lawrence Elected R A in 1828 be was a brilliant colourist and flesh painter His best known works are Youth at the Prow in the National Gallery, London, The Combat in Edinburgh, and Ulysses and the Strens in the Royal Institution, Manchester He died Nov Royal Institution, Manchester 13, 1849

Etymology Study of the derivation and original significance of words A modern study, much attention is paid to it by students of languages, especially in Germany In English there is a valuable Elymological Dictionary edited by W W Sheat

a height of about 10,865 feet, forming a large cone, cleft on one side by the Valle del Bove and a number of smaller cones. The base of the volcano covers over 400 sq m and consists of a large expanse of fertile soil. Over eighty eruptions have been recorded since the one described by Pindar in 476 B of The eruptions of 1923 and 1928 caused considerable damage.

Etna is famous in classical mythology, chiefly minerals and ores are mined here. Por 154,500 minerals and ores are mined here Pop 154,500

Eucaine Drug used as an anesthetic Prepared artificially, it is an alkaloid not unlike cocaine, but less powerful It is used by dentists

well, *kalyptos*, i) Genus of of the order (Gr Eucalyptus P.71 evergreen trees and shrubs of the order Myrtaceae The name is derived from the pro tective covering on the buds which is shed when the flowers open The blue gum, E globulus, yields an aromatic oil with antiseptic and medicinal qualities, which is used in affections of the throat and lungs The trees grow chiefly in Australia

Eucharist One of the names for the sacrament of the Lord's Supper The word, denoting thanksgiving, was applied to the consecrated elements, and then to the whole celebration, which passed into the sacrifice of the Mass At the Reformation the Anglican church adopted the term Holy Com-munion, some other Protestant churches adhere to the original name, the Lord's Supper The Roman Catholic Church and high churchmen in the Anglican church use the term Eucharist.

Euchre Card game It can be played usually by two players of the pack, the 2, 3, 4, 5 and 6 of each suit are discarded, and of the remaining cards the dealer gives five to each player, turning up the top one of the balance to fix the trumps Each player in turn can decide to play or to pass, if he plays he is entitled to the trump card in exchange for one of his own Two cards make a trick, three tricks make a point, and five points make a game Euchre can be played by four persons

Euclase Rare mineral It is composed of and aluminium and contains 17 per cent of beryllium oxide It is found at Minas Gernes in Brazil, in Austria and in the Ural Mountains in the form of extremely brittle stricted prisms, which may be colourless or yellow, green or blue

Euclid Greek mathematician He taught at Alexandria about 300 B o , and was the founder of mathematical literature his numerous works, we still possess his Stoichera (Elements of Mathematics), which were used until comparatively recent times as the foundation of all geometrical text books. They are in fifteen volumes, of which the thirteenth and fourteenth were added by Hypsicles Other extant works are Data, 95 geometrical propositions, and an astronomical treatise Phaenomena

Eucleides Greek philosopher He flour was a pupil of Socrates He founded the Megarion school which was chiefly known for its cultivation of dialectics The school unites the doctrines of Socrates with those of the Eleatics, and identifies that which exists with the good, that which is not good does not exist. The good is unafterable, one and similar, always the same, it is the intelligence, the reason, God. Eudiometer Instrument used for analysing gaseous mixtures It consists of a graduated straight or U-shaped glass tube sealed at one end and open at the other, with two platinum wires inserted near the closed end to allow of the passage of an electric spark. The tube is filled with mercury and inverted in a mercury pneumatic trough The gases are introduced and a spark passed through the mixture, the analysis being determined by the diminution of volume

Eudocia Name of two East Roman (1) Eudocia Augusta, a Greek sophist's daughter, was converted by Pulchoria, sister of Theodosius II, whom she married in 421 Banished in 440, she retired to Ierusalem, and was the author of several literary compositions (2) Eudocia Macrembolitissa was the consort of Constantine X At his death she married Romanus IV in 1068, but abdicated in 1071 to become a nun

Eugène
born in Paris, Oct 18, 1663, his mother being a Frenchwoman He served his life as an officer in the Austrian army, being almost continuously in the field He fought first against the Turks and then in Italy against the French In 1697 he won one of his great victories at Zenta, against the Turks In the war of the Spanish Succession he ranked with Marlborough as a leader of the Allies. The two won Blenheim together and later Oudenarde and Malplaquet, in the meantime Eugène had taken Turin

Having helped to make peace in 1714, Eucène was able in 1716 to command an army which defeated the Turks, and took Belgrade In 1734 he fought his last battles, once more against France, and died April 21, 1736

Eugenics Study of the factors which may improve or impair the physical and mental racial qualities of future generations. The modern science owes its inception to Sir Francis Galton  $(q\,v\,)$ , whose anthropometrical studies led to the collection of valuable statistics relating to the problems of inheritance. A further advance in eugenics was made by the Mondellan research into the laws governing the transmission of hereditary physical characters. There are now specialised branches dealing with such questions as the encouragement of procreation of children by individuals of sound stock the reduction and prevention of mental deficiency and general preventive measures of hygiene and social reform

Eugénie Empress of the French She was born at Granada, Spain, May 5, 1826, the daughter of the Spanish count of Montijo, her maternal grandfather was a Scot named Kirkpatrick She met the emperor Napoleon III in Paris in 1851, and the two were married in 1853 Her career was divided into two parts From 1853 to 1870 she was the centre of a brilliant and luxurious court, from 1871 to her death she was an exile in Lugland She lost her husband in 1873 and her only child, the Prince Imperial, in 1879 She lived at Chislehurst and then at Farnborough but died in Spain, July 11, 1920 She was buried at Farnborough

Eugenol Substance obtained from cloves It is obtained by distillation of the oll and also from the oil of the primento leaf. It is used in medicine as a carminative and in cases of toothache. It is also used to make vanillin

Eulenspiegel Tyl Apopular German character, and the title of a sixteenth century chapbook. The son of a peasant, born at Kneitlingen in Brunswick, in the fourteenth century, he played practical jokes and tracks on tradespeople, priests, princes, and especially innkeepers. In England, his tricks became anglicised, and were attributed to Robin Goodfellow.

Eumaeus In Gree's story, the swincherd mentioned in Homer's Odyssey. He was in the service of Penelope, during her husband's absence, and to him Odysseus made humself known when he arrived home in discrete.

Eumenides (The kindly) In Greek to the Erinves or Dirac (the Furies) Three in number, Tisiphone, Megacra and Alecto, they were the ministers of divine vengeance, who punished the guilty by plague, war and the stings of conscience After they had ceased to persecute Orestes for slaying his mother Clytacmnestra, they were called Eumenides, and a temple was erected by him in their honour They were represented in black garments, with serpents instead of hair The Eumenides is the title of a tragedy by Aeschylus

Eunuch Word denoting bedkeeper, applied to a chamberlain in Western Asia and Egypt, and, later, at the Byzantine court. He was generally an emasculated man, but the term was extended to any castrated attendant of bedchambers or of women's quarters in polygamous households, the position, in princely establishments, often conferring great political influence. At one time male choristers, retaining their boyish voices through castration, sang on the Italian stage, and even in the Sistine chapel, Rome, but the practice ceased in 1878.

Eupen Town of Belgium It stands on the Weser, 10 m from Aix-la-Chapelle, and is a busy industrial centre. The French name for it is Neaux. Pop. 14,000 Eupen is the capital of a fertile district or circle which has been a subject of European concern. It was part of the Austrian Netherlands before it become French in 1801. In 1811.

Eupen is the capital of a fertile district or circle which has been a subject of European concern It was part of the Austrian Netherlands before it became French in 1801 In 1811 it was given to Prussia, who retained it until 1819, when, with Malmédy, it was ceded to Belgium. The combined area of Eupen and Malmédy is 382 sq m, and the population 60,213 In 1925 they were joined to the province of Licge

Euphemism Figure of speech which describes an offensive or unpleasant thing in an indirect way An example is to describe a lie as a terminological inexactitude.

Euphonium Brass musical instruof the saxhorn family and is identical with the tuba in B flat. Its pitch is an octave lower than that of the cornet and it is the chief bass solo instrument in military bands

Euphrates Largest river of W Asia It is formed by the union of two rivers, the Kara Su and the Murad Su, which rise the former in the Dumlu Dagh, the latter in the Ala Dagh Piercing the Paurus Mountains, the stream flows south by west until nearing Aleppo it turns south-east and runs through Syria and Iraq joining the Ticris to form the Shatt-el-Arth 1t has a total length of 1800 m Babylon stood upon its banks

Euphuism Affected English prose style fashlonable in the late 16th

including the F R.S From 1884 to 1908 he was keeper of the Ashmolean Museum, Oxford, and he was twice president of the British Associa tion He has written several books on his

Evaporation Process by which a liquid passes into a state of vapour Evaporation is increased by the application of heat and by lowering the pressure upon the liquid H evaporation is carried out in a confined space at a given temperature. in a confined space at a given temperature a point is soon reached where the space becomes saturated with the vapour, equilibrium is established and the process ceases Boiling commences when the pressure of the saturated vapour, which increases with the temperature, becomes equal to the atmospheric pressure

Eve Name given by Adam to his wife, because she was "the mother of all living" (Gen iii 20) Her sons were Cain Abel and Seth The Genesis story describes her creation from a rib taken out of Adam's flesh as a "help meet for him," and her participation in the Temptation and the Fall

Evelyn John English diarist Born at Surrey, Oct 31, 1620, he was educated at Balliol College, Oxford A man of wealth, he spent some years abroad, and in 1052 made his post some years account Dattorn Fredware. spent some years abroad, and in 1652 made his home at Sayes Court, Deptford. Evelyn was secretary of the Royal Society, treasurer of Greenwich Hospital, and held other public positions. He wrote on agriculture, forestry, and a number of other subjects. He died at Wotton, Feb 27, 1708. His many friends, his wide knowledge and his acute intellect make his Diary one of the outstanding books of its kind and an invaluable mine of information concerning the life of his time. It was discovered in an old clothes basket at Wotton in 1817.

Evening Primrose Blennial herb biennis), of the order Onagraceae, a native of the United States A favourite in English gardens, it has flower stems four to five feet in height, bearing spikes of large yellow flowers which only open towards sunset

Everest Highest mountain in the world It stands on the borders of Nepal and Tibet and is 29 141 ft high It is named after Sir George Everest (1790 1866) Surveyor General of India In 1922 and again in 1924 expeditions under Col C G Bruce set out to reach the summit Both failed, but on the second occasion some of the clumbers ascended to over 28,000 ft In 1933, after elaborate proportion

In 1933, after elaborate preparations, another expedition was made over Mount Everest by the Houston Mount Everest Flight Expedition, led by Air Commodore Fellowes and the Marquess of Donglas and Clydesdale, and about the same time the Ruttledge Expedition attempted the climbing of the mountain. In 1936 Mr Ruttledge was a leader of a new ettempt on Mt. Everest

Everglades District in the South of It is hot and swampy and largely overgrown with vege tation, but parts have been drained and used for growing sugar In it are many lakes with islands It extends for about 120 miles from

Eversley Viscount English title borne by Charles Shaw-Lefevre Born Feb 22 1794 he was a member of parlia ment from 1830 to 1857 From 1838 to 1857 he was Speaker of the House of Commons He was made a viscount in 1857 and died Dec 23, 1888 when the title because extinct. 1888, when the title became extinct

Eversley's nephew, George John Shaw Lefevre, who was born June 12, 1832 was a Liberal M P from 1863 to 1895 He held office under Gladstone, 1869 74 and again 1881-84 In the Liberal ministry of 1892 95 he was first Commissioner of Works and then President of the Local Government Board In 1906 he was made a barron. In 1919 he multished a volume made a baron in 1919 he published a volume of Remnissences, and he died April 19, 1928 Baron Eversley did a great deal to preserve commons and footpaths for public use

Everton District of Liverpool On the north side of the city, it gives its name to a tonee originally made here

The Everton Football Club is one of the leading professional clubs playing the Association game. It was founded in 1879 and was one of the original members of the Football League. The club won the Association Cup in 1906 and

The club won the Association Cup in 1906 and 1933 and was champion of the League in 1891, 1915, 1928 and 1932 The ground at Goodison Park, Liverpool holds 60 000 people

Everyman English morality play Its authorship is unknown, but it dates from about 1500 Possibly a translation from the Dutch, it tells the story of Everyman s journey through the world, a journey which, by means of Death, God summons him to take

take The Everyman Theatre is at Hampstead, London, and was opened in 1920

Evesham Borough and market town of the Avon, 15 m from Worcestershire It stands on London on the G W Rly The town is the centre of a fruit growing district known as the Vale of Fvesham Pop (1931) 8799

The Battle of Evesham was fought here, Aug 4 1265, when Prince Edward afterwards Edward I defeated the barons under Simon de Montfort An obelisk marks the site

Eviction Turning a tenant out of his house or lands Before 1914 a landlord could evict a tenant without offering any reason, providing proper notice had been given Since the passing of the Rent Restriction Acts the tenant of a controlled house can only he evicted by an order of the court for non payment of rent or if the landlord requires the premises for his own use. The eviction of tenants was carried out on a large scale in Irriand during the land troubles late in the 19th century

Testimony or information given in a court of law By Evidence English law all evidence must be given on oath English law all evidence must be given on oath and one who gives false evidence can be prosecuted for perfury. The two main rules of evidence are that it must be the best available, primary evidence, as it is called and that it must be relevant to the issue. In the former case it means for example that a copy of a document will not be accepted as evidence if the document itself is in existence. If flearing evidence is not regarded as evidence although islands It extends for about 120 miles from north to south

Eversley 14 m from Basingstole Charles Kingsley, who was rector here, 1844 to 1875, is buried in the churchvard of the 13th-century church

EVIL EYE

Faculty of fascinating persons looking at them Belief in the evil eye, possession of which was involuntary, was common to the Hebrews, Greeks and Egyptians and the Hebrews, Greeks and Egyptians and duced He has the power to prohibit the acting of any play that is indecent

Magne sword of King Arthur sooning at them benefin in the evil eye, however soon of which was involuntary, was common to the Hebrews, Greeks and Egyptians and was rife throughout Europe in the Middle Ages, it still persists among Italian and Irish persants Most savage races have been found to believe in it. Charms and amulets as well as certain offencing and the same of the offencing and the same of the offencing area. certain offensive actions such as spitting, are supposed to avert it

Evolution Process by which plants and animals have developed by gradual modification from previously existing forms of life Evidences of such changes are afforded from anatom al and embryological data as well as from a study of fossil remains. It is only by reference to the theory of evolution that the resemblances and differences of structure in various groups of plants and animals can be satisfactorily explained. It elucidates also the appearance of features, permanent in lower forms, in the developmental stages of the higher animals, eg, the possession of fish-like characters and later of reptillan characters in the early stages of the embryo of a mammal Fossil remains, though necessarily incomplete, supply many indications of the evolution of complex types from simpler ones. In general the changes are progressive, but in some cases evolution is retrogressive

Evora City of Portugal It stands on a fertile plain, 72 m from Lisbon It contains a temple and other remains of a Roman colony, also examples of Moorish architecture. It is an archiepiscopal see and has a beautiful 12th century cathedral. The city walls still exist and Evora trades in wine and has textile industries Pop 16,148

Evreux City of Normandy It stands on the Iton in the department of Eure, of which it is the capital It is famous for its cathedral, which has been restored, but remains a wonderful monument of Gothic art. The city is an agricultural centre. At Old Evreux 4 m away, Roman remains have been found. Pop. 19,000

Ewell Village of Surrey It is 13 m from London, on the S Rlv, and a residential area for Londoners Between Ewell and Cheam is Nonsuch Park. Pop 3000

Ewing Str James Alfred Scottish scientist. Born in Dundee March 27, 1855 and educated at the University of Edinburgh he began his lifework as assistant to burgh he began his lifework as assistant to Lord Kelvin His first important post was Professor of Engineering at Tokio, 1878-83 Professor of Figineering at Tokio, 1878-83 Prom 1881 90 he was Professor at University College, Dundee and from 1890 to 1903 Professor of Mechanism and Applied Mechanism at Cambridge In 1903 he was made Director of Naval Education, and in 1916 Principal of Edinburgh University He retired in 1929 and died in 1925 During the Great War Ewing was a member of the Explosives committee His man honours included a knighthood (1911), an FRS, the presidency of the Royal Society of Edinburgh, and the presidency of the British Association (1932) Ewing did much for the Improvement of electrical apparatus improvement of electrical apparatus

Examiner One who conducts an exami-nation, or part of it Examiners are usually members of the teaching staff of a university or college

In the high court in London lawvers, called

examiners, are empowered to examine wit-

Excalibur Magic sword of King Arthur It was given to him by the Lady of the Lake to ensure his immunity from severe wounds and loss of blood After his final defeat King Arthur caused Excalibur to be east into the lake, whence a hand arose and drew it from sight.

Excavator Mechanical device for the removal of large quantities of earth or similar material. It is employed in building, mining and quarrying operations The crane, navvy or power shovel, used largely in quarrying, consists of a movable crane working a dipper at the end of an arm Another type is a modification of a dredger, with an endless chain of buckets having cutting edges. it is used for removing surface materials

Excess Profits Duty the British Government to meet the expenses of the Great War It was introduced in 1915, when it was 50 per cent on all profits made in business in excess of the normal The rate was raised to 60 per cent in 1916 and 80 per cent in 1917 Farmers and professional men were exempt. The tax was abolished in 1921 In 1920 21 it produced £186,000,000 A similar tax was introduced in the British Dominions and some foreign countries

Exchange In finance, the transfer of the money of one country into that of another The enormous volume of international trade and the amount of international loans make the question of the exchanges very important, and many firms are engaged in the business of buying and selling bills of exchange and other forms of currency Each day the rates of exchange are given in Each day the rates of exchange are given in the pipers, and a merchant in London can calculate exactly what he will get for goods he

sells in New York, Paris or Berlin
After the Great War there were serious
fluctations in the various rates of exchange
which made business very difficult, but gradually most of the countries stabilised their currencies, and to-day variations are usually very slight indeed. The rate of exchange is influenced by trade balances, the volume of gold in a country, and other such matters

Exchange Name for a building in which transaction of business In England the principal one is the Royal Exchange, London but this is no longer used for its original purposes Exchanges are now confined to a purposes single line of business, c g, the stock exchanges in London and other large cities; also the wool, lop and coal exchanges in London and the corn exchanges in many agricultural centres Membership is usually confined to those engaged in the particular business concerned

Exchequer Name given in England in Norman times and later, to the department responsible for collecting the king a revenue. The name comes from chequer, a board resembling a chequer or chess board being used to help in calculating the amounts due. The name survives in the Chancellor of the Exchequer and the Exchequer and Audit Department.

The exchequer was first at Winchester, but later removed to Westminster, and there is in

existence a book the Dialogus de Scaccario, which describes its working in the time of Henry II To an official meeting twice a year the shorter of the country can appear to the country can appear to the country can appear to the country can be considered. **EXCISE** the sheriffs of the counties came and accounted the sheriffs of the counties came and accounted The exfort the money they had collected The exchequer continued its duties, although the varied from time to time, until in 1834 its varied from time to the Treasury with duties were handed over to the Treasury with the Chancellor of the Exchequer as its head the Chancellor of the Exchequer as its head the Chancellor of the Exchequer and Exchequer with this was abolished in the 19th century and this was abolished in the court of exchequer, grew A law court, the court of exchequer.

until this was abounded in the 19th century of law court, the court of exchequer, grew out of the exchequer The judges of this were called harons and it lasted until 1876, when its called harons and exchange revenue cases were caned narons and it hasted until 1878, when its duties, chiefly concerning revenue cases, were handed over to the King's Bench division of the little Court

High Court
The Exchequer and Audit Department was set

The Exchequer and Audit Department was set up in 1866 to audit the public accounts. It is independent of the Treasury. The offices are in Victoria Embankment, London, Exchequer bonds are bonds issued by the British Government from time to time when the service of the control of the control

borrowed money since 1050

Word used for the duties levied produced within a produced within a produced within a produced, which country, as distinct from customs duties, which country as distinct from customs duties, which country as distinct from customs duties, which country as distinct from customs a country. borrowed money since 1696 country, as distinct from customs ditties, which is are levied on goods entering a country. Under the system of Free Trade every customs duty is a system of Free Trade every customs excise counterbalanced by a corresponding excise

duty

In England the earliest excise duties date from the 17th century, when they were placed on the 17th century, when they were added from the 18th century they became very and in the 18th century they became very numerous and their collectors the excisement, numerous and their collectors the excisement, were a detested class In the 19th century were a detested class In the 19th century were of them were removed and to day they many of them were removed and to day they are only levied on a few articles, chiefly beer spirits, patent medicines table waters and matches Licences for dogs, menservants, etc. spirits, patent medicines table waters and matches Licences for dogs, menservants, etc., and the extension to an also closed as matches Licences for dogs, menservants, etc., and the entertainment tax are also classed as from the excise duties in 1931 32 the total receipts from the excise duties was £110,843,470 and are collected by the Board of Customs and Excise, but before 1909 were collected by the excise branch of the Inland Revenue Depart excise branch of the Inland Revenue Exclusion of

offending members from the rights and privileges of a religious communion. It may be temporary be religious communion it may be temporary or permanent, partial or total. It is based in the property of the religious of the religious of the religious of the religious congregational assent, upon synagogue practice and early ecclesias upon synagogue practice and early ecclesias the tical procedure involved gradually assumed the but bishops, however gradually assumed the but bishops, however gradually assumed the prerognitive of excluding offenders for more offenders for heresy, VII first deposed a seaments for heresy, VII first deposed a monarch by excommunicating the process of the process of the religious communication of the religious process of t Excommunication members from the rights and privileges of a

matter In the process of perspiration (qt) water is discharged through the sweat glands water is the state this exerctory process adding tem 

EXECUTE AND ALL PROPERTY OF THE STREET OF TH

other streams rising on Exmoor It parties that the course of Exercity and Exmouth stands at its mouth

EXECUTION Act of carrying out some factor of law one kind of execution is a One kind of execution in the court is a One kind of execution in the court is a One kind of execution in the court is a One kind of execution in the court is a One kind of execution in the court is a One kind of execution in the court is a One kind of execution is a On

Another form of execution is putting a person Another form of execution is putting a person to death after sentence has been passed. This is done in Great Britain by hanging in France by the guillotine and in parts of the United States by the electric chair Until 1868 United States by the electric chair Formerly United States by the persons of rank and political offenders were persons of rank and political offenders were beheaded the last cases being in 1746 Soldiers and sallors sentenced to death are shot

Person appointed to carry out the provisions of a will out the will and, having the will and, having obtained the probate to wind up the estate of

Their duties are to prove the will and, having obtained the probate, to wind up the estate of the deceased person. They should first pay the debts and then distribute the remainder of the property as stated in the will. debts and then distribute the remainder of the property as stated in the will. An executor is liable for any breach of trust, but a legate lead of the passed. An executor is not entitled. An executor is not entitled. An executor is not entitled to any present of the legate is the passed. An executor is stated in the will that remuneration unless it is stated in the will that he is to be paid, but he can employ a solicitor to him and charge his expenses to the sate when money is left in trust the same estate when money is left in trust the same person is often appointed both executor and trustee. See Will.

Execute Exposition or interpretation.

EXECUTE See WILL Exposition or interpretation of Exposition or interpretation or passage, of the consideration of its original to the consideration of the consideration of the consideration of the pro-eminently of Holy Scripture It accepts the test as it stands, the consideration of its origin test as it stands, the consideration of its origin and authoriticity being the task of Biblical test and authoriticity being the task of Elizabeth to determine the exact criticism in the words of the words county town of December 1.

meaning of the words

Exeter City and county town of Devon

r-om London, and is served by the GW and
Shire The building is the cathedral
dedicated to S Peter, it was restored in the
19th century and contains interesting archive tectural and other features including a minstrols, and the contains of the tectural and other features including a minstrols' gallery Near are the bishop's palace and the college of priest vicars. The Guildhall, one of the finest buildings of its kind, dates from the finest times in Rougement Park are the rules of Rougement Castle, and parts of the rules of Rougement There is a University the rules walls still stand There is a University College Younded in 1865 and greatly enlarged College Exeter School, founded in 1629, is a large public school in modern buildings public school in modern buildings of a wide the except the second public school in modern business centre for a wide second property of the second public school in modern business centre for a wide second property of the second public second publi were incidents in the Protestant Reformation of the second of the second

Duke of Exeter in 1397, but he was executed in Exmouth Viscount English title held 1400. Thomas Regularly was duke from 1416 to Exmouth since 1816 by the family of Thomas Beaufort was duke from 1416 to 1125, and in 1443 John Holland, son of the former duke, was created duke In a few years, however, the title was again extinct

In 1525 Henry Courtenay was made Marquess of Exeter but he lost the title when he was executed in 1538 In 1605 Thomas Geeil, Lord Burghley, was made Earl of Exeter and in 1801 the 10th earl was made a marquess The title has since been held by the Cecils. The title has since been held by the Cecils. The cldest son of the marquess is called Lord Burghley and his ceat is Burghley House (q v) Lord Burghley (born 1905), son of the 5th marquess, is a famous athlete, proving himself at the Olympic Games and elsewhere, one of the treatest hundlers of the age In 1931 he was elected Conservative MP for Peterborough

## Exhaustion see FATIGUE.

Exhibition Eind of scholarship It is used at the Universities of Oxford and Cambridge for grants of money which are of less value than scholarships of the colleges award them and they are also of the colleges award them and they are also of the colleges award them and they are also of the colleges award them and they are also of the colleges award them and they are also of the colleges award them and they are also of the colleges award them and they are also of the colleges award them and they are also of the colleges award them and they are also of the colleges award them and they are also of the colleges award them and they are also of the colleges award them and they are also of the colleges award them and they are also of the colleges award them and they are also of the colleges award them are also of the colleges award the colleges award the colleges award the colleges award the colleges are also of the colleges award the colleges award the colleges award the colleges are also of the colleges award the Whitworth exhibitions for engineering students are notable examples

Exhibition Term for a show or display of any kind International and other exhibitions are now held for business purposes in the great commercial centres Some of these are general, but others are confined to a single industry, as the exhibition of agricultural machinery. The first great international exhibition was held in Hyde Park in Hattonic exhibition was near in five rate in 1851. The British Empire Exhibitions hold at Wemblev in 1924 and 1925 were notable. Some cities, e.g., Barcelona, have permanent buildings for exhibitions.

Exhumation Act of taking a dead place for nurposes of examining it In Great pince for purposes of examining it. In Great Britain it is illegal to disturb a grave, but an exhumation can be ordered by the Home Secretary if foul play is suspected, or for any other good reason. Bodies are also exhumed fometimes in order to be buried elsewhere, but this can only be done by consent of the authorities

Exile Banishment from country or home It may be self-imposed or by authoritative decree, and is distinct from the compulsory deportation of aliens, which is

banishment to their native land

EXMOOR Moorland tract of Somerset and Devonshire It lies in the north of the two counties and was once a forest It covers about 20,000 acres of wild and beautiful some and the source of the source o reovers about 20,000 acres of which and beautiful scenery Dunkery Beacon, 1700 ft., is the highest point Simonsbath is the centre of the moor, and on its borders are Minchead and Dulverton It is the only place in England where the red deer is wild A good deal of it belongs to the National Trust and it is the scene of R D Blackmore's Lorna Doone.

Exmouth Seaside resort and market town of Devonshire It is It is situated at the month of the River Exe, If m from Fxeter on the 8 Riv. It was once a scaport of some importance, and in the reign of I dward III. sent ships to take part in the Fit of Calais It has good sands and bathing, and beautiful scenery in the neighbourhood Industries include fishing and lace-making Pop (1931) 14 584

Pellew Edward Pellew was born at Dover, April 19, 1757, and entered the navy He rose to command a ship and then a fleet. In 1816 his fleet bembarded Algiers and compelled the ruler to release 2000 slaves. In 1796 Pellew was made a baronet, in 1814 a baron and in 1816 a viscount. He died Jan 23 1833

Exodus Book of Second book of the Old Testament Describing the release of the Hebrews from their Egyptian bondage, it continues the Genesis story and deals with the life of Israel in Egypt, the preparation of Moses, the ten plagues, the institution of the passover, and the flight across the Red Sea to Sinai (i xviii) The remainder records the prolonged sojourn in the Sinai wilderness, the promulgation of the Ten Commandments, and the Book of the Covenant (xix - xi)

Primitive custom requiring Exogamy Primitive custom requiring marriage to be effected outside the social group. Its impulse is probably economic rather than biological, although its eugenic value as a corrective to in-and-in breeding is undoubted. Where kinship groups are highly specialised, as in aboriginal Australia. the expramy pertains to totemic families, forbidding marriages between persons of the same totemic name Some Hindu castes recognise a special variant called hypergamy, under which women may not marry except into castes higher than their own The prohibition of marriage outside the social group is called endogamy

Exophagy Custom among certain can-the flesh of persons outside their own social group Some cat relatives who have died for food only persons of another kin The custom usually characterises those forms of man eating instigated by rovenge, eg, among the Maories in ancient times

Exorcism Expulsion by ritual methods of evil spirits from persons or places In all ares belief in intrusive demons or places in all ages belief in intrusive demons as causing bodily or mental ailments has suggested attempts to expel them by incantations fortified by material aids Present in Babylonia, the practice reached the Hellenistic world, was rife in New Testament times, and still lurks in Roman Catholic and other baptismal rites

Enlargement of a body in Expansion bulk or surface A rise in temperature causes expansion of volume in solids liquids and gases, and the expansion of unit, length, area or volume, per degree centigrade of increase in temperature, is known as the coefficient of expansion. A copper rod will increase in length by 0 0017 of its length for a rice from 0° to 100° C and the linear expansion of steel reliway lines and bridge girders, and all sensitive metal instruments must be allowed for or compensated

Expectation Something that one the future Actuaries and insurance officials use the phrase expectation of life for the number of years persons may be expected to live and on their information derived from experience, base their rates for annulties. His insurances and the like A rough method of calculating this is to reckon the expectation of Exmouth Gull is an opening, 65 m long, on the at two thirds of the difference between the present age and 80 Thus, if a man is 44, his

expectation of life is a further 24 years, or a total age of 68 24 is two thirds of 36, the difference between 44 and 80 To day, however, the expectation is a little more than this, owing to the increased attention paid to public health. The expectation of life is rather scheme of expect actions are goods imported in order to be sent to another part of the world. In 1926 the British Government started a scheme of expect action of life is rather different for women than for men

Expeditionary Force Name given to the divisions of the regular army kept ready for active service It was planned when the army was reorganised in 1907, and consisted of six divisions of infantry and one of cavalry with suitable artillery. Its total strength was about 130,000 men and 480 guns. In Aug., 1914 five divisions one being cavalry were landed in France, just after the declaration of two parts of the service of the war on Aug 4, and were in action at Mons on

Experimental Farm Farm or station where experimental work in agriculture is carried out under scientific supervision. The result of statistical and other investigations are published. The oldest of these farms is the one at Rothamsted in Hertfordshire under the Lawes Agricultural Trust, others are at Woburn in Bedfordshire and Pumpherston in Scotland. There are many experimental farms, under public control, in Canada.

under public control, in Canada.

Exploration lands in order to gain information about them The term is usually confined to the journeys of white men in the tunknown parts of continents outside Europe. The exploration of America began with the arival there of Columbus and continued until almost the whole of the two continents was mapped out. There are still however, immense areas in Braril and other parts of S. America which have been only slightly explored. In the 19th century Australia and then Africa were explored until something was known about practically the whole of their surfaces. At different times much exploration work has been done in Asia, but in the centre of that continent are tracts still unknown. More recently exploration has concentrated on first the Arctic and then the Antarctic regions. Both poles have been reached and much valuable knowledge has been gained. ledge has been gained

Explosive agent A large number and great variety of explosives are used in war and in mining quarrying and for similar purposes. These substances which may be in solld or liquid form, vary much in their disruptive power. The original explosive gunpowder has become superseded largely by such compounds of nitroglycerine and nitrocellulose as dynamite, gun cotton and cordite and by ammonium nitrate, pleric acid, and the nitro derivatives of the aromatic hydrocarbons such as trinitro toluene. toluene

Owing to obvious dangers in the manufacture storage and converance of explosives the industry is strictly regulated by the Explosives Act, 1875, and other legal restrictions. To see that the regulations about the use of explosives are observed the Home Office has a staff of inspectors

EXPORTS Term used for the goods sent out they are valued by the authorities at the custom houses, and every month particulars about them are published by the Board of Trade The difference between a country's exports and imports is called the balance of

scheme of export credits. The idea was to help trade by guaranteeing credit to reputable firms. The scheme was for five years and was under the Department of Overseas Trade. Its offices are at 9 Clements Lane, Lombard St. E. C. 4. In 1930 it was decided to extend the scheme for a further four years until 1935. In 1913 Great Britain's exports were valued at £634 800,000. In 1928 they totalled £843,780 000 but there was a decline in 1929, and this continued with only slight interruptions throughout 1930 1931 and 1932. It was however, partly accounted for by lower prices.

Extenuation Act of representing any thing as less serious that it really is In English law a jury can add a verdict of guilty a statement that there were extenuating circumstances to account for the crime in question and the judge will usual take this into account when passing sentence.

Extradition Delivering up, by o government to another, of fugitives from justice It is usually the subject of treaty and if there is no extradition treaty the fugitive is usually safe Great Britain has extradition treaties with many countries, but not with some of the republics of S America Political offenders are usually excepted from extradition treaties

excepted from extradition treaties

Extraterritoriality Term of intermediates. It denotes the immunity of certain persons, property or places, from the laws which obtain in the state in which they are In most countries, foreign sovereigns and titular heads of states even when incognito, are exempt from local jurisdiction Diplomatic residencies are immune, and foreign communities in some non-Christian countries Public vessels and the crew and passengers, are exempt when the ship is in the water of a friendly Power but this does not apply to private vessels in some foreign countries, as in China for instance, whole communities are regarded as extraterritorial for purposes of civil and oriminal jurisdiction being subject to national laws administered by their consuls

Extreme Unction

administered by their consuls

Extreme Unction Sacrament of persons apparently dying General since the 9th century, it is the fifth of the seven Roman Catholic sacraments, supplementing that of penance, and is administered by a priest after the Viaticum or Holy Communion

Exudation Discharge of a liquid from pores or from incisions Many economic plant products are exuded Some are due to the decomposition of cellulose like the true gums, others to the action of bacteria like the wattle gums or to incisions in the bark, like caout chouc and many resins

gums or to incisions in the bark, like caout chouc and many resins

Eyam village of Derbyshire It lies 5 m from Bakewell and 12 m S W of Sheffield The old church is dedicated to S Helen, and the churchyard contains an old Runic cross in Sept, 1665, the plaque was carried here by means of an infected parcel from London, and over three quarters of the population perished Pop 1120

471

EZRA

large altar piece, "The Adoration of the Lamb" in S Bavon's Church, a work which was completed by his brother, Jan (1385-1440) A fine example of Jan's painting is shown in lins "John Arnolfini and his Wife" in the National Gallery, London Hubert died at National Gallery, London Ghent, Sept 18, 1426

Eye Borough and market town of Suffolk Eye Borough and market town of Suffolk It is 94 m from London by the LNE Riv, and 10 from Ipswich, and is situated on the Dove a tributary of the Wavenev Brewing is carried on Pop (1931) 1733

Eye ball, about 1 in in diameter, set on cach side of the face, in a hollow orbit, the foremost protruding portion being covered by a transparent cornea, the rest of the envelope a transparent cornea, the rest of the envelope Behind the forming the opaque selerotic corner is the aqueous humour and a contractile curtain perforated by the pupil, called the iris, v hose colour varies in different persons from light blue to dark brown These confront a double-convex crystalline lens, behind which a transparent jelly called the vitreous humour is backed by the retina This receives images from the lens which the optic nerve transmits to the

A number of medical men called ophthalmic surgeons, specialise in dealing with affections of the eye In addition there are qualified opticians, who fit persons with glasses There re several hospitals for eve troubles in London The largest is the Moorfields Eye Hospital in

the City Road EYE, BLACK EYE, BLACK A severe blow on the eye cousing discolouration, should first be bathed in cold water. After a few hours, bothing with hot water will help to reduce the discolouration and swelling. If the surrounding flesh is bruised apply vaseline. A severely blackened eye may require medical attention.

EIE, DISCHARGE FROM A doctor should he consulted at once when any discharge is noticed from the eye. In the meantime the eye can be bathed with clean cotton wool dipped in horicle lotion (1 terspoonful of bone acid in a tumble of ultimated by the cool) Disclarge from the eves is also a symptom of measles

EYE, INTLAM IATION OF (Conjunctivitie) Bathe with cold freshly-made boracle lotion (' small terspoonful of borie powder to temail teaspoonin of boric powder to use tumblerful of boiling water, allowed to cool lrevent the sprad of infection to the sound eye in the use of a shade. If severe, consult a

cortor

EIE, SOMETHING IN Grit dust, or an insect may be removed with a clean handker-chief. If it is under the upper lid, lift the lid and pull it down over the lower one does not dislodge it, place a match or a knitting reedle on the upper lid and roll the lid back until the object can be seen

A splinter which has penetrated the eye, or any harmful substance such as a id must have ammediate medical attention, but relief may be obtained by bathing with a arm water and nutting a drop of olive or easter oil in the corner In the case of quick lime, vinegar should be dropped in before the oil to neutralise the lime Eyebright Annual herb (caphrasia fine order of the order order of the order of the

Eyemouth Burgh and Berwickshire scaport of It is 8 m. from Berwick and 343 m from London by the LNE Rly, and is situated on the little River Lve Its harbour is used by the North Sea fishing fleet Pop 2560

Eyra Wild cat of S America (Felis eyra)

Eyra It inhabits the region between S

Brazil and N Mexico It is about the size of
a small domestic cat, and is reddish vellow in colour, with an elongated, weasel-like body short legs, and a long tail It is fierce in its habits and prevs on poultry

Eyre Lake of S Australia It covers 4000 into it, is dry during much of the year Attention is being paid to the commercial possibilities of its sales and air market have been possibilities. of its salts, and air surveys have been made

Eyre Edward John English explorer Born Aug 5, 1815, at Hornsca, Yorkshire, the son of a clergyman, he went out to Australia in 1833 For some years he explored the unknown districts in the centre of the continent, and discovered the lake named after him In 1846 he was made Governor of New Zealand and, after a term in St Vincent, was appointed Governor of Jamaica in 1864 In 1865 he put down a rising of the negroes with great severity. This caused an outery in England, and Evre was recalled and prosecuted for having hanged a man on imperiect evidence He was acquitted and later was pensioned and repaid his expenses He died Nov 30, 1901

Eyres-Monsell Sir Bolton Meredith English politician Born in 1880, a son of Lieut Colonel Bolton Born in 1880, a son of Licut -Colone Botton Monsell, he entered the navv in 1894 In 1904 he married and took the additional name of Evres He left the navv in 1906 and in 1910 was elected M.P for S Worcester-shire now Evesham division, which he represented until 1935 In 1914 he returned to the navy and was mentioned in despatches. In the Coalition of 1919-22 he held a household appointment, and was Civil Lord and then Financial Secretary to the Admirulty In 1923-24 and 1924-29 he was Parliamentary Secretary to the Treasure From 1923 to 1931 he was chief whip of the Conservative Period Conservative tive Party He was made a privy councillor in 1923 and awarded the G B E in 1929 In 1931 he became First Lord of the Admiralty in the National Government, a post he retained after the General Election of 1935 In 1935 he was mised to the peerage as Viscount Monsell of Exceham.

Ezekiel Book of Prophetical book of the Old Testament. Lzekiel was a priest of Jerusalem, one of the prominent Jews exiled to Babylon by Nebuchadnezzar, 597 BC The book comprises the prophet's estatic experiences (i-iii), prophecies of judgment uttered before Jerusalem's fall (iv-xxiv), pro phecies against seven foreign nations (xxv-xxxii), discourses of the period following the news of the city s fall (xxxiii -xxxix), and visions of the ideal theocracy (x1-xxiii)

Book of Historical book of the Old EZIA Testament Ezra was a Jewish scribe living in captive cycle in Babylon under Artazerses Longimanus Recording Cyrus s decree for rebuilding the Jerusalem Temple, the of exiles under Zerubbabel and the course of the rebuilding (i-vi), then Exre's return with large white or like in colour stained with purple the lower lips mid lobe being vellow. book describes the return of the first compan

English political society

ingush political society it was founded in 1884 to forward Socialism by means of the steady

Socialism by means of the steady and deliberate methods that are and deliberate methods that are associated with the name of the Roman general, Fabius Maximus, Italian the enemy's strength Its rounders believed in the inevitability of grad unless. It has exercised an enormous influence on the new correlated and enormous influence on the new correlated and the steady of the new correlated and the steady of the steady of the new correlated and the steady of the stea founders believed in "the inevitability of grad unless". It has exercised an enormous influence on the progress of the Socialist move influence on the always attracted the more intellectual members of the party. Its head intellectual members of the party. Westminster, quarters are at 11 Dartmouth St., Westminster, London. S. W.

Appointed consul in 233 BC man general triumph for his viotory over the Ligurians, thou after Saguntum, 218 BC manned repair and he assisted Carthage to demand reparations after Saguntum, 218 BC manned repair the saguntum, 218 BC manned repair and the consul Flaminal st Trasimenus, the BC repair and dictatorship cure avoided engagements, while his tator, more impetuous colleagues were defeated at tator, in the same colleagues were defeated at the inflicted losses on Hannibal, and recap the inflicted losses on He died six tured Tarentum in 209 BC Fabius Maximus quintus Ro London, S W

Fabre Joan Henri French naturalist

Fabre He was born in poor circumstances

Dec 21, 1823 and was self educated to a large

extent During his early life when a teacher

extent as small school, he showed his bias towards

in a small school, he showed his bias towards

extended and particularly entomology tured Tare

in a small school, he showed his bins towards science and particularly entomology science and particularly entomology Later he became Professor of Philosophy at Ajaccio and at Avignon, His published researches into insect life His published works show remarkable powers of of 11, 1915 works show remarkable powers of of 11, 1915 and literary ability He died Oct 111, 1915 and literary ability He died Oct translated and literary ability among the most important. The following, which have been translated into English, are among the most important. Story Book of Science, The Life of the Spider The Mason Bees, The Life of the Spider The Mason Bees, The Life of the Spider Front of the head Extending from

The Mason Bees, The Life of the Sinder
Front of the head Extending from the top of the forehead to the chin the top of the top of the top of the top of the lower jaw. The temporal muscles and the lower jaw temples and mandibles and the muscles to the top of the t or expression are served by pairs of nerves, the former by the fifth, or trigominal, and the latter by the seventh, or facial nerves

for another there are corn and other factors which their principals are latter willke brokers actually factors, which their principals are regulated by the Factors' Act of 1889 In Their relations with their principals are gooland a factor is a man who manages and the for another work, including the making estate for another In engineering work, including the making of aeroplanes there is a factor is called This is reached by calculating the maximum strains which the parts may these maximum strains which the parts move these maximum strains which the parts move these maximum strains a factor is one of the two to bear and allowing for a margin over these in mathematics a factor is one of the two to bear and allowing for a margin over these in mathematics a factor is one of the two to bear and allowing for a margin over these in mathematics a factor is one of the two to bear and allowing for a margin over these in mathematics a factor is one of the two to bear and allowing for a margin over these in mathematics a factor is one of the two to bear and allowing for a margin over these in mathematics a factor is one of the two to bear and allowing for a margin over these in mathematics a factor is one of the two to bear and allowing for a margin over these in mathematics a factor is one of the two to bear and allowing for a margin over these in the decame and then at Trinty was educated at Clongowes and then at Clongowes and by the seventh, or facial nerves

Factor Word for an agent Legally a
for another there are corn and other factors
for another there are corn and other actually
factors, which they buy and sell
Usually, factors, which they principals are
handle the articles which they principals are
regulated by the Factors' Act of 1889 In
regulated by the Factors' who manages an
scotland a factor is a man who manages an
estate for another

ABIAN SOCIETY or more quantities which, multiplied together, and the word is also or more quantities which, manaphor cogonici, yield a given product, and the word is also used for anything having an influence on a particular result

particular result.

Building where goods are manu
Building where goods are manu
The older ones are,
The older ones are,
grimy and unsightly
erections but in the newer ones much attention
to paid to lighting and ventilation, whilst they erections but in the newer ones much attention is paid to lighting and ventilation, whilst they have frequently by no means unpleasing from the architectural point of view.

The factory system was introduced into

are irequently by no means unpleasing from
the architectural point of view.
The factory system was introduced into
The factory system was introduced into
England from Italy about 1700, but its develop
ment was due to the invention of machinery,
ment was due to the invention gradually the
the use of which superseded gradually the
system of spinning and weaving by hand in
system of spinning and weaving by hand in
holdern had to toll for long hours and no
law, hence employees, including women and
wages under appalling conditions judged by
wages under appalling conditions judged by
wages under appalling to be regulated by
however, factories began to be regulated law, the first Act in Great Britain being passed
in 1802 A number of others were passed in 1802 a number of others were passed in
1804 a number of others were passed in 1805 a number of others were passed in
1806 a number of others were passed in 1807 a number of others were passed in
1807 a number of others were passed in 1808 a number of others were passed in
1808 a number of others were passed in
1809 a number of others were passed in
1800 a number of others were passed in
1801 a number of others were passed in
1802 a number of others were passed in
1803 a number of others were passed in
1804 a number of others were passed in
1805 a number of others were passed in
1806 a number of others were passed in
1807 a number of others were passed in
1808 a number of others were passed in
1809 a number of others were passed in
1809 a number of others were passed in
1800 a number of others were passed in
1801 a number of others were passed in
1802 a number of others were passed in
1803 a number of others were passed in
1804 a number of others were passed in
1805 a number of others were passed in
1807 a number of others were passed in
1808 a number of others were passed in
1808 a number of others were passed in
1809 a number of others were passed in
1

Home Office officials

Faculty eg, to talk or sing It has also meanings of a special kind in educational and ecolesiastical usage The studies of a special kind in educational university are grouped into faculties, such as university are grouped into faculties, such as university are grouped into faculties, such as the Scottish faculty of advocates the Scottish faculty of advocates In ecclesiastical law a faculty is a permission to deanything, eg, to erect or remove a to do anything, eg, to erect or remove a themorial in a church in these cases and chancellor of the diocese hears the case and faculties whether of not to grant a faculty of decides whether of Canterbury has a court of The Arches Among other matters within Court of Arches Among other matters within the jurisdiction of the archbishop, this court grants special marriage licences

grants special marriage licences

Facroe Group of islands in the to the They are 200 m to the They are 200 m from Icciand north of the Shetlands and 250 m from Icciand and belong to Denmark There are 21 islands and belong to Denmark There are 21 islands and they cover 540 sq m on Strome is the are the largest Thorshavn on Strome is the are the largest are engaged in a calculated and fishing Sheep and cattle are ruised and fishing and potatoes are grown The Islands, hearly and potatoes are grown Danish in largest large. grants special marriage licences and fishing Sheep and cattle at and parter and potatoes are grown barley and potatoes are grown The Islands, having been Norwegian, became Danish In 1350 They elect one member to each house of the Danish Parliament and have a council for the Danish Pop (1930) 24,200

Irlsh dramatist Born May 10, Fagan and producer Born May 10, 1873 a son of Sir John Fagan the surgeon, he are the surgeon of Chongowes and then at Trinity rots a son of Sir John ragan the surrega, he was educated at Clorgowes and then at Trinty College Oxford He become an actor but

In the Fahrenheit scale the freezing point of water is fixed at 32° and the boiling point at 212°, the intervening space being divided into 180 equal degrees. In the centigrade scale freezing point is 0° and holling point 100° Conversion of these scales is effected as follows -

 $^{\circ}C = 5(^{\circ}F - 32)/9,$  $^{\circ}F = (^{\circ}C \times 9 - 5) + 32$ 

Faience Generic term for various kinds of glazed pottery painted with decorative designs. It is derived from Faenza in Italy where pottery with a fine vitreous surface was mide in the 15th century Examples of Italian faience are the Gubbio and Della Robbia ware, and of French workmanship Pallssy and Limoges ware, while Wedgwood ware is a modern type

Failsworth Urban district of Lanca-outer It is an outer suburb of Manchester, and is 191 m from London by the LMS Rly Cotton manufacture is the principal occupation Pop (1931) 15,724

Fainting An incipient attack of fainting can usually be prevented by suifiling smelling salts and sitting with the head between the knees for a few moments Thirty drops of sal volatile in water is a safe and ellective restorative. If loss of consciousness actually occurs, carry the patient where he may have fresh air and quiet, lay him down with the head lower than the feet. If attacks are frequent the sufferer should consult a doctor

Place where traders offer their wares Fair for sale In the Middle Ages buying and selling was chiefly done at fairs and amongst the hundreds of fairs held were the important ones in London (Bartholomew Fair), Winehester, Oxford and Stourbridge, near Cambridge Some fairs have disappeared, but in many places they are still held for the sale of horses and cattle Fairs were held, too, all over Europe and one of the most famous, the Leipzig Fair, is still held every year Some fairs were gradually turned into

occasions for pleasure and of these a few remain, such as Gorse Fair Nottingham, one on Blackheath and St Giles Fair at Oxford Here the attractions include roundabouts, coconut shies, games of all kinds for testing skill or luck and a variety of amusements Ireland was noted for its fairs and the most notorious, Donnybrook, was suppressed because of the disorder caused by it. Another kind of fair is the one at which farm servants are hired, but these are now almost extinct

In recent years the fair has been revived as a means of promoting trade means of promoting trade. Every year the British Industries Fair is held in two sections, one in London and the other in Birmingham at Castle Bromwich. In 1933 a "World's Fair."

ves held in Chicago

Fairbanks Douglas American motion pleture actor and producer He was born in Denver, Colorado, May 23, 1833, and clucated at the Colorado School of Mines and Harvard He acquired stage experience in Shakespearean drama and other plays and once played a small part in London His first scree i appearance was with D Griffith in The Lumb and he became so popular that later he had his own producing company His speciality is athleticism and his most famous pictures are The Marl of Jorro, Robin Hood and The Thief of Bagdad In 1920 he married Mary Pickford Divorced 1935

Fairfax Baron Thomas Fairfax, English soldier, born at Denton Yorkshire, Jan 17, 1612, a son of Ferdinando Fairiax, the 2nd baron He saw military service in the Netherlands and against the Scots and, with his father, joined the parliementary forces at the outbreak of the civil war The elder Fairfax was given the command of the troops in Yorkshire, but he was not very successful The vounger Fairfax, however, an abler soldier, was made commander-in-chief in 1644 and was partly responsible for the victory at Naseby and for crushing the royalists in Essex in 1648 He refused to attend as one of the judges appointed to try Charles I, and in 1650 he resigned his commission in the army and received a pension of £5000 a year Later he aided Monk in placing Charles II on the throne He was elected MP for Yorkshire in 1660 and died Nov 12, 1671

Fairfield Municipality of New South Wales It is 14 m west of Sydney, of which it is practically a suburb, and with which it is connected by railway Pop 7400

Fairford Village of Gloucestershire It is on the Coln, 25 m from Oxford, and is the terminus of a branch line of the GW Rly from that city It is famed for its 15th century church, with its stained glass from the Netherlands, telling the story of the creation and the work of Jesus Christ. Near are Fairford Park and Hatherop Castle There is trout fishing in the river Pop 1400

Fair Head Promontory on the coast of Antrim, Ireland Also called Bennore It is situated between Ballycastle and Marlough Bays, stands 636 feet above the sea, and is composed of huge greenstone columns

Fair Isle Island of Scotland It is one of the Shetland Islands, and is 16 m SSE of Mainland, and midway between the Shetland and Orkney groups There are two lighthouses. The inhabitants engage in sheep rearing and fishing, and in

making woollen garments, including the celebrated Fair Isle jerseys. Pop 140

Faith Healing faith in the Divine Power The cure is elicited by prayer, without recourse to medical advice or methods In Christendom the practice is largely based on James v 14 Christian Science seeks to cure by instilling into the patient the belief that pain is an illusion conquerable by faith The tradition of apostolic cures passed in the 3rd century into trust in the curative power of relics Medical opinion attributes faith cures at Lourdes and other pilgrim resorts to a psychological action

Fakenham Market town of Norfolk It stands on the Wensum, 24 m from King's Lynn, on the LNE and LMS IJvs Pop 3000

Fakir Religious devotce The term is used chiefly in India, where they number 1,000,000 They are partly orthodox ascetic mendicants of the dervish orders, partly irresponsible nomads and also Hindus some of the latter pertain to the yegi orders, who claim miraculous powers and practise severe mutilations and austerities. Others ere merely degraded and filthy vagabonds

Falaba Town of Sierra Leone, W Africa is a trading centre Pop 6000

Falaise Town of N France It stands on the River Ante, 20 m from Caen, and is chiefly famous as the birthplace of William the Conqueror The extensive ruins of the castle in which he was born overlook the town Falaise is an agricultural centre and has important horse and cattle fairs Tanning is an industry Ron 8000. is an industry Pop 6900

Falcon Sub family of birds of prey They have stout, hooked beaks, notched in the upper mandible, and long, sickle shaped claws Hesident British forms include the black-crowned peregrine, 15 in in length, which was formerly trained for hawking qv, a popular sport in England at one time, and lays red-spotted, yellowish eggs, the kestrel, 13 in long, which lays similarly tinted but smaller eggs, and the still smaller merilin, laying deep red eggs. The hobby is a summer visitor, the Norway gyricleon and Iceland and Greenland falcons are rarer.

The Order of the Falcon is an Icelandic order.

The Order of the Falcon is an Icelandic order It was founded in 1921 after Iceland had separated from Denmark, and appointments to it are made by a committee

Falernian Wine A sweet still wine made in the Cam panian district of Italy from Roman times

panian district of Italy from Roman times

Falkenhayn Erich von German sol
1801, he entered the army in 1880 and ten
years later joined the general staff in 1900
he saw service in China and rose to be chief
of the staff of the 4th army in 1913 he was
appointed Minister of War and when the World
War began he held that position in Dec, 1914,
he succeeded Moltke as chief of the general
staff and directed operations until he was
superseded in Aug 1916 He then tool, com
mand of the army that invaded Rumania and
was afterwards in charge of the Turkish Armies
He died April 8, 1922

Falkirk Burgh and market town of
Chasgow, on the LMS and LNE Rlys The
chief industries are coal mines and iron works
but there are other manufactures. The town

chief industries are coal mines and fron works but there are other manufactures. The town is also important for its cattle fairs. Its port is Grangemouth on the Firth of Forth, 3 m eway. The burgh includes Granamstown, Laurieston and Camelon. Pop. (1931) 36,565. Two notable battles have been fought at lakirk. In one on July 22, 1298, Edward I of England defeated the Scots under Sir Villiam Wallace. The day was decided by the Linglish archers. The second battle was fought Jan 17, 1746. The Highlanders, under Prince Charles Edward, were returning from Derby, when they met a small English force, which was soon routed.

It stands that be would be "out of it ere night. 'Riding forward he met his death there, Sept. 20, 1643 Sir J A R Marriot has written The Lafe neive ruins veriook the centre and a Times of Lucius Cary, Viscount Fall.land tested collaterally to the great Lord Falkland Falkland Islands A group of prey They

South Atlantic, 300 m cast of the Straits of Magellan, discovered by John Davis in 1592 They were taken by the French in 1764, ceded to Spain in 1767, and finally yielded to Great Britain in 1771

They now form a British Crown Colony under a governor assisted by executive and legislative councils

Only two—East and West Falkland—are important, covering, with the neighbouring small islands, 4618 sq m South Georgia (about 1000 sq m), the S Shetlands, the S Orkneys, the Sandwich Islands and Grahams Land are dependencies extending the territory to the South Pole Stanley, on East Falkland, is the capital and only town and has a good harbour Sheep farming is carried on and the islands are a centre of the whaling industry Pop (1931) 2,392

BATTLE OF THE FALKLAND ISLANDS On Dec. 8 1914 a naval battle was fought near the Falkland Islands, between the British and Only two-East and West Falkland-are

On Dec. 8 1914 a naval battle was fought near the Falkland Islands, between the British and the Germans After the destruction of the British Fleet at Coronel in Oct. 1914 two battle cruisers were sent to find the victorious Germans. With some old armoured cruisers they reached Port William in the Falklands and were coaling there when the German squadron was sighted It consisted of the two armoured cruisers called Scharnhorst and Gneisenau and three light cruisers Knowing he was no match for the British battle cruisers, which he had not expected to meet in these waters, the German expected to meet in these waters, the Gorman Admiral, Count von Spee, turned away The British ships, under Vice Admiral Sir D Sturgee, put to sea and the fight began Both the German armoured cruisers were sunk by The light cruisers, Leipzig and Nuremberg, were sunk by the British cruisers, but the Dresden escaped The Germans lost 2100 mon, the British, 7 killed and 12 wounded

Fallacy Any mistaken statement used in argument Specifically it is a piece of false reasoning, or a mistaken belief or opinion, founded on correct reasoning from the propriets of the propriet of the propriets o or opinion, founded on correct reasoning from intrue premises, or on incorrect reasoning from true ones Systems of logic include the classification of fallacies under a number of headings mainly following those of Aristotic, among the more common being irrelevancy or ignoratio elenchi, question begging, or petitio principii and an unjustified conclusion, or

was soon routed Falkland Burgh of Fifeshire It is 21 I in 1876 he was elected to the Chamber on the site of the castle in which earlier Lings lived After 1603 it tell into decay, but it was restored by the Marquess of Bute about 1890 Pop (1931) 791

Falkland Viscount Scottish title borne Falkland Viscount Scottish title borne a Devon man, who was Lord Deputy of Ireland under James I The most famous holder was his son, Lucius, the 2nd viscount, who succeeded in 1633 In 1640 he entered parliament and in 1642 became Scoretary of State He fought for Charles when war began, but his dislike of the strife is shown by the words attributed to him before the Battle of Newbury.

to allow the soil to recover from the exhaustion i due to previous crops With the adoption of rotation of crops and scientific fertilising, fallowing became less necessary, because the different requirements of the crops in the rotation ensure that the supplies of the various

plant foods in the soil are not exhausted

The Fallow deer is a small European species, commonly found in English deer parks

Falmouth Borough, scaport and market town of Cornwall It is on the GW Rly, 12 m from Truro and 291 from London The harbour is formed by the River Fal, which enters the sca here The port has dry docks and can hold all but the largest It is also a fishing and yachting centre The old town lies along the river, whilst on the sea front is the newer district called Gyllvngyase, which has good sands and is a popular resort. In the harbour are the Cutty Sari and the two old warships, Implacable and Foudthe two old warships, Implacable and Four-royant Near the town is Pendennis Castle, built by Henry VIII, and around is much beautiful scenery Pop (1931) 13,492 The title of Viscount Falmouth has been borne since 1720 by the old Cornish family of Boscawen From 1821 to 1852 the viscounts were also earls of Falmouth. The family scat

is Tregothnan, near Truro

False Acacia Tree of the leguminous order Robinia pseudaracia, also called bastard acuem of footh America and tree. It is a native of North America and footh America and footh It. It also called bastard acacia or locust attains a height sometimes of 60 or 80 ft. It is widely cultivated in Britain and Europe, its long sprays of fragrant white or rose-purple flowers closely resembling those of the yellow laburnum. It is usually called acacia erroneously, as the true acacia is a mimosa.

False Pretences Phrase used in English law It is an offence to obtain or attempt to obtain, goods or property on false pretences, which is "a false representation by words, writing or conduct of an existing fact." To convict a person of this offence, it must be shown that he acted with intent to defraud and that he knows that the statement he made was false

Falsetto Forced or false voice with a runge above the natural It is used chiefly of men's voices, when they cul tirate high notes in order to sing alto parts although their ordinary range is that of a baritone or a bass

Famagusta Seaport town of Cyprus of Salanus, it was built in 274 B c by Ptolemy Augustus and originally named Arsinoe It is connected by a light railway with Nicosia, the capital Of its mediacyal glories only the fortifications, the castle and the fine Gothic cathedral now a mosque remain Two acts of Shal espeare's Officillo arc Inid here Pop 8979

Family Unit of society consisting of It is used also for a larger unit, entine brothers, eisters, and their offspring, and we speck of the royal family and the Cavendish family meaning a group of relatives

Many scholars have enquired into the early history of the family and although they disagree on many points they agree that it goes back to the beginnings of human society it evolved from a society in which unions were promis-cuous and paternal parentage uncertain, and became one of the bases on which our modern civilisation is built

The family was mainly patriarchal and under the rule of the father, and in many countries it included his children by various wives and concubines In some societies it was matriarchal, the mother being the recognised head, but this state of affairs has long passed away, except perhaps among one or two primitive peoples. In the western world, protected by the power of the Christian Church, it took the form which it now retains

Family is used by zoologists and botanists for a group of organisms that in certain vital principles resemble each other. A family in

this sense consists of several genera

Family is also used for a group of languages,
the Aran or Indo-European family
FAMILY ENDOWMENT The steady fall in

the birth-rate has given prominence to the principle of regulating salaries and wages to some extent by the number of a man's family For long payments for children have been made to ministers in the Weslevan Methodist church and the scheme has been introduced into one or two educational establishments. In New South Wales there is a state scheme of this kind Employers pay a tax on the amount paid by them in wages, and this goes in allowances to those workers who have dependent children This family endowment principle was introduced in 1927 There is in London a society for introducing something of the kind into Great Britain

Famine General scarcity, of Conquently to starvation and frequently General scarcity of food leading death From earliest times famines have been prevalent and millions have died during their course They are caused by the failure of the crops, which in its turn may have been due to drought, war, or pestilence They have been most terrible in the densely populated countries of the east where the population increases very rapidly and any serious decrease in production quickly brings about a famine Famines are mentioned in the Bible During

the lst century whole provinces in India were depopulated There was a terrible European famine in 1102 and a potato famine in Irelana In 1846-47 The Thirty Years' War, and, to some extent, the World War, led to famines The severity and frequency of famines has jn 1846-47

been greatly mitigated by the greater produc tivity of the soil, brought about by irrigation and modern methods of farming, improved means of transport, methods of preserving food and attacks on the diseases that destroy food crops l'amines are practically unknown in the more civilised countries, but there are still, from time to time, terrible famines in parts of India, China and Russia, where the population is much closer to the means of subsistence than it is in Europe and North America

Fan Implement for agitating the air to obtain a cooling draught on the face or person Employed in hot countries from remote antiquity, fans composed of palm leaves or feathers mounted on long handles were royal attributes in West Asia and India Their use in Imperial Rome survives in papal

processions

Folding fans, made of paper on bamboo framework, originated in Japan, and this form has become generally popular in Western Europe, especially in Spain At one time painting on fans was a very popular art. In the l'ast a form of fan known as a punkah is employed It is composed of an oblong sheet hung from the ceiling and oscillated by man or other power

A machine consisting of a number of Fan A machine consisting of a number of blades set round an axis at an angle to their plane, capable of being rotated, on the blade rate of speed, enclosed in a case uxle, at a high rate of speed, enclosed in a case and used for moving of ant of or into closed. ixle, at a high rate of speed, enclosed in a case and used for moving air out of or into closed and used for moving air out of or into closed. It finds practical application in cooling and ventilating, drying the transport of light and ventilating, drying in lint, grain, etc. and intervals, such as cotton, lint, grain, etc. and for providing a supply of air under pressure for providing a supply of air under pressure. The common electric fan is to create a current is not enclosed, as its object is to create a current.

is not enclosed, as its object is to create a current of air in a room

TAN VAULT The idea of the open fan was

copled in Gothic architecture at a late period in its development. The stone ribs used in in its development. The stone ribs used in raulting are carved to open out like a fan raulting are carved to open of this fen tracery ribbons is a beautiful example of this fen tracery There is a beautiful example of this fan tracery in Henry VII's chapel, Westminster Abbey in its development

Term applied to the poison teeth of certain snakes, particularly the viper and rattlesnake. The poison fags are usually larger than the ordinary teeth and are groved or traversed by a duct from the poison fand When a snake strikes its proy, the land when a snake strikes its proy, the land is pressed out of the gland into the duct by muscular contraction and thence venom is pressed out or the giand into the duct by muscular contraction and thence conducted into the wound made by the fang Fannch District and loch of Scotland
The district is in the County of Ross and Cromarty and consists of a group of mountains and a deer forest Near these is Looh Fannich, a lake about 61 m long A short stream, called Fannich Water, carries off its waters

off its waters

Fanning

Island of the Pacific Ocean

of coral formation, it covers

for an and is a British possession, Islands

attached to the Gilbert and Ellice Believe

Colony It is a station for the cable between

Canada and Australia. It owes its name to an

American soldier, Edmund Fanning (1737 1818)

who discovered it in 1798

Musical composition free from

who discovered it in 1798

Fantasia Musical composition free from Musical composition and often of the formal restrictions and often of the formal restrictions was a descriptive or instruments variously composition for instruments are composed by the without voices As composed by the contemporaries the sonata was the immediate precursor of the sonata on the Bach, Mozart and Beethoven carried on the tradition

Mas the mark and Beetnoven
Bach, Mozart and Beetnoven
Bach, Mozart and Beetnoven
Bach, Mozart and Beetnoven
Fao Shatt el Arab, about 3 m from the
Fao Shatt el Arab, about 3 m from the
Persian Gulf It was selzed by the British in
Persian Gulf It was selzed by the British in
Persian Gulf It was selzed, was used as a
Nov, 1914 and, when fortified, was used as a
Nov, 1914 be operations in Mesopotamia
Nov the operations in Mesopotamia Nov, 1914 and, when fortinged, was base for the operations in Mesopotamia

Farad electrical unit of capacity one coulomb of electricity will charge to the coulomb of electricity as the forad is too large pressure of one volt. As the forad is too large to pressure of one volt. pressure of one volt. As the farad is too large for practical purposes, the micro farad, equal to one millionth of a farad, is generally used

to one millionth of a farnd, is generally used

Michael English chemist and He was born in He was parentage
I.ondon, Sept 22, 1791 of humble parentage
I.ondon, Sept 23, 1791 of humble parentage
I.ondon, Sept 24, 1791 of humble parentage
I.ondon, were very popular and he wrote a great deal He belonged to the Glassites and was a devout He belonged to the Glassites and was a devout He died Aug 25, 1813 laid the Christian He died Aug 26, 1813 laid the Faraday's researches in electrolysis laid the Faraday's researches in electrolysis and were an Luglish journalist.

followed by many important discoveries in electro dynamics (including the laws which are the basis of modern electrical newer) and in clectro dynamics (including the laws which are the basis of modern electrical power), and in various departments of pure and applied chemistry, particularly in the liquefaction of chemistry, the manufacture of glass, the metallic gases, the manufacture of glass, the metallic glass and the vaporisation of mercury in logs, and in 1931 the centenary of license in 1993, and in 1931 the centenary of some of his greatest discoveries was colebrated.

FARMAN

Farcy It is of the same nature as glanders of a contagious nature and can be contracted by human belows as well as other animals by human belows as well as other animals. by human beings as well as other animals

Fareham Seaport, urban district and market town of Hampshire It stands on an opening of Portsmouth Harbour, and from Portsmouth and is a function on the It stands on an opening of Portsmouth Harbour, from Portsmouth, and is a junction on the m from Portsmouth, and is a junction on the most of the most

Farewell Cape of Greenland the country's most southerly point.

Situated on an island, it is portlous to sailors on account of currents and drift ice

Term applied to a number of Farina starchy substances, such as starchy substances, such as potato starch in this country, maize starch in the U.S.A and cassans starch in S. America, starch is the commonest storage material of the ordinary plant hence many scods, stoms and roots are farinaceous and roots are farinaceous.

potato starch in cassays starce material the USA and cassays starce is the commonest storage seeds, stoms starch is the commonest storage seeds, stoms the ordinary plant hence many seeds, stoms the ordinary plant hence many seeds, stoms and roots are farinaceous and roots are farinaceous and roots are farinaceous and roots are farinaceous and seeds, its 17 m from Oxford, on the faringdon is an agricultural and faringdon. It is 17 m from Oxford, on the faringdon is an agricultural and in the faringdon is an agricultural and in 1916 by the family of Henderson Alex 1916 by the family of Henderson was born in ander Henderson, the 1st baron was born in since 1916 by the family of Henderson was took in 1916 by the family of Henderson was took in 1916 by the family of Henderson was stook in 1916 by the family of Henderson was took in 1916 by the faringdon in 1916 a baron his baronet and in 1916 a baron and rented his is the original meaning his worked by many men own the farms which they work as a beeter soil of the word, and will sorve as a beeter soil of the word, will sorve as a beeter soil of the word and will sorve as a beeter soil of the word and will sorve as a beeter soil of the word and will sorve as a beeter soil of the farms may be chiefly devoted to the coldary farm requires much better soil of the farms may be chiefly devoted to while farms of the word, and where were farmed on the farm of the word and where were farmed on the farm of a

EARMING AS A CAREER Sec AGRICULTURE FARMING AS A CARLET SCENARIOUS OF A TYPE of neroplane Henry built by the brothers sons of They were the sons of Inglish journalist.

France in 1874, became a champion racing cyclist and later a racing motorist. Then he started works for the manufacture of cars and bicycles Turning to aeronautics, he designed and built an aeroplane which made its first trial in 1907 A year later he started a school for aviation near Versailles His brother, Maurice, opened an aeroplane factory, and in 1912 they combined to erect works at Billancourt During the Great War they supplied aeroplanes to the French and other armies

Farmer John English musician He was born Aug 6, 1836, at Nottingham, studied music abroad and became Music Master at Harrow in 1864 In 1885 he was appointed organist at Balliol College, Oxford He died July 17, 1901 harmer composed the music for many school songs, his most famous being Forty Years On,

and he also edited music for public school use

Farnborough Hampshire in from London, on the S. Rly district It is JJ On Farnborough Common is the aircraft factory of the Royal Air Force The Empress Eugenie lived on Farnborough Hill, where she built a Roman Catholic Church, containing a built a Roman Catholic Churen, containing a mausoleum in which lie the remains of herself, her husband, Napoleon III, and her son The Benedictines have an abbey here The town has a militury camp, being in the Aldershot area Pop (1931) 16,359

Another Farnborough is a village in Kent

It is 4 m from Bromley and is a centre for

motor bus services

Farnborough Baron English historian Thomas Erskine May was born Fob 8, 1815, and educated at Bedford In 1831 he secured a position in the library of the House of Commons and in 1838 became a barrister He passed his life 1838 became a barrister He passed his life in the service of parliament, and, having been clerk assistant since 1856, he was chosen clerk of the House of Commons in 1871, a position he held until just before his death, May 17, 1886 In 1886 he was made a peer, but the title became extinct Erskine May, but writing a hoal on the Printeges Proceedings but the title became extinct Ersine May, by writing a book on the Privileges, Proceedings and Usages of Parliament, made himself the chief authority on this subject Almost equally valuable is the Constitutional History of Ingland, 1760 1860

Farne Group of Islands off the coast of Northumberland The largest, Island Paras is closed in the principal content of the Coast of Islands of the Coast of Islands of the coast of Islands of the coast of the Islands of the Coast of Islands of Islan

Inner l'arne, is about 11 m from the mainland, the other 20 or so being more to seaward. They are mainly uninhabited islets. On Longstone, associated with Grace Darling, is a lighthouse

Farnese Famous Italian family In Alexander Farnese a cardinal Ho belonged to a family who were lords of Farneto in Tuscany and his sister was the mistress of the pope In 1734 Alexander became pope as Paul III He had a family and to one of his sons he gave the Duchy of Parma, which remained in the possession of his descendants until the family became extinct in 1731. One duke of Parma, Alexander, was the Spanish soldier who led the army that was intended to invade England

Farnham Market town and urban district of Surrey It stands on the Wey, 38 m from London, on the S Rlv The industries include brewing, and hops are grown in the neighbourhood. Near the town are Waverley Abbey and Moor Park Pop (1931) 18,294

Farnham Gastle was long the residence of the Bishops of Winchester A fine building, mainly of the 17th century, it stands on a noble park, part of which now belongs to the town The castle is used for church purposes, as the bishop ceased to live there in 1926

Farnol John Jeffery English author He was born Feb 10 1878, and educated privately In 1902 he went to America, where he contributed stories to magazines and for two years painted scenery for the Astor Theatre in New York His first novel, Lady Caprice, published in America, appeared afterwards in Lugland as The Chronicles of the Trip Returning to England in 1910, the publication of The Broad Highway made him immediately popular with the readers of romantic adventure. This was followed by romantic adventure This was followed by others, notably, The Amateur Gentleman, The Honourable Mr Tawnish, which was dramatised, Heliane the Smith, Black Bartlemy's Treasure, Martin Conisby's Fengeance, Peregrine's Progress, Sir John Dering, Another Day Over the Hills and The Jade of Desting He also published a volume, Il ar Iripressions, in 1918

Farnworth Market town and ur district of Lancashire is 3 m from Bolton on the LMS Rly main industries are cotton spinning, engineering and coal mining Pop (1931) 28,711

Faro Card game Reputedly of Italian New York or State of Colonies A picture of Pharaoli formerly appearing on one of the eards occasioned its name It nowadays requires expensive apparatus, con prising a layout and a faro-box, with spring releasing the cards in prirs, giving 25 turns, the top card, soda, and the lowest, in hoc, not counting Bets are made that any specific card vill win or lose

Farrar Frederic William English divine and author Born in Bombay, Aug 7, 1831, he was educated at King William's Aug 7, 1831, he was educated at king William's College, Isle of Man, King s College, London, and Frinity College, Cambridge He became a schoolmaster and was ordained, serving at Mariborough and for 15 years at Harrow In 1871 he was chosen head of Mariborough and from 1876 to 1895 he was canon of Westminster and rector of S Margaret's, He was dean of Canterbury from 1895 until his death, March 2) 1903

22, 1903
Farrar wrote a great deal and his religious views, liberal for his day had a considerable influence His Lafe of Christ (1874) was immensely popular and his Lafe of S. Paul had a Dichola for boys especially great sale. His books for boys especially Lric, or Little by Little, were also great popular successes, although their sentiment makes no appeal to a later generation.

Alexander, was the Spanish soldier who led the army that was intended to invade England in 1583 Lilizabeth Farnese became the wife of Philip V, King of Spain Paul III was responsible for the Farnese Prlace, one of the finest buildings in Rome It was completed by Michelangelo and is in the Renaissance style In 1874 it was bought by France to serve as an embassy. The Farnese Bull, one of its treasures, is now in Apples.

was a great success as the impersonator of 199 Buckingham Palace Road, London, SW1 fine ladies in the works of Sheridan and and the movement has adherents in other grove She married the 12th Earl of Derby countries 797 and she died April 23, 1829 Fashoda Town of the Angle Exercisan

arrier Man whose business it is to man who attends to their ailments, but he non who attends to their atments, but he now known as a veterinary surgeon. The riers' Company is one of the London livery npanies. Its offices are at 140 Leadenhall, London, E.C. 4, and it takes a special erest in veterinary matters.

arthing Smallest British coin Equal ling one fourth of a penny it legal tender up to four at a time It was used in silver from the time of Edward I that of Mary I, and in copper under James and later Under Charles II the farthings set with a circle of copper were struck opper half farthings were circulated between \$42.69 and in 1860 they became bronze, for oz weekly the struck of the str a weight

Farthingale Hooped potticoat or hooped framework of thalebone worn beneath the petitioat to extend to 9 Spanish origin, the fashion appeared in England during the reign of Queen Elizabeth It developed gradually into a circular contraption of immense proportions, with a flat surface radiating from the waist. The crino line of a later period was a modified form

Fascism Political and social movement in Italy It began about 1919 amongst those who were dissatisfied with the amongst those who were dissatisfied with the conduct of affairs at a time when the country was suffering from the effects of the Great War They called themselves fascists from the Latin word fasces, bundles Mainly composed of men who had served in the War they organised themselves on military lines and the movement grew rapidly Fascism was at first republican and socialistic in its aims and its members were the black shirt as their distinctive garb Benito Mussolini soon stood out as the guiding spirit of the movement.

In 1920 Fascist candidates stood for the Chamber of Deputies and local councils Some were elected, but the activities of the organisation were more articulate in other directions. Abandoning gradually their early creed, they stood out as the opponents of communism, then strong in Italy, and in several towns there were riots. In 1931, 38 Fascists were elected to the Chamber and at a congress.

were elected to the Chamber and at a congress

a national programme was adopted In Oct 1922, there took place the march on Rome, a great event in the history of Fascism The city was entered by 200,000 armed fascists

The city was entered by 200 000 armed fascists the government was overthrown and a new one under Mussolini set up Otherwise civil war would have broken out Since then Fascism has been supreme in Italy and Mussolini far more a dictator than a premier Fascism has consolidated its power by altering its constitution more than once in 1921 and egain in 1928, by changing the electoral is 7, Mussolini secured a majority in the Chamber and this he has since retained Only those are clirible for election to the Chamber. Chamber and this he has since retained Only those are cligible for election to the Chamber who are on a roll prepared by the Grand Council of the Fascists, and there is a similar grip upon the minor governing bodies In much the same way industry is controlled by Fascist organisation Although antagonistic to all ideas of constitutional government, Fascism has undoubtedly done a great deal to make their properties. make Italy prosperous
There is a society of British Fascists at Fates In classical mythology, three goddesses who presided over human

Countries

Fashoda Town of the Angle Egyptian
Sudan, formerly known as
Fashoda Kodek It stands on the White Nile,
468 m to the south of Khartoum and is a
caravan trading and official centre In Sept.,
1898 it was occupied by a small French force
under Marchand, although within the British
sphere of influence Marchand was asked to
withdraw, but refused and the position was for
a short time serious However, in Nov the
French Government ordered him to abandon
the post and signed an agreement, March 21,
1899, which provided a definite boundary line
between the British and French spheres
Fast Ruined castle of Berwickshire It

between the British and French spheres

Fast Ruined castle of Berwickshire It is situated on a promontory of the cliffs near St. Abb's head, and was once a fortress, accessible only by a drawbridge over a chasm which separated it from the mainland Garrisoned by English troops in 1410, it was retaken by one of the Dunbars At the time of the Gowrie conspiracy it was intended to imprison James VI of Scotland in the fortress which was at that time in the possession of Logan of Restairig, one of the conspirators. In Scott's Bride of Lammermoor it figures as Wolf's Crag, the residence of the Master of Ravenswood of Ravenswood

of Ravenswood

Fasting Abstention from food It may
Mosaic law imposed an annual fast on the day
of atonement and the Jows still observe this
and other days as fasts The Anglican Church
prescribes days of fasting or abstinence during
the 40 days of Lent, Ember days, Rogation
days, all Fridays except Christmas day, and
the vigils of various festivals, leaving to the
individual conscience the manner of observing
them The Roman Catholic Church makes
fasting compulsory Its most usual form is to
eat no meat on Fridays, but in religious houses,
especially during Lent, it takes more severe
forms Roman Catholics and high churchmen
in the Anglican Church believe that the Holy
Communion must only be taken fasting

Fastnet Rocky islet off the coast of
site of a lighthouse

Fasinet Co Cork, Irish Free State, the site of a lighthouse

Fat Ofliv substance of animal or plant origin which is solid or semi solid at ordinary temperatures, becoming an olly liquid with increase of temperature. In animals fat acts as a reserve from which the body can maintain heat. In plants it is stored in many seeds and fruit Most fats are valuable either as food or for industrial purposes.

Fatalism Dectrine that all things are preordained by an inexorable necessity. First taught by Epicurus and the Stoies in Greece, it appears in Christian theology in association with views concerning predestination and election. Mohammedanism calls for man's calm acceptance of the decrees.

calls for man's calm acceptance of the decrees of Kismet an absolute power transcending all physical law

Fata Morgana Kind of mirage Specifically it is that seen across calm water in the Messina Strait which separates Sicily and Italy Inverted images as of ships appear in the sky above actual objects Norman settlers associated it with the mediacval fairy Morgana, who, according to mediaeval romances, was King Arthur's sister

daughters of Zous and Themis, or of Erebus and Night, the Roman name was Parcao Clotho the youngest, held the distaff and span the thread of life, Lachesis determined its quality and length, Atropos, with the shears, severed it at the inevitable moment Even Zeus was unwilling to interfere with their fateful decrees

Father A male parent In English law a father is responsible for the maintenance of his offspring until they can maintain themselves By analogy the word is used for God, especially as the first person of the Trinity and Christianity teaches the doctrine of the fatherhood of God, that He is the lover and protector of His children, to whom He has revealed Himself in Jesus Christ

Father is used for priests and members of monastic orders in the Roman Catholic and to some extent in the Anglican Church It is also used for the senators of Rome, for any venerable person, and for the first or oldest person in a community, as the father of the chapel in the printing industry and the father of the

House of Commons

The Fathers of the Church are the writers who lived in the early ages of Christianity, and whose writings are regarded as only of less importance than those in the Bible include S Jerome and S Ambrose

Fathom Linear measure used only for nautical purposes, especially sounding Originally the distance a man could stretch with his arms spread, it is now 6 ft

Fatigue Condition resulting from pro-longed muscular or mental activity As this condition affects the nervous system fatigue is characterised by inability to work, pay attention or think, and by a failing memory. The study of industrial fatigne, which results in diminished capacity for work due to excessive labour, monotony and other factors, has become one of great importance. A good deal of research work has been done on this subject by the Home Office and the Institute of Industrial Psychology

Fatigue in metal, responsible in many instances for fracture of parts of machines, is the result of local deformation of the metal when

subjected to prolonged vibratory stress

The word is also used for military duties, especially those connected with routine work

of a camp or barracks

Fatima Daughter of Mahomet. The child of his first wife Kadijah, she was horn about 606 and was called by the prophet one of the world's four perfect women She married Ali, and bore three sons Al-Hasan, Al Heseln and Al-Hubsin From the first two sons the Fatimite caliphs were descended. She died In 632

Fatimites (or Fatimides) Arabian dynasty, claiming direct descent from Fatima, daughter of the prophet Mahomet and her husband. The dynasty, founded by Obandallah in 809, ruled in Egypt for nearly 200 years. At first their claim was unquestioned but as they became more powerful, the Caliphs of Bagdad were at great p ins to discredit it. The last caliph of the dynasty died in 1171 deposity died in 1171

Fault Geological term for the fracture of Resulting in the formation of fissures, faults

destiny The Greeks knew them as the Moirni, upon which the beds are depressed, the downthrow side In a normal fault the beds are displaced downwards, in a reversed fault they are shifted upwards

In Roman mythology, a rural delty, patron of flocks, herds and He is sometimes identified with Faun agriculture Pan, whose attributes he shares Ancient fancy peopled the woods with fauns or demi-gods resembling men except that they were goat-footed and tailed and had sprouting horns

Term used collectively for all the Fauna Term used collectively for all the animal life of a given geographical region or geological period. In a similar way flora designates the plant life The preservation of the fauna of an area is now beginning to interest responsible authorities such as the Society for the Preservation of the Fauna of the British Empire

Faure François Félix French statesman Born in Pans, Jan 30, 1841, he became a merchant and shipowner at Havre As a volunteer officer he fought throughout the Franco Prussian War In 1881 he became a member of the National Assembly, and in 1882 Under Secretary for the Colonies resignation of Casimir Perior in 1895, Faure was elected President The chief events during his administration were the Franco Russian Alliance, the Fashoda affair, and, in 1898, the re-trial of Dreyfus He died Feb 16, 1899

Faust Historical figure in 16th century Germany, famous in legend and poetry Dr Johann Faust, a profligate and charlatan, necromancer passed into legends which attributed to him a pact with the devil A collection of tales about him issued in 1587 became widely known Mar-lowe's tragedy of Dr Faustus was published in 1604 Goothe developed the theme of man's eternal struggle with temptation in his great drama called Faust, which was begun in 1773 and completed in 1832 Gounod's opera on the subject appeared in 1859, and on Goethe's version W G Wills based the tragedy produced by Sir H Irving in 1885

Faustina Name of two Roman empresses Both were charged by contemporary historians with gross profilracy The elder (c 104 141) married Antoninus Pius, a temple in Rome to her memory, and a colossal bust in the Vetican, still remain Her daughter, like her mother named Anna Galeria, married Marcus Aurelius Both emperors founded institutions, called Faustinian, for educating orphan girls, in memory of their ives.

Faversham Borough, river port and market town of Kent It is 9 m from Canterbury and 52 from London, on the S Rly Faversham Creek is an opening of the Swale and on it there is a little shipping There is also an agricultural trade and brewing place. Faversham had an abbey and in the lith century or later was one of the Cinque Ports Pop (1931) 10,091.

Favre Jules Claude Gabriel French statesman Born at Lyons Mar 21,

Favre Jules Claude Gabriel French statesman Born at Lyons Mar 21, 1809, he studied law in Paris and became a keen republican After the Revolution of 1848 he was elected deputy for Lyons, and bitterly and violently opposed the election of Louis Napoleon to the presidency From 1863-70 he led the republican opposition. In 1870 Favro was Foreign Minister and Vice-President After his mismanagement of the armostice. June 28, 1871, and later of the may be small or may extend to a considerable 1870 Favro was Foreign Minister and Vice-depth and for a greet distance The plane of Pre-ident After his mismanagement of the fracture is termed the fault plane, and the side

FELIX

Treaty of Frankfort, Favre resigned Electeto the senate in 1876, he died Jan 20, 1880 Elected

Fawcett Henry British politician and commist Born at Salisbury.

Aug 25, 1833, he was educated at London and Cambridge and in 1858 was totally deprived of his sight through a shooting accident. Nevertheless he became Professor of Political Economy at Cambridge in 1863 he was elected Liberal M P for Brighton in 1865, and in 1875 for Hackney In 1880 he became Prostmaster General under Gladstone He died Nov 6, 1884 His wife, Millicont Garrett Fawcett, was a leading advocate of women's suffrage and a writer on political and educational subjects She died Aug 5, 1929

Fawkes Guy English conspirator Born enlisted as a soldier of fortune in the Spanish army in Flanders, returning to England in 1604 at the suggestion of Thomas Winter, one of the conspirators in the Gunpowder Plot To Fawkes was left the actual execution of the plot, and he was arrested at his post, Nov 4, 1605, when the plot was discovered This was the day before the one fixed for the meeting of Parliament He confessed under severo torture, and with other conspirators was hanged, Jan 31, 1606 See Gunpowder Plot Fayolle Born at Le Puy, May 14, 1852 he entered the French army as lieutenant of artillery in 1875 In Aug 1914, he commanded the 70th division of infantry, and from 1915 19 his commands included the 33rd army corps the French 6th and 1st armies on the Somme, and the army of the centre on the Alsne He was commander of the French forces in Italy in 1917 In 1919 he commanded the French army

was commander of the French forces in findy in 1917 In 1919 he commanded the French army of occupation in Germany, and in 1920 he was French military representative at the League of Nations He be came a marshal of France in 1921, and died Aug 27, 1928

Feather Outgrowth from the skin constituting the protective covering of birds A tubular quill fixed in the skin develops into a squarish, tapering, pith filled shaft, supporting a vane of lath shaped barbs which, except in flightless birds, are interlocked Shattless down feathers with discontinuous barbs, forming in many birds thick undercoats are acquired in the egg or shortly after hatching

Featherstone Urban district of York coal mining town 176 m from London and 2 from Pontefract on the LNE Rly Pop (1931) 14,952

Featherweight Term used in sport In racing, a feather weight is the least weight that may be carried by a horse when running In boxing, feather weights form a class between the light weights and the bantam weights In Great Britain the rules are that a featherweight must be below 126 lb in weights. 126 lb in weight

Febrifuge Old term for a substance which allays fever It is also applied to such external remedial agents as cold baths and wet packs, the more modern term being antipyretic Quintue is the most popular of febrifuges, but many others have been introduced such as phenacetin, antipyrin, salicylate of soda, etc.

Fécamp Town and scaport of Normandy It stands where the river of the same name ialls into the English Channel, and is 28 m from Havre There is a harbour and from 356-58 Felix III reigned from 483 92 and Felix IV from 526 30 Felix V was Duko

the industries are chiefly shipping and fishing Benedictine is made here In the Middle Ages Fécamp had a nunnery which later became a famous Benedictine abbey Pop 17,200

famous Benedictine abbey Pop 17,200

Federalism System of government in which states are united for certain purposes, but for others are independent, each managing its own affairs. The United States, Germany, Brazil and Switzer land are federal states, as, in the British Empire are Canada and Australia. The division of power between the federal government and the separate states is laid down in the constitution and varies between one and another Some matters, foreign relations, defence and tariffs for instance, are almost always given to the federal government, education is usually left to the states. In some constitutions, the states retain all rights not expressly handed over to the federal government in others the states have only the powers specified as belonging to thom. The government of a federal state is usually by a legislature of two houses and a cabinet of ministers. One house represents the people and the other, the upper house, represents the

by a legislature of two houses and a cabinet of ministors. One house represents the people and the other, the upper house, represents the states. In the United States, each state sends two members to the Senate, in other countries the number depends on the population. In addition each state has its own legislature. The federal government often sets aside for its own capital a piece of land which is outside all the states. Washington and Canberra are examples of this federal territory. The Federated Malay States are a group of states in the British Empire united in a kind of federation. See Malay States.

Federal Reserve System
Banking system of the USA designed as a
means of bank control, it was instituted in
1914 when it was considered necessary to take
control out of the hands of the Government
There is a board of seven directors, and under
them a chain of twelve local banks. All
national banks must subscribe for and be
tween them hold, all the stock. These banks,
which have wide powers of authority, issue
currency and paper money at their discretion

currency and paper money at their discretion Feilding Robert English rake, known as Boau heilding Born about 1651, he squandered a fortune and became notorious for his amours at the court of Charles II He commanded a regiment for James II, and at the Revolution followed him to Ireland, being a member of the Irish Parlia ment in 1659 Seven years later he was permitted to return to England Swift and Steele satirised him, and his portrait was painted by Lely He died May 12, 1712

Feisal 1885, he was a son of Hussein, who became King of the Helaz but was a vassal of the Sultan He was educated in Constant! nople and was one of the group that deprived

of the Sultan He was educated in Constantinople and was one of the group that deprived Abdul Hamid II of his throne in 1909 Returning to Arabia, he was occupied in fighting and in 1916 he was in arms against the Turks In 1918 he helped the British in Palestine and Syria, and he attended the Peace Conference in Paris in 1919 In March, 1920, he was proclaimed King of Syria, but abdicated in July In August, 1921, he was elected and proclaimed King of Iraq He died in 1933

Trains Name of five pones Felix I was

Felix Roman official in Judaca Paul preached before him at Jerusalem (Acts xxiii xxiv) He was then procurator of Judaea under the Emperor Claudius In v D 62 ho was re-called to Rome because he was accused of having oppressed the Jews

Felixstowe Watering place and urban district of Suffolk It is on the estuary of the Orwell, 16 m from Inswich and 84 from London, on the LNE Riv Steamers also go along the river to Inswich There is a fine promenade and the sands and bettlere are good.

There is a fine promenade and the sands and bathing are good. A station is established for fiving boats. Pop (1931) 12,037

Fellah Egyptian word for a peasant, or labourer on the land. About 62 per cent of the native population belong to this class. They are chiefly Mohammedans and live in villages under chiefs. The word is also used for similar classes in Palestine and Syria. The plural is fellahin or fellaheen.

Felling Urban district of Durnaum and a mile from Gateshead, on the LNE Riv The chief industries are coal mining and engineering, largely shipbuilding Pop (1931) 27,041

Dealer in fells. or skins

Fellmonger Dealer in fells, or skins Fellmongering includes the process of removing the wool from sheep skins, which is done by various means, including "sweating," soaking in a solution of lime, and by chemical treatment of the hides

Fellow Word for a male person It meant originally a companion or equal In a special sense it is used for a member of the governing body of a college at Oxford and Cambridge Such consists of a head, fellows and scholars The fellows are elected, sometimes after examination, and usually from the most brilliant members of the university Most brilliant members of the university Members of the governing bodies of certain schools, eg. Lton and Winchester, are called fellows, and colleges at London, Durham and elsewhere have fellows. The members of learned societies are called fellows, examples being FRS, Fellow of the Royal Society, and FBA, Fellow of the British Academy

Felo de Se One who commits murder upon himself, a suicide The act may be unintentional, as when, in attempting maliciousiv to kill another, a man runs upon his antagonist's neapon or is killed by the discharge of his own A felo de se was formerly buried on the highway with a stake through his body through his body. In 1823 this was replaced by night burial in the usual burial place without. Christian rites, in 1882 night burial anabalished and a religious service permitted

4

ŗ,

Felony Class of crime in English law. All crimes are cither felonies or misdemeanour, the more serious ones falling into the former category. Felony includes such Felony includes such crimes as murder, manslaughter and burglary Until 1870 the roods of a felon, i.e. one conone convicted of felony, were forfelted to the Crown

Felsite Hard, close grained rock repre-

of Savoy from 1416 to 1434, and in 1439 although still a layman, was chosen Pope in opposition to Eugenius IV. He was never recognised in Rome and was the last of the anti Popes. He died Jan 7, 1451.

Felix was also the nume of a monk who came to England in the 7th century and was made Bishop of Dunwich Felixstowe is named after him. The word means happy or fortunate.

The Roman effects in Tudore To the antisymmetry the same hardness and specific gravity and similar crystalline shape.

Here is Felsted School, founded by Lord Rich in 1564 Now a large public school, it Rich in 1564 Now a large public school, it has modern buildings holding about 300 boys, and extensive grounds Pop 2100

Fabric made by beating or pressing together the moist fibres of wool and certain kinds of hair Wool owes its property of feiting to the interlocking of the scales on the fibre when subjected to rubbing or beating Usually waste wool and mixtures of various fibres are used for this purpose Felt is em-ploved for making carpets, hats gun wads and planoforte hammers Cow hair is used in making roofing felt The Foltmalers' Company is one of the London livery companies

Feltham Urban district of Middlesex It is 15 m from London, on the S Riv There are many market gardens in this neighbourhood, and here the London County Council has an industrial school

Pop (1931) 16, 16

Felucca Name given to a small vessel used in the Mediterranean It has one or two masts, a lateen sail, and often a rudder at each end

Feminism (Lat femina, a woman)
Term used for the movement that aims at putting woman on an equality, politically, legally and economically, with men It began in the 19th century, and soon after the Great War its advocates had achieved most of their aims In Great Britain women were given educational advantages, hitherto confined to men, they secured the vote and with it equal rights of citizenship. The learned protessions were opened to them, save only the ministry of the Church of England and some other churches A woman can sit in Parliament and in the Cabinet, and can hold most public offices In other countries the amount of freedom given to women varies, but in practi-cally all feminism has made enormous strides since about 1900

The aims of the feminists to-day are to break down the few remaining barriers to their entrince into public life and to secure economic equality with men not only in the civil equality with men not only in the civil service, but throughout professional and industrial life. To secure this involves the To secure this involves the abandonment of a principle, hithereo regarded as fundamental, that the wages of a man are not individual, but family vages

Fen Flat, low-lying land, at times wholly covered with water Certain marshy Certain marchy districts in Lincolnshire and other L counties are known as the Fen District

Fencible Word used in the 18th century for a regiment raised for home defence only. They consisted of both horse and foot soldiers, and were disbunded when the

need for their services vas over Fencing Pastime for which the two combatants we a light weapon called a foil sabre or epice. In the 15th and 16th centuries a knowledge of swordsmanship via

Fiacre Saint of Irish descent. He founded a monastery and guest louse at Breuil, near Paris, dying there about 670. His remains were transforred to Meaux

rathedral, he is commemorated on Aug 30 French hackney coaches, established in Paris in 1640, were named flacres because their first stand was at the Hôtel de S Flacre,

Paris.

Hat Legal term meaning "it must be done," issued by judges and other high officials of the law courts in certain circumstances, and differing from an order proper in not being drawn up in formal style For instance, legal action can only be taken in certain cases after the attorney-general has given his consent, or issued his flat

Fibre Thread like filament of mineral plant or animal derivation Plant fibres are of diverse origin and composition the hairs of cotton and the fibres of flax and ramic represent nearly pure cellulose in jute esparto and sisal, lignin is present, and in raffia and hemp, cutin is a constituent. Plant fibres may take the form of hairs bast fibres wood fibres, the cuticle of leaves or the whole stem itself. The hair or fur of animals supplies wool, mehair and other textile fibres the silk-worm provides silk, and the mineral asbestos forms an incombustible fibre.

Fibula Brooch or buckle, especially one dating from the early metal ages Neolithic bone pins were later reproduced in bronze by leoping one end and bending the other until the point reached the loop safety pins arose The Hallstatt period de veloped bold decorative forms, succeeded by a series of La Tène designs which are invaluable for dating antiquities of the iron age

The slonder hope on the outside of the leg-

The slender bone on the outside of the leg is called the fibula. It is bound by ligaments to the tibia or inner bone its lowered end form me a bony knob outside the ankle

Fichte Johann Gottlieb German philo sopher Born May, 19, 1762, ho was educated at Jeno, Leipzig and Wittenberg and later taught and wrote for a living He came under the influence of Kant and sub mitted to him A Critique of Revelation which was highly approved by the great philosopher In 1794 he became Professor of Philosophy at Jean and there wrote many philosophical books He had to resign in 1799 and retired to Berlin He died Jan 27, 1814

Fiction Word used for imaginative prose literature. The fiction of to day takes the form of novels, but the romances of an

earlier day are equally fiction

earlier day are equally fiction

A legal flotion is defined by Blackstone as an idea put forward to prevent a mischief or remedy an inconvenience that might result from the general rule of law Legal fictions were invented by the lawyer to overcome difficulties in the way of obtaining justice "The king never dies' is an example

Fief Name given to a landed estate in feudal times. It was land which was held on condition that the holder rendered certain services usually in time of war, to his overlord. The word fee comes from it, as dues the Scottish feu

He has a reddish yellow throat and a black-est spotted breast. The song note is low and out twittering, the call note loud and harsh

Fielding Henry English novelist. Born in Somerset, April 22, 1707, he was educated at Eton and then went to Leiden After his return to England he wrote plays and studied law for some years until in 1749 he was appointed a magistrate for Westminster, where he sat fairly regularly until his death at Lisbon Oct 8, 1754

One of England's greatest novelists, Fielding One of England's greatest novelests, Fielding is known as the author of Joseph Andrews, Tom Jones and Amelia Tom Jones deals with episodes in the author's own life, and is regarded as one of the greatest works of fiction ever written, full of humour, although coerse according to modern ideas. He also wrote Jonathan Wild Thackeray in his English Humorists pays homage to Fielding's gonius

Fielding William Stevens Canadian statesman Born at Halifax, Nova Scotla, Nov 24 1848, in 1864 he became a reporter on the Halifax Morning Chronicle, and later managing editor of that paper in 1882 he was elected to the legislature of Nova Scotla, and from 1884 96 was Prime Minister In 1896 he entered the Dominion House of Commons and from then until 1911 was Minister of Finance under Sir Wilfred was Minister of Finance under Sir Wilfred Laurier He occupied the same position from 1921 to 1925 when the Liberal party was again in power, and died, June 23, 1929

Field Marshal Highest rank in the British army It dates from 1736 There must not be more than eight field marshals, apart from those of honorary rank such as the king of the Belgians A buld marshal carries a baton as a sign of his rank, and wears on his uniform the representation of two crossed batons. The equivalent rank in the navy is admiral of the fleet, and in the air force marshal of the air. The form marshal is used in the French and other European armies

Field Mouse Popular name of several rodents which are not house mice They include the long tailed, mus sylvaticus and various species of voles especially the short tailed and the red field moure or bank vole, all very destructive to British field and forest produce

Fiery Cross arms in Hi hland Scotland Two crossed sticks of light wood were charred at the ends and dipped in goats blood Sent by clan chieftains from place to place by swift messengers it rendered any clansman, who did not answer the cail, liable to the death penalty. It lingered until the rebellion of 1745

Fiesole City of Italy It stands on the Arno, 3 m from Florence and is visited for its beautiful surroundings Flesole was a flourishing city of Ltruria before the foundation of Rome traw plaiting is now its chief industry Pop 10,500

Field are Large species of thrush (turdus spend autumn and birch forests multitudes spend autumn and birch forests multitudes spend autumn and birch forests multitudes they nest in colonies, and feed on grubs, large and berries. The male, 10 ins in length

line, Kirkcaldy, St Andrews and Buckhaven | line, Kirkcaldy, St Andrews and Buckhaven
The county has some rich coal mines and there
is a good deal of fishing. It is served by the
LNL Riv. The Eden and Leven are the
principal rivers. Historically, the kingdom of
life as it is called, is one of the richest parts
of Scotland. St Andrews and Dunfernline
especially are full of memories of the past,
and there are many small burghs, Kinghorn,
for example, that have historic and interesting
associations with the old Scottish kings. Pop
(1931) 290.000 (1931) 290,000

Fife Duke of British title held by the family of Duff In 1735 William Duff who had large estates in Banfishire and Aber who had large estates in Banfishire and Aberdeenshire, was created an Irish baron, and in 1759 Earl Fife and Viscount Macduff James the 5th earl, was created a British peer in 1857 as Baron Shene He died in 1879 and was succeeded by his son, Alexander William George, who, on his marriage in 1889, to Louise, eldest daughter of the Prince of Wales, was created Duke of Fife On his death, Jan 29, 1912, his Irish title, that of I arl Fife, became extinct, but the British dukedom and earldom, under the special remainder, presed to his elder daughter Princess Alexandra, who became Duchess of Fife She was born May 17, 1891, and in Oct 1913, married her cousin, Prince Arthur of Connaught Their son, the beir to the title, of Connaught Their son, the heir to the title, is known as the Earl of Macdust The Princess Royal, wife of the duke, died Jan 4, 1931

Fig Genus of fruit bearing trees (ficus)
The common f carica, cultivated from
antiquity in the Mediterranean region, bears
pear shaped receptacles containing nearly
closed cavities within which the flowers are fertilised, largely through the agency of wasps, as-leted artifically. It was introduced into l'ingland in Tudor times, but fruit ripened there cannot rival the figs of commerce which come from Asia Minor and thereabouts. The sycamore fig., f sycomorus, yielded the light and which the Leyptians used for mummy cases See Bo TREF

Figaro Chief character in Beaumarchais' comedy, The Barber of Scrille, 1775 He reappeared as a valet in The Marnor of Figure, 1784 and as a subdued philosopher in La Merc Coupable, 1792 He personfled adroit wit courage and galety. Rossini utilised the first play and Mozart the second for still better known operas. The name was adopted by a safirical Parisian journal founded in 1826, and parising in 1826. Journal founded in 1826, and revived in 1854 It still exists as a morning daily with a literary supplement and an illustrated monthly

Fighting Fish Small freshwater (tetta) It is found in both Asia and Africa and seldom exceeds 4 ins in length. In Siam one species. b pugnar, is bred for sporting contests under recognised rules the combats helps watched by numerous spectators and associated with heavy betting Normally grevi-h-brown, the fish assume dazzling liveries nuring the breeding season and when fighting

Fighting Top Term applied to a character built high up on the most of a war ves el In ancient times it served as a place for archers and later for rife men. In modern vesels the lightling top is used as a station for office in charge of the fire control.

Figwort Grous of herbs of the snap-

They are natives of Europe, temperate Asia N Africa and, rarely, of America Often fetid, they are mostly possessed of creeping rootstocks and opposite leaves, the panicles of rootstocks and opposite teaves, the painties of greenish-purple or yellow flowers bearing two-valved capsules. A decoction made from the knotted figwort, s nodosa, is an empirical remedy for swine scab

Fiji Group of islands in the Pacific Ocean
They form a British Crown Colony and cover 7083 sq m Of the 250 islands about 50 are inhabited. The three largest

and cover 7083 sq m Of the 250 islands about 80 are inhabited The three largest are Viti Levu, Vanua Levu and Taviuni, and since 1880 the colony has included the island of Rotuma some distance from the main group Suva on Viti Levu is the capital The soil is very fertile and sugar coconuts, bananas and other tropical products are exported. The islands, which are inhabited by a native race, were discovered by Tasman in 1643. In 1874 they became British. They are under In 1874 the detaile British They are didder a governor who is also high commissioner for the Western Pacific, an executive council of eight members and a legislative council of 21, partly elected and partly nominated Pop (1931) 185,573, of whom 93,414 are Fijians, 76,722 Indians and 5058 Europeans

Filbert Fruit of cultivated varieties of corplus arcliana) A leathery hash encloses the nutshell. It grows especially in Kent, and is much esteemed in America Larger varieties are known as cob-The name comes from S Philibert, whose day, Aug 22, fell in the nutting season

Sir Luke English artist Born at Liverpool, Oct. 18 1844 he Fildes studied at South Kensington and the Royal Academy Schools, and for a number of years produced black and white illustrations for books and magazines. His paintings, of which The Doctor in the Tate Gallery, London, is a well-known one, are of a sentimental and somewhat mechanical character 1 rom 1887, when he was elected a Royal Academician, he did little but portrait painting He was knighted in 1906 and died Feb 27, 1927

File Steel tool furnished with sharp edged ridges or points It is employed for smoothing irregular metal surfaces and to sharpen saws Some are round or square, others triangular or flat and either parallel edged or tapered A float-cut file has parallel furrows, whilst a cross-cut file has the furrows crossed Another kind of file is a folder, often fitted with clasps in which records and correspon-

dence are kept

Another file is a body of soldiers ranged one behind another hence the phrase rank and file

Filey Urban district and watering place of Yorkshire (ER) It is 9 m from Scarborough, 240 from London on the LNE Riv The town has good sands bathing

and other attractions for visitors, including the gardens. It stands on Filev Bay to the north is a ridge of rock nearly 1000 vds long called Filev Brig. Pop. (1931) 3730

Filigree Ornamental work carried out in fine wires of gold, silver copper or other metal. The wire is arranged in the required pattern upon charcoal and is exposed to be at when the charcoal being reduced to to heat when the charcoal being reduced to ash the welded filigree work is left. Granular filigree was made by the Etyuscans by welding together very minute globules of gold to form wire like designs of great beauty and delicacy Often filigree is combined with work in enamel and precious stones

Filipinos Collective name for the Christianised natives of the Philippine Islands Of Malay descent they number 8,500,000 the remaining 3 500,000 inhabitants of the islands are largely Moslems and pagans Before the American occupation, 1898, a Liga Filipina sought to improve their condition See Philippine Islands

Fillmore Millard American president Born Feb 7, 1800, in the state of New York, he began life as a teacher, later becoming a lawyer at Aurora In 1829 he was elected to the state legislature He sat in the House of Representatives, 1833 35 and 1837-43 In 1848 he was elected vice president and on the death of Zachary Taylor in 1850 he became president His short term of office, which ended in 1852, was not very distinguished In 1856 he was a candidate for the presidency again, but only one state voted for him. He died at Buffalo, March 8, 1874

the presidency again, but only one state voted for him. He died at Buffalo, March 8, 1874

Film In photography the flexible material used instead of glass in the making of negatives It was first introduced for general photographic work by the Eastman Co in 1891 The particular value of the film for cinematographic work was soon recognised by Edison, who used it first in his kinetoscope, since when the chematographic film has grown in importance Celluloid was originally used as the material of films, but owing to its inflammability a non inflammable film made from cellulose acctate is now in use

The making of films for the chema houses is an enormous industry, in which perhaps \$400,000,000 is invested Its chief centre is Los Angeles but films are also made in the studios at Elstree, Shepherd's Bush, Ealing, and other places in England A duty is charged on all films imported into Great Britain and since 1927 it has been compulsory for a certain proportion, increasing each year to 1936, of British films to be shown Films are censored by a board appointed by the trade In 1932 it was decided to establish a national film institute from funds obtained from the Sunday opening of cinemas See Cinphatograph

Filter Apparatus for separating suspended

opening of chemas See Cinfuatograph

Filter Apparatus for separating suspended advance has been made during recent years in the study of filtration and the designing of filters. The pervious materials for filters are very varied and range from special absorbent paper and various fabrics to sand powdered glass, quartz, charcoal stoneware, asbestos and iron gaure Public water supplies are filtered through sand and thus, not only suspended solids, but also pathological bacteria are removed Filtration is an important process in many industries for example in the manufacture of sugar, beer, oils, chemicals, paint, etc. paint, etc

Finance Management of money National finance concerns the income and expenditure of the nation and similarly there are local and other kinds of finance. The finances of business houses have passed largely into the care of trained accountants. The proposals put forward each year by the Chancellor of the Exchequer are embodied in the Finance Act

Finance Act
Finch Name of various small perching the finch family are distributed over all temperate regions except Australasia. The same occurs almost always in composition, e.g., the common British resident bullfinch, chaffinch, goldfinch, greenfinch, and hawfinch,

and the casual visitors citril, serin and snow finch Closely aillied are the resident siskin, bunting, house sparrow, linnet and redpoll, and the migrant brambling Their hard, conical, smooth-edged bills facilitate the shelling and eating of seeds

Finchley Urban district of Middleser, really a suburb of London It is about 6 m to the north of the city and consists of several districts Pop (1931) 58,961

Findhorn River of Scotland It rises in the mountains of Inverness shire and flows through Elgin and Nairn to the Moray Firth It is 62 m in length There is a small senside resort of the same name on the cast side of Findhorn Bay, an opening

on the east side of Findhorn Bay, an opening of the Moray Firth

Findon Village of Kincardineshire It
Abordeen and is a fishing centre The Findon or Finnon hadded, takes it name from hore
An English Findon is a village in Sussex.

It is near the Downs, just outside Worthing

Fine Arts Term used to include such forms of art as painting, drawing and sculpture to distinguish them from those which are more mechanical, utilitarian and of the nature of crafts The term, however, is a somewhat loose one, as obviously the various branches of art overlap one another

To look after matters affecting fine arts in Great Britain a Royal Fine Arts Commission was set up in 1924

was set up in 1924 Finedon Urban district of Northampton shire It is 681 m from London by the L MS Rly, and is 3 m from Welling

by the LMS Rly, and is 3 m from Welling borough Iron is mined, and shoes and boots are manufactured Pop (1931) 4100

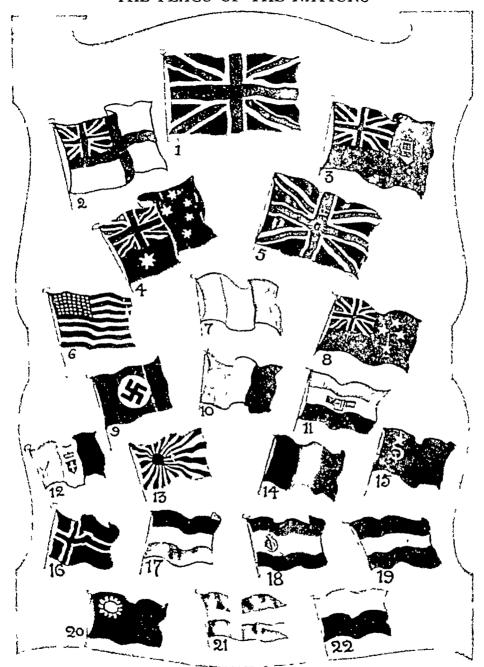
Fingal the Irish hero, corresponding to of Morven in Argylishire and was a great warrior, who was killed in battle He is remembered by many legends and by the cave in Staffa, called Fingal's Cave Discovered in 1772, it is the most famous cave of its kind with columns of basalt on which the light makes wonderful effects

makes wonderful effects

Finger Terminal member of the hand being sometimes reserved for the four digits, excluding the thumb The three joints are united by ligaments whose back and front tendons straighten and bend the digits Two small arteries and nerves line cach side The skin is strong and sensitive, the tip being specialised into a nath the finger itself lacks muscle or fiesh The sense of touch is in the fingers and in some persons, especially the blind, is highly developed

Finger-and-Toe Popular name of a destructive plant disease It causes malformation of cruciforous disease It causes malformation of cruefferous root crops, such as turnips, radishos and cabbages Also called anbury and club root, it is caused by a microscopic silme fungus; plasmodiophoria brassicae, whose spores in the soil enter the root, producing nodules or warty outgrowtha which sometimes swell and rot with offensive odour. The disease is infectious and difficult to eradicate lime arcessing sometimes reduces it. Diseased roots should be burnt and not fed to stock.

### THE FLAGS OF THE NATIONS



1. Great Britain, Union Jack 2 Great Britain, White Ensign (Royal Navy) 3 Canada 4 Australia 5 India 6 United States of America 7 Irish Free State 8 New Zealand 9 Germany 10 France 11. Union of South Africa 12 Italy 13 Japan 14 Belgium 15 Russia (Union of Socialist Soviet Republics) 16 Norway 17 Netherlands 18 Spain 19 Austria NST 20 China 21 Sweden 22 Poland.

long to show the unchanging character and individuality of every finger tip's ridges and furrows Henry devided a practical system of classification for the London metropolitan police, based on arches, loops, whoris and composites, with soven sub-classes or the loops. with seven sub classes, composites. simple recording appliances being required A classified finger print index to all known criminals, exceeding 250,000, is kept by the London police

Finistèrre the north-west point of the country, owing its name (land's end) to its position. Here the British fleet gained a victory over the French on May 3, 1747. For

this Admiral George Anson was made a peer A department of France is named Finistere This is part of Brittany in the north-west

of the country Quimper is the enter country of the country Republic of Europe Russia, Finland Sweden and Norway form its and boundaries, whilst on the south and most of the west its borders are the Baltic Sea, on which it has 1200 m of coast line. Its area is 132,589 sq m including the Aland Islands and a number of other islands. Most of the land is flat and there are many large lakes. Part of Lake Lagoda and a piece of Landar are in the resulting the Halsingtons (or Lapland are in the republic Helsingfors (or Helsinki) is the capital and the largest town Others are Abo (Turku), Tammerfors, Viborg and Vasa

For some centuries Finland was part of Sweden, but in the 16th century it became a grand duchy. In 1809 it was handed over to Russia, which had previously secured part of it and the tsar became grand duke Later there was a good deal of trouble between the Finnish and the Swedish elements in the

population

The country was, in 1917, declared a sovereign and independent state. It is governed by a president, elected for six years by universal suffrage and a council of state. These are suitage and a council of state These are responsible to a house of representatives of 200 members. Socialism is very strong in the country and against communism repressive measures were found necessary in 1930. The chief occupation is agriculture. Rye, barley and onto are grown. There are immense areas of forest and timber and tubes are the of forest and timber and pulp are the principal exports. Horses and cattle are kept, owned and transport, especially of timber, is facilitated by the numerous lakes which are joined by canals Finland has an army recruited by universal service, a small navy and an air force Lutheranism is the national policion. The country adopted prohibition but

in an air force Lutheramsin is the antional religion. The country adopted prohibition, but in 1932 it was abandoned

The unit of currency is the markka, worth 11d and stabilised at 39 70 to the dollar The Bank of Finland is the state bank. The metric system of weights and measures is used. The population of the republic is 3,667,067. Of these 342,916 speak Swedish nearly all the

others are Finns

The Gulf of Finland is a branch of the Baltic It is 250 m long and lies between Finland

and Estonia

law courts for purposes of identification in 1858, and Sir E Henry into the Bengal police for crime detection Sir F Galton laboured the city of London and includes Clerkenwell In it are the Charterhouse and Bunhill Fields Finsbury Pavement, Finsbury Square and Finsbury Circus are in or near the borough Pop (1931) 69,888

FIRE ALARM

Finsbury Park is a district just outside the boundary of the county of London The name is primarily that of a recreation ground opened in 1869, but has become attached to a great milway junction and traffic centre, where the L.N E and Underground Rlys connect.

Finsen Light Apparetus invented by Finsen (1860-1904) for the treatment of the virulent skin disease, lupus The actinic ravs from an arc lamp are transmitted through a light filter and, after being concentrated by passing through quartz lenses and cooled by a stream of water, are brought to bear upon the diseased part

F11 General name for various resinous cone-bearing trees yielding usoful timber The true, or silver, fir, abuse pectinata, abounds in central and S Europe, often reaching in English pyrks a height of 90 ft The Norway spruce fir picca czcelsa, Europe's stateliest tree, may reach 170 ft Other genera vield the hemlock, Douglas and Japanese parasol firs The needle like leaves of firs grow singly on the shoots, not in sheathed clusters, as in larches and pines the Scotch fir, pinus sylvestris, is properly a pine

Firdausi Persian poet His real name was Abul Kasim Mansur, and he lived from about 940 to 1020 His great His great work is the epic poem, Shahnamah or Book of Kings, which contains 60,000 lines and relates the history of Persia from the earliest times

Fire Any manifestation of glowing heat, more particularly the visible heat and light produced by high temperature on combustible or inflammable substances Combustion may be attended by flame, with or without non-luminous vapour or smoke without non-luminous vapour or smoke Fire is generated naturally by solar radiation and other means. After being recognised by primeval man as a physical fact, it was slowly brought under control, utilised for defence against wild beasts, preserved, artificially produced at will and converted into a mighty auxiliary of man's conquest of the globe

The worship of fire is still practised by some primitive people of Africa, Asia and America In ancient Mexico, in pre-Arvan India and in early Persia fire worship was an important element of the popular religion.

FIRE INSURANCE—Insurance against loss by fire is one of the electronic producer therefore.

by fire is one of the oldest and most important branches of insurance. It is undertaken by all large offices and practically every building in the civilised world is insured against fire as well as furniture and other household possessions. In Great Britain the premium on an ordinary house or shop is very low, but it is higher on factories, especially those where any inflammable material is used The premium is reduced in cases where fire extinguishing apparatus is installed

Finn Legendary hero He is associated many stories are told about him He was the son of a king and became the leader of the Flanna The word him means fair one In Scottish legend he is known as hingal into a thermometer tube one wire is in con-

FIREATM Weapon discharged by means in the 14th and 15th centuries primitive cannon or bombards were made of wood, leather or iron bars, and throw stone balls iron brass or bronze cannon and mortarior brass or bronze cannon and mortarior brass or bronze cannon and mortarior brass were armed first with the arquebus and soldiers were armed first with the arquebus and later with the matchlock, musket and pistols Soldiers were armed first with the arquebus and later with the matchlock, musket and pistols In the 19th century, with the adoption of the percussion cap, the breechloader came into use, followed by the rifle and revolver and a person may not possess use an armondance of the property o

use, ionewed by the rine and revolver
A person may not possess, use or carry a
frearm unless he holds a certificate which costs
for the first year and 2s 6d afterwards, and
for delition with a few executions either a conos for the first veir and 28 od afterwards, an in addition with a few exceptions, either a guin licence (costing 10s a year), or a game licence (costing from 21 for 14 consecutive days to 23

Fire Brigade and trained to deal with outbreaks of fire brigade to man district has its fire brigade and trained to deal and trained to deal with outbreaks of fire brigade. The larger ones district has its fire brigade and trained to deal with outbreaks of fire brigade. The larger ones of the larger ones of volunteers and the pumps, hose consists of powerful motor pumps, hose consists of The largest fire brigade, the ladders, etc. The largest fire brigade, the London Fire Brigade, has a staff of 2000 men London, S L 1

Variety of clay able to with-

Fireclay Variety of clay able to withto the absence of fusible constituents. It resists to the absence of fusible constituents. It results corrosion and is unaffected by sudden changes of temperature. Eireclay is worked at Stour bridge and many places in the coalfields and is used for making crucibles, stove backs, furnace and over these.

and oven linings

Fire Damp to methane or marsh gas
It tends to accumulate in coal mines, escaping
It tends to accumulate in coal mines, escaping
specially when there is a sudden drop in
atmospheric pressure Marsh gas when mixed
with air explodes with great violence in contact
with a naked flame, hence the necessity for the
with a naked flame, hence the necessity for the
special particles. Mechanical device used

Fire Engine

was of safety samps

Fire Engine

Mechanical device used fire
for extinguishing fire
the means of water
the earliest type was a
line earliest type was a by means of water 100 earnest type was a borness hand squirt or pump, but in 1672 the brass hand squirt or pump, but in 1672 the brass manual engine with flexible leather hose type invented. was manual engine with nexible leather nose was invented Steam fire engines came into use in London in 1850, but the modern type is petrol driven with pumps capable of throwing boave strenge of water to a capable with heavy streams of water to a considerable height.

cases, utilising materials which evolve carbon dioxide as a gas or as foam

dioxide as a gas or as foam

Fire Escape the escape of persons knotted rope fastened to a window frame, or known of escape is to the ground Another form of escape is to the modern portable wheeled provided by external iron staircases wheeled buildings. The modern portable wheeled buildings, the modern portable wheeled buildings, the modern buildings, the modern buildings and the will be societies all over the country and other societies all over the country and other societies all over the womb. Term denoting, in Joeneth Firstborn life, "that which oven when and capable of reaching a height of over second child follows To commemorate the second child follows To commemorate.

PIKEAKIVI

text with the mercury in the bulb, the other is placed at a point above the mark of normal temperatures. When the mercury rises to temperatures when the circuit is completed and the upper wire, the circuit is completed and the bell rings In 1930 a fire alarm of the loud the bell rings installed in Edinburgh speaker type was installed in Edinburgh weapon discharged by means when the second is the last abdominal segments.

Hirearm Weapon discharged by means of the last abdominal segments

Fireproofing

Method of treating fabrics, wood or paper ries, wood or paper with chemical solutions to render them more with chemical solutions to render them more or less noninfiammable. Sodium silcate, sodium tungstate and potassium tungstate the following have been suggested, borax, ammonium chloride, phose suggested, borax, ammonium chloride, phose and since sulphate, alum, salt, sodium sulphate and zinc sulphate, alum, salt, sodium sulphate fireproof covering for steam pipes and flooring fireproof paints, or the application of limewash are useful for preventing wood from catching fire

Fire Ship Device used in ancient and mediaeval warfare A vessel alled with tar and other inflammable material from catching fire was set alight and allowed to drift among one my ships in order to ignite them and create one party of freships were used. enemy ships in order to ignite them and create a panic A number of fireships were used against the vessels of the Great Armada when they were anchored in the Calais Roads on the night of July 27, 1588 causing a panic and the scattering of the Spanish vessels

and the scattering of the Spanish vessels and the scattering of the Spanish vessels are to be spanish vessels.

Pireworks an explosive or inflammable neture used chiefly for purposes of display for purposes of display or the art of the making of fire pyrotechny, or the art of the making of fire pyrotechny, or the art of the East from remote works, has been known in the East from remote times, and was introduced into Europe about the 13th century. In the 17th century, pyrothe 13th century in the 17th century, pyrothe in the 13th century with the art took place in the 13th century with the introduction of chlorate century with the introduction of colorate with a greatest prilliancy of potash, magnesium and aluminium giving of potash, magnesium and aluminium giving of potash, magnesium and sulphur, which stances such as office or consist of substances and scand sulphur, which is gried or explode in contact with an oxygen potash. Some mixtures containing interest of yielding substance, such as nitre or chlorate of yielding yielding yielding yielding yiel

Firework displays are given at ittes and celebrations of any kind Those at the Crystal authorities

Measure once used for liquids

Firkin It equalled 0 gallons, or a quarter
of a barrel, and was chiefly used for beer
A firkin of butter weighs 56 lb

First Aid Term used for the assistance given at once in case of accident or sudden illness A knowledge of a few dent or sudden illness a knowledge or sudden illness a knowledge or sudden illness a k

after one month were redeemable, as a substitute for this national obligation, the tribe of Levi was chosen for service thus inaugurating the hereditary priesthood. The redemption of the first born 30 days after birth is still solemnised Firstling animals if clean were sacrificed, if unclean were re-

First Empire Term used by hisin France between 1804 and 1814 In May, 1804 Napoleon was made emperor and his empire existed until his abdication in April, 1814 The second empire was the period, 1872 70 when his nephew, Napoleon III, was emperor

First Fruits Earliest gatherings of a grade an offering to God of a portion of the first fruits, a sixtleth or a fortleth turily observed in the early Christian church, the fruits were later claimed by the clergy as part of their stipend. Plast fruits were sometimes payable under feudal law, and in the 12th century the papacy claimed this foudal rigit over all benefices in Christendom These were paid often under protest in England until the Reformation, when they were made part of the royal income Elizabeth reserved such annates for the grown. Anne restored them to the church as Queen Anne's Bounty

First Offender Term used in 1 nelish who has committed only one offence In 1887 n law was passed ordering magistrates to bind over such persons to be of good behaviour instead of scaling them to prison. The offence with which the their offender is guilty must, of course, he a minor one. To-day first offenders are often put in charge of a probation efficer the looks after them for a stated period, as provided for by an Act of 1907, which replaced that of 1887

First Republic Term used by his period from 1792 to 1804 when France was a republic The monarchy was abolished in 1792 and in 1804 Napoleon was declared emperor. The second republic began with the full of Louis Philippe in 1848 and ended in 1852 when Louis Napoleon made himself emperor. The third republic began on the fall of Aapoleon III in 1870 and is still in existence

Firth Arms common in Scotland for an arm of the sea such as the Solvar and Pentirud Firths and named after the rivers where these enter such as the Clyde Forth and Tay In Inzland a fifth is called an estuary and fiord is the Norwegian equivalent

Fish Word popularly designating a swim ming animal Loosers applied to such marine manuals as thates and dugongs, such amphibitions as not to and such inverte brates as cutile ush shell fish and star fish. it properly denotes a cless of cold blooded vertebrates living in water and breathing through gills. The body is usually covered with a cless and the limbs, when present, are represented by paired time Reproduction is mainly by eggs ferallised after being spawned the endy of ush is called ichthyology. See Prenting Figura a

The preserving of fish for food purposes is a large industry. At Yarmouth and elsewhere in Great Britain the curing of herrings

deliverance from Egyptian bondage all first- is carried out on a large scale Salmon, lobster both human males were consecrated, but and other fish are capied, an important inis carried out on a large scale Salmon, lobster and other fish are canned, an important Industry in British Columbia and Calfornia Cod is cured in Newfoundland and Norway. Sardines and anchovies are prepared and packed in oil in France, Italy and Spain To conserve the supply of fish, hatcheries, as they are called, have been established in England these exist for trout, in North America they are used on a large scale for the irreduce of salmon and other river fish

treeding of salmon and other river fish

Fisher Andrew Australian statesman Born near Kilmarnock, Aug 29, 1862, he worked for some time as a coalininer. and in 1885 went to Queensland, where he was elected to the state legislature in 1893. Van cleated to the state legislature in 1893, In 1900 he became a member of the Common, wealth parliament. He was minister of trade and customs in 1901, lealer of the Labour parts in 1907, and prime munister 1908 09 and 1910 13. He was High Commissioner in Friedmid, 1915 21. He died Oct. 22, 1928

Fisher Herkert Albort Laurens English historian and politician Born in London, Mar 21, 1865, he was educated at Winchester and New College Oxford, remaining there as lecturer and tutor in history until 1912, when he was appointed vice-chancellor of Sheffield University He entered parliament in 1916 and was president of the board of education from 1916 to 1922, being responsible for the Education Act of 1918. He resigned his seat in 1926 A year earlier he had been appointed warden of New College, Oxford. He has written many books on historical subjects, including Stadies in Napileonic Statesmanship, 1903, also a study of Christian Science, 1929 In 1925 he was made president of the British Academy

Fisher John English prelate Born at Beverley about 1459, he was educated at Cambridge, and in 1504 was consecrated Bishop of Roches or In 1527 he was the only blahop who refused his assent to the declaration that the marriage of Henry Will to Catherine of Among was unlawful. VIII to Catherine of Aragon was unlawful, and in 1531 amin stood alone in relusing to swear to the Act of Succession. He was sent to the Tower, and while in prison was given by the pope a cardinal s hat He was beheaded on Tower Hill, June 22, 1535, for refusing to recognise Henry as head of the church. In 1886 Fisher was beatified

Fisher 1st of Baron Kilverstone admiral John Arbuthnot Fisher was born in Cevlon, Jan 25, 1841, and entered the navy in 1854 on board the Fictory at Portsmouth From 1865 1882, he saw much service during the Crimean War and in Chinese and I gyptian waters, being cancin of the Inflexible at the bombardment of Alexandria Inflictate at the compariment of Airx, narry Ho became first sea lord in 1904, resigning in 1910, but was receiled in Oct 1914 fluxlly resigning on May 15, 1915. He was knighted in 1891 and when a barony was conferred in 1909 he took the title of Lord Fisher of Kilverstone, Norfoll He died July 10, 1920.

Fisheries Industry that provides a vast quantity of food for mankind The most valuable fishing grounds in the world are the northern waters of the Atlantic Ocean, and Great British and the United States are the chief participators in the industry France, Norway and Canada are other nations with valuable tisheries. British fishermen take part in the cod fisheries of Newfoundland, and in fisheries in other parts of the world but their obled explanations.

other parts of the world, but their chief sphere

of operations is the North Sea, which is very the methods and the batt adopted differ rich in fish valuable for food Accordingly, according to the fish sought. Fishing for Yarmouth, Grimsby, Aberdeen and other places on the east coast are the chief British fishing ports. The herring is the chief fish caught, but haddock, mackerel, sole and turbot are also brought in Pilchards are caught off the coast of Cornwall.

The fisheries of the Linted States include rivers of North America and in the Coast.

The fisheries of the United States include a vast quantity of shell fish and salmon, the latter being caught chiefly in the rivers of the Pacific coast Somewhat similar are the Canadian fisheries. Norway concentrates chiefly on the cod and the herring France has valuable fisheries in the Mediterranean, where the anchovy, sardine and tunny are found Japan and Russia have also extensive fisheries, Russia producing sturgeon in great quantities

REGULATION AND CONTROL --Inter national law recognises the seas are open to all nations equally for the purpose of fishing therein, except for a beit round the coast which is the exclusive property of a par-ticular nation In certain areas, ep, New-foundland, fishing rights are regulated by

To look after the fisheries each nation has a department of state These collect statistics, issue regulations and from time to time take part in international and other conferences In England this is the Ministry of Agriculture and Fisheries in Scotland, it is the Fishery Board

MODERN DEVELOPMENTS --- Of late years great improvements have been introduced into fishing methods, which, until the 19th century, had been much the same for, perhaps, 2000 years Steam trawlers took the place of fishing smacks and more important still was the introduction of refrigerating methods, which enables the fish to be kept fresh and the fishing fleet to remain longer at sea. Sounding and other apparatus have been introduced to locate the whereabouts of the shoals Scientists have also been employed to investigate the habits of fish and to suggest methods for con serving the supply

In 1934 the tish of British taking (excluding river salmon and shellfish) landed in Scotland, England and Wales amounted to 931,431 tons, England and Wales amounted to 931,421 tons, valued at £15,503,895 Nearly 14 000 boats were employed and the number of men and boys engaged in fishing was estimated at 56,835 at the beginning of the year Nearly half the catch consisted of herrings Cod and haddook were the next in importance Whale and seal fisheries are not counted in the totals of national fisheries

Fishguard Seaport, urban district and market town of Pembroke shire It stands on the little River Gwaen, 12 m from Haverford west and 261 from London There is a good harbour and the G W Rly runs a service of steamers from here to Cork, Waterford and Rosslare, Ireland There Cork, Waterford and Rosslare, Ireland There is a little fishing In 1797 a small French force landed here, but it was soon made to surrender Pop (1931) 2963

Fishing Occupation or sport of catching fish It is one of the oldest of human pursuits and was at first carried on solely to provide food To day it has become proportions. As a sport fishing is usually called angling and is pursued chiefly in rivers, although a certain amount is done in the sea. The rod and line are invariably used, and

When carried on as a business, as it is in almost every country with a seacoast, fishing is chiefly done at sea, although there are extensive salmon fisheries in some of the rivers of North America and in the Great Lakes The fish are usually caught with a net which may be let down into a shoal and swept through the waters by trawlers In fishing for shell fish which is quite another branch, traps are usually employed. See Angling ANGLING

Fishmonger Dealer in fish The Fishmongers, Company is one of the great livery companies of London It existed in the 14th century or earlier and for long had the monopoly of the fish trade in London It has an income of nearly £50,000 a year and its hall is near London Bridge

Name of a noted Cheshire family, Fitton Name of a noted Chesnire family, also spelled Fytton They owned land at Gawsworth where they lived for some centuries and where there are momorials to them in the church Sir Edward Fitton, or Fytton, was lord president of Connaught in the time of Elizaboth Sir Alexander Fitton was lord chancellor of Ireland. He followed James II to France and was the last Fytton to hold the Gawsworth estate The most famous member of the family was Mary Fitton, mistress of William Herbert, 3rd Earl of Pembroke, and presumably the "dark lady" of Shakespeare's sonnets

Fitzgerald Edward English poet. Born at Woodbridge, Suffolk, Mar 31, 1809, he was the son of John Purcell, who took his wife's name of Fitzgerald in 1818 Educated at Bury St. Edmunds gerald in 1818 Educated at Bury St. Edmunds and Trinity College, Cambridge, his life was very uneventful His fame, however, was chiefly due to his translation from the Persian of The Rubbyth of Omar Khdyyám, first published in 1859 Other works from his pen are Six Dramas of Calderon, 1853, Salaman and Absal, 1856, and Readings in Crabbe, 1882 He died June 14, 1883

Fitzgerald Family A historic Irish house, descended from Walter, son of Other, who is mentioned in Domesday Bool as eastellan of Windsor His youngest son, Gerald, captain and constable of Pembroke Castle, married Nesta, elster of a Welsh prince, and became ancestor of the Fitz geralds The house was granted the Earldom of Kildare in 1316, and the 20th earl received the dukedom of Leinster in 1766 The heir to the dukedom carries the title of Marquess of Kildare

Fitzherbert Maria Anne Wife of George IV The youngest daughter of Walter Smythe of Brambridge, daughter of Walter Smythe of Brambridge, Hampshire, she was born in 1756 and married in 1775 Edward Weld of Lulworth Castle, Dorset In 1778 she became the wife of Thomas Fitzherbert of Swinnerton, Staffs, who died in 1781 Four years later she met the Prince of Wales, to whom she was privately the Prince of Wales, to whom she was privately married, Dec 21, 1785 Being a Roman Catholic, the union, according to law, was illegal, but not necessarily invalid However, in 1795 George IV married Caroline of Brunswick He later lived with Mrs Fitzherbert again until 1803 when the connection was severed She was granted an allowance of 26000 a year and died Mar 29, 1837

Fitzroy River of Queensland It is a union of the Dawson and the Mackenzie and flows through a very fertile country It falls into the sea at Keppel Bay Rockhampton stands on it and it is navigable

by small steamers to that place
Another Fizroy is a river in W Australia,
in the extreme north of the state
It flows for 300 m in a westerly direction and falls into King Sound on the Indian Ocean Filzrov is also the name of a north-east suburb of Melbourne

Melbourne
Fitzroy is the family name of the Duke of Grafton, a descendant of Charles II and the Duchess of Cleveland A member of the family, Robert Fitzroy (1805 65) commanded the Beagle in 1831, when Charles Durwin was on board as naturalist From 1843-45 he was Governor of New Zealand and afterwards meteorologist to the Board of Trade, his discoveries being of considerable value discoveries being of considerable value

Fitzroy Edward Augustus English Duke of Grafton's family, he was born July 24, 1869 Having passed through Eton and Sandhurst, he joined the 1st Life Guards In 1900 he entered the House of Commons as M.P. for S Northamptonshire and retained his seat until 1906, being again M P 1910 18 In 1918 he was elected for the Daventry division, as he was at all later elections to 1029 From 1922-28 Captain Fitzroy was Chairman of Com-mittees in the House of Commons, he was elected Speaker in 1928, and re-elected in 1929, 1931 and 1935

Fitzsimmons Robert English pugilist Born at Helston, Cornwall, June 4, 1862, at the age of nine he emigrated to New Zealand, and was trained as a blacksmith He won a heavyweight competition for novices promoted by Jem Mace, and soon after entered the professional ranks, recurring heavy and middle-weight thampion-ships of the world He fought his last match in 1912 and died Oct 23, 1917

Fitzwilliam Family of Fitzwilliam

since 1716 Sir William Fitzwilliam became prominent during the reign of Elizabeth, being Lord Deputy of Ireland 1571-75 and 1588-94 His grandson became an Irish baron in 1620 William, the 3rd baron, became an earl in 1716 The 3rd earl, also a William, received an English barony in 1742 and an English carldom in 1746

His cldest son, William Wentworth Fitz-william, succeeded to the titles in 1756 A What in politics, he became, in 1794, President of the Council under Pitt, and in Dec of the same year I ord Lieutenant of Ireland In 1798 he became Lord Lieutenant of the West Riding, he became Lord Lieutenant of the West Riding, Yorkshire, but was dismissed in 1819 for censuring the Peterloo Massacre In 1782 he inherited the great estates of the Wentworths on the death of his uncle, the Marquess of Rockingham. He died Feb 8, 1833, and the present earl is his direct descendant The family seat is Wentworth Woodhouse, Yorkshire, and the eldest son is known as Viscount Milton Milton

Another William Fitzwilliam, who died in 1542, was Lord High Admiral of England under Henry VIII and was created Earl of South-ampton in 1537

Fitzwilliam Museum belonging to the University of Cambridge Richard Fitz-william, an Irish viscount, who died in 1816, left to the university his valuable collection of

It is a books, manuscripts, pictures, engravings, etc., also a sum of money When a sufficient sum had accumulated a building was erected in Trumpington Street, and from time to time further donations were received. In 1931 extensive additions were made to the building by the generosity of the Courtauld family

> Scaport and city of Haly It stands on the River Recina at the Fiume north-eastern end of the Adriatic Sea, and is connected by rallway with Budapest There is an arch here dating from Roman times Frume has some manufactures, but the chief industry is shipping, for which there is an excellent

harbour Since 1929 it has been a free port
The city has had an eventful history Until
1914 it was part of Austria-Hungary, although 1914 it was part of Austria-Hungary, although its population was mainly Italian, except in the suburbs of Sushak where Croats predominated When the World War ended Fiume was claimed both by Italy and Yugosiavla, the latter on behalf of the Croats In Sept, 1919, Gabriele d'Annunzio (q v ) led a band of volunteers to the city, which he seized for Italy In 1920 by the Treaty of Rapallo, it was made an independent state This was distasteful to the Italians causing disorder which lasted until Italians, causing disorder which lasted until Jan, 1924, when a treaty was made between Italy and Yugoslavia By this Fiume and a small surrounding district was given to Italy, Yugoslavia receiving compensation Pop (1931)  $52,\bar{9}28$ 

Five Nations Name given to the American Indians It is due to the fact that it consisted of five tribes—Mohawks, Cayugas, Senecas, Oneidas and Onondagas Later they want joined by the Tuccorang and the constant the constant of the constant the constant of were joined by the Tuscaroras and became the Six Nations

Flag Popular name of various flowering herbs They usually possess swordshaped leaves, and mostly grow in moist situations Several species of iris are known as flars, eq, the yellow flag, common throughout Britain, and the blue and white flags, equally common in central and S Europe, from which handsome garden varieties are derived sweet flag, acorus calamus, rare in England, and naturalised in Scotland and Ireland, perhaps came from the Himalayas The corn flag is a gladiolus, the cat-tail flag is the reed mace

Flag Piece of material usually oblong, with a distinctive design, flown as a symbol or sign at the top of a flagstaff Each country has its national flag and some have several others. The Union Jack is the national flag of Great Britain and the Tricolour of These are flown on public building. France These are flown on public buildings, etc., indicating that they are national property It is customary to fly them at half-most on the death of an important person National flags are also flown over embassies and consulates A sovereign has his standard or flag which is flown over the house in which he is at the time residing

Flags play an important part in shipping very ship merchantman or warship, shows Every ship merchantman or warsing, should her nationality by her flag, and they are also her nationality by her flag, and they are also her nationality by her flag, and they which used for signalling. An admiral has a flag which is flown on the ship carrying him the flagship Commanding officers of lower rank fly a pennant, a long narrow flag The flag of the British Navy is the white ensign; the mercantile marine flies the red ensign Yachting clubs have flags, as have shipping lines, these being called house flags. In the army the flags are known as

colours See Ensign

Flag Day sold in the streets for the benefit of a charity such as the National Life benefit of a charity such as the National Life book Association The idea was started during the war period (1914 18), and much money is raised in this way The idea was soon abused that was decided that in the metropolitan and it was decided that in the metropolitan area no flag day may be held without the consent of the police Religious ascettes who mutual whipping, for practise scourging or bodily discipline or mutual whipping, for bodily discipline or of offending pricises and monks, voluntary FLAG DAY

penance Arising out of the punitive flagellation of offending prices and monks, voluntary scourging developed, after the 11th century into a practice which Cardinal Damiani and others a practice which Cardinal Damiani and Santhony of Padua were rigorous self scourgers. Frater Padua were rigorous self scourgers fractions established in 13th-century Italy on ities established in 13th-century Italy ducted public processions. The Black Death in 1348 witnessed revivals of this fanaticism in 1348 witnessed revivals of this fanaticism which was condemned by Clement VI, and stamped out by the Inquisition.

Flageolet Musical instrument. It was find the or flute a burning and had a flute like high tone Mozart wrote a part for the flagoolet in his Entfahrung aus dem Serail, but as the instrument is obsolete in the orchestra this part is now played on the piccolo

instrument is obsolete in the orchestra this part is now played on the piccolo. The ordinary six-holed tin whistle is a popular extant form of flaggeolet and gives a good idea of the tone and appearance of its good idea of the tone and appearance or the grobestral protection.

rood idea of the tone and appearance or its orchestral prototype.

Flagship which has an admiral on board. The admiral is in command of a squadron of a board of a board of a board of a squadron of a distinctive flag to denote the sbip from which ships or holds some other command, and has a distinctive fing to denote the ship from which his orders are issued. The Victory was Nelson's figship at Trafalgar and the lron Duke was Jellicoe s at Jutland A flagship, like any other vessel is under a captain who is responsible for the affairs, with which the admiral has nothing her affairs, with which the admiral is sometimes to do A commanding admiral is sometimes ner unears, with water the admiral mis nothing to do A commanding admiral is sometimes called a flat officer, his personal attendant is

a flag lleutenant

Flagstone capable of being split into

Flagstone capable of being split into

thin slices Having a close texture, great

to proving stores, steps, hearths and landings

for paving stores, steps, hearths and landings

to great the great have a close texture in color

to great the great have the great have a close to great

the great have been some search and is a whitish

creating the great have the

Fla1 Wooden agricultural instrument It Consists of two strong sticks bound together by though one forming the handle and the other the striking portion or souple It was formerly in general use for threshing corn in European countries

fame during combustion when it, or some constituent, is volatilised during the process. The heat of flame varies in the oxy-acetylene The heat of flame varies in the oxy-acetylene During the Great War the German troops who were trained to use liquid fire were called who were trained to use liquid free were called lamps which elected burning liquids to a considerable distance

siderable distance Perennial flowering Flame Flower here Also called the red hot poker, it is a native of S Africa, but flourishes in Great Britain The leaves, long and narrow bear bright red flowers at the end of long stems each thus resembling a poker of long stems.

or rong stems each thus resembling a poker Class of priests in Rome Thoir Plamen chief was the fiamen Dialis, or priest of Jupiter, whose characteristic vest ments included an olive crown, a white cap and a woollen toga, with a sacrifical knife. His wife, Flamunica Dialis, shared with him the daily sacrifices

doily sacrifices

Flamingo related to ducks They are videly distributed in the warmor regions widely distributed in the warmor regions of the wisted upside down They are found in great wisted upside down They are found in great flocks, particularly near the phoenicofleris flocks, particularly near the phoenicofleris region, making breeds in the Moditarranean region, making conical mud nests it is region, making conical mud nests it is region, making conical mud nests it is region, making with plack marks on the wings rosy white, with black marks on the wings.

Flaminius Hollyod in the 3rd century BC In 220 BC he was consor and built a circus and a road named after him. The latter, the via Flaminia, led from Rome and was the first via Flaminia, led from Rome and was the first Romen road to cross the country. He was killed

Via Flaminia, led from Rome and was the first Roman road to cross the country He was killed in the battle of Lake Frusimene, 217 B o In the battle of Lake Nicolas Camille Fronch Flammarion astronomer Born Feb 25, 1842 his greatest contribution to astronomy was his efforts to popularise it. by writing and

25, 1842 his greatest contribution to astronomy was his efforts to popularise it, by writing and lecturing His Popular Astronomi, translated in 1894, was widely read in England In 1887 his Popular Astronomi, translated in 1894, was widely read in England In 1887. He died June 4, 1925 he founded the French Société Astronomique He died June 4, 1925 he founded the French and astronomer He was born at Denby Borbyshire, Aug 19 1646, and born at Denby Derbyshire, Aug 19 1646, and of the Royal Observatory at Greenwich in 1676 of the Royal Observatory at Greenwich in 1676 by Charles II at a salary of £100 a year flamsteed was appointed Astronomer Itoyal 1684 be was presented with the like year Flamsteed revised the star Burstow, Surrey Flamsteed revised the star of the fixed stars He died Dec 31, 1710 of the fixed stars He died Dec 31, 1710

rand formerly in general use for threshing corn in European countries

Flamborough (E.R.) It is 4 in from Bridlington and here is Flamboroush with a lighthouse round numerous caves. Style of architecture that not numerous caves. Style of architecture that the 15th century. It is a late and debased form the 15th century in England in France in Style of the france in the 15th century in England in England. The style of the style of

a great deal of fighting in Flanders, especially around Ypres.

Flannel Loosely woven woollen stuff it is used for clothing, its softness and warmth rendering it especially suitable for sporting wear Some makes have both sides alike, others a long map on one side only Flannel was made in Walcz, but the chief British centres are now in Lancashire, especially Rochdale and Yorkshire Much flannel contains a proportion, sometimes high, of cotton Blankets are a special branch of the flannel manufacture

Flannelette is a cotton material made to resemble flannel It, too, is much used for clothing, but is rather inflammable

Flash Ornament consisting of three short pieces of black velvet ribbon sewn under the collar and hanging down the back It is part of the regimental dress of the Royal Welch Fusiliers. Its use dates from the time when queues of hair were worn, and the flash was introduced to prevent these from greasing

the coat or tunic

Flash Point Temperature at which a which will ignite with a rash upon the applicawhich will ignite with a nash upon the applica-tion of a flame. It is especially used in con-nection with the products of petroleum. To minimise the danger arising from the use of lamp oils the legal flash point of parafflin oil is placed at 73° F, to determine which several forms of apparatus have been devised in which oil is slowly warmed and its repower tested from time to time by a small gras flame a certain distance above the surface of the oil

Flashlight photographs are taken by means of an instantaneous brilliant light caused by burning magnesium powder An electric bulb lus now been perfected to serve the same purpose. It possesses the advantage of smoke-

le\*eness

In music one of the commonest signs Flat ridt It means that the note which is marked by it is lowered a semitone

Flat self-contained dwelling, usually on Flat one floor and part of a large building.
In England since the Great War the use of flats has increased enormously. Many large flats has increased enormously. houses have been converted into flats and new blocks of flats have been built, especially in London, many of them being large and luxurious buildings, as those in Park Lane and Baker St Some of them are service flats, meals being obtained from a special restaurant The rent of flats usually includes or Litchen or litchen The rent of flats usually meltides rates and the proprietor generally undertakes to look after the common entrance hall and other common ground. Some flats are let furnished. The law about flats is the same as for other dwellings. See Rates. Rent Flat-fish Family of fishes without air bladders. The 500 species, almost all marine, and inhabiting all sease except the polar, have compressed and flattened.

except the polar, have compressed and flattened bodies, the ever and nostrils being twisted round to the upper side, and the mouth beam away The fish swims on one side, and the under side, that rests on the sea floor, is colourless, the darkly pigmented, changes colour lively. The transparent and perfectly protectively The transparent and perfectly symmetrical young swim vertically. Important edible species include the hallbut, protectively

turbot, place, sole and flounder

as the Spanish and after 1714 as the Austrian, Netherlands. In 1794 Austria lost it. At the settlement of 1815 it became part of the kingdom of the Netherlands, and in 1830 of the locume pure of the sole rests upon the ground. It usually occurs in young persons of poor physique who new kingdom of Belgium. In 1914-18, there was a great deal of fighting in Flanders, especially a great deal of fighting in Flanders, especially a great deal of fighting in Flanders. have been exposed to much standing or to the carrying of heavy weights. There is pain and fatigue with a tendency to turn the toes outward. A change of occupation, with rest, tiptoe exercises and massage may suffice to cure it, or relicf may be obtained from a tiffcial supports Bad cases may need such as instep pads surgical treatment

Flatford Village of Suffolk It is near E River Stour The mill here was painted by Constable who also immortalised other scenes in the neighborhood of the services of the serv bourhood In 1928 the mill was presented to the nation together with the house called Willy Lot's Cottage The latter is now a guest house for artists

Flatulence Gas in the stomach or this arises from air gulped down nervously by despeptic persons, or from digestive dis-turbence and is expelled from time to time noisily into the mouth. In the bowel it usually arises from bacterial fermentation. March gas and hydrogen are formed from vegetables, and sulphuretted hydrogen and carbon distribulide from eggs and peas. There may be unpleasant rumbling, and violent expulsion.

Treatment.—The treatment of flatulence or wind, which is a comparate of the flatulence of the flatulence

wind, which is a symptom of indigestion should be mainly preventive-avoidance of habits of eating foods known to cause the condition Meals should be regular, three a day Nothing should be drunk with food, but plenty of water between meals Bicarbonate of soda in water essence of penpermint, soda-mint tablets, all serve to relieve an attack, and charcoal biscuits eaten at the end of a meal are beneficial

Flaubert Gustave French novelist Born at Rouen Dec 12, 1821, he studied law, but, after travelling for a number of years, took up literature. In 1857 he published Medame Bocary for which he and his publisher were prosecuted on a charge of immorphity, but the action was displaced and immorality, but the action was dismissed and the book was a great success. In 1862 he published Sciammbo, a picture of life in Carthage, L'Education Serimentale appeared in 1867 and La Tentation de St. Antoine in 1874 Other novels and two plays followed He died May 9, 1830.

Flavine Basic dve also known as acritar product acridine, and consists of a brownish nd crystalline powder soluble in water and alcohol it forms a pure vellow due for cotton and leather, and is used extensively as a powerful antiseptic in the trea ment of sleeping sickness, and in clinical surgery

Fibre used for linen thread and the Flax riax plant which produces it. The annual herb, hum usutatissimum has narrow lance-shaped leaves and purplish-blue flowers

It vields handsome garden varieties
Flax grows in Europe, notably in Russia, also in Ulster, Yorksaire and elsewhere. When ready, the tissues of the stems are separated by a process called retting and the tough fibres obtained are dried and when woren form linen. The seed rields lineed oil, used as a mainter's oil, the residual cake being a useful cattle food

New Zealand flux phormium tenar, is a plant of the lily family of which the leaf fibres are convertible into twine and rope Sa Linen

Flaxman John English sculptor He was born at York, July 6, 1755, a delicate, somewhat deformed boy, and spent his early years mainly in his father's plaster cast shop In 1770 he entered the Royal Academy schools in London, and from 1775-87 was employed by the Wedgwoods to design classical friezes and figures for their china ware Then he turned his attention to executing monumental sculptures and examples of his work are in many cathedrals and churches especially S Paul's Cathedral and Westminster Abbev Made A R A in 1797, Flaxman was elected R A in 1800 In 1810 he was chosen Professor of sculpture at the Royal Academy He died Dec 7, 1826

Order of small wingless insects, mostly Flea parasitic on mammals and birds The mouth parts are adapted for piercing and suck ing and the adult insect lives on blood, its bite being troublesome Owing to the length of its hind legs the flea is enabled to leap, in some

nind legs the field is chabled to leap, in some species, 200 times its own length

The human flea, pulex irritans breeds in neglected, dirty houses Rat fleas convey plague to man, and chicken fleas sometimes attack man, but do not remain with him

Fleabane Several herbs of the order representation of the order places of the order search of the order places of the order pl odour is reputedly obnoxious to ficas. Two British species of pulicaria extend to India, one was formerly used as a medicine for diarrhoa and dysentery There are two British species of engeron, and the Canadian species, E canadense, is naturalised in Britain Another fleabane, inula squarrosa, is called ploughman's spikenard

Flecker James Elroy English poet and dramatist He was born at Lowisham Nov 5, 1884, and was out East in the consular service from 1910 13 He died of consumption at Dayson Paris consumption at Davos Platz on Jan 3, 1915 A poet of great individuality and high quality his brilliant play, Hassan was published posthumously and produced in 1923

Fleece Coat of the living sheep removed at one shearing. The interlocking of adjacent hairs renders the shorn clip fairly Flecce wools are distinguished from dead wools, which are not derived from the living animal The ficece, after the shearing with hand or power implements, is roughly trimmed and bundled together ready for bailing After reaching the market or factory it is opened, examined and classified cased fleeces being those of approximately similar quality See Golden Flerce

Fleet River of London now merely an Hampstead and fell into the Thames at Black friars Its northern part was called the Holbourne and the rest the Fleet Ditch. In the 18th century it was covered in and became a sewer Its lower course was roughly along Farringdon Rd, Farringdon St, and New Bridge St

The Fleet gives its name to Fleet St , noted as the centre of the newspaper life of the country. This runs parallel with the River Thames from the Strand to Ludgate Circus.

The Fleet Prison stood on the cast side of what is now farringdon St Long one of the most famous of London's prisons, it was destroyed by rioters in 1780, but was soon abuilt Before 1850 it cased to be used as a prison and read a prison and read down.

a prison and was pulled down.

Fleet Urban district of Hampshire It is

Fleet 36 m from London, on the S Rly

He | Fleet Pond, covering nearly 100 acres, is one of the largest sheets of water in the S of England At Church Crookham 2 m away, tobacco is grown Pop (1931) 4528

Fleetwood Seaport, watering place and urban district of Lancashire It stands at the mouth of the River Wyre, 9 m from Blackpool, and is served by the L MS Rly There is a good harbour and large docks, the property of the LMS to from which steamers ply to the Isle of Man and elsewhere It is also a fishing centre and there is a fine promenade Pop (1931) 22,983

Fleming Marjorle Scottish child in mortalised by Sir Waltor Scott. She only lived for eight years, 1803 to 1811, but during that time she showed romarkable proceeding the time she showed romarkable process and dialries Sir Walter Scott saw her at the house of his aunt, Mrs. Keith of Buyelston and took a great interest in her. Ravelston, and took a great interest in her Dr John Brown in Horae Subscence wrote about her, and her life was written by H B Farnie It is called Pct Marjorie

Fleming Sir Sandford Canadian engineer He was born at Kirkealdy Fife shire, on Jan 7, 1827, and went to Canada as a youth He took an important part in the preliminary survey for a Canadian transcontinental railway, and later, in the estab lishment of a cable between Canada and Australia. He was largely responsible for the Australia He was larrely responsible for the introduction of unified time reckening, or standard time  $(\tau \tau)$ , throughout the world Died July 22, 1915

Flemings Name used for the in habitants of Flanders (q v) Many of them settled in England at various times especially in the eastern counties They brought with them the weaving industry, and there are evidences of their activities at Dedham and elsewhere in Essex and the adjacent counties In the 12th century Henry I settled some of them in Pembrokeshire and that

neighbourhood, but they were disliked and often attacked by the Welsh
To day Belgium is inhabited by Flomings, who speak Dutch and inhabit Flanders and other parts in the north west of the country, and Walloons who speak French and live in the south-cast

Flensburg Scaport of Germany It stands on Flensburg Flord in Slesvig, 23 m from the town of that name Founded in the 12th century, it has several buildings of historic interest. It is a flourishing port with a good harbour and its industries are

chiefly connected with shipping
Flensburg was Danish until 1864 when it
was taken by Prussla who kept it after a
plebiscite in 1919 Pop 70 000

Fletcher Word meaning a maker of arrows One of the London livery companies is called the Fletchers This was united with that of the bowyers or makers of bows The offices are at 4 Broad Street Place, London F C 2

Fletcher Glies and Phineas English Phineas, the elder portant work is The Purple Island (1633) a Spenserian allegory The poetry of Glies is religious in character His epic Christ's Victoric and Triumph (1610) influenced Milton Glies died in 1823 and Phineas in 1830. died in 1623 and Phineas in 1650

Fletcher John Figlish poet and drama Son of Roy Richard rletcher Bishop of London, he was born at Rve, in 1570, and was probably educated at Cambridge Being left without means he, in collaboration with Francis Beaumont, took to writing for the stage The Maid's Tragedy, Philaster, King and No King, and many others were produced under their joint authorship, whilst the pastoral drama, The Faithful Shepherdess, was the production of Fletcher alone He collaborated also with Massinger. Rowley and other dramatists and died of the plague in the summer of 1625 He is buried in the cathedral at Southwark

Fletton District of Northamptonshire Some part of it is within the city of Peterborough, but another forms the urban district of Old Fletton Pop (1931) 7480 The district is famed for its enormous brickfields from which the popular Fletton brick is obtained

Fleur-de-lis French royal symbol Presumedly representing a lily or white iris, it was called by Shakespeare the flower-de luce It is traceable in Egyptian, Etruscan, Roman and Indian ornament, and was adopted by Louis as the royal ensign of France about 1147, being represented in gold on arure, scattered over the shield The number arure, scattered over the shield The num of lilles was reduced to three about 1376 appeared on the arms of England in royal coats of arms from Edward I onwards, disappearing therefrom in 1801

Fleury and Hercule de French statesman Born at Lodève, June 22, 1653, he was appointed chaplain to Louis XIV and became Bishop of Frijus in 1698 He was appointed tutor to the bov who afterwards became Louis XV in 1715, and in 1726, at the age of 73, Fleury succeeded the Duke de Bourbon as Prime Minister, and soon after was appointed captiant. He died Jan 29, 1543 appointed cardinal He died Jan 29, 1743

Flight Navigation of the air Human flight flight, the study of which is termed aeronautics, is a development of modern times. The solution of the many problems of flight are dependent upon meteorology for knowledge of atmospheric conditions, engineering experience, the study of physics, and the effect of air upon fuel combustion. With Langley's carly studies of the flight of flat surfaces and Lilienthal's experiments with curved surfaces, gliders came into being, and the development of the internal combustion engine made possible the aeroplane and airship AFRONAUTICS, GLIDLE

Flight Lieutenant Officer of the Force He ranks above a flying officer or observer and below a squadron leader. The equivalent rink in the navy is lieutenant, and in the army captain

Flinders Matthew English sailor Born March 16, 1774, in Lincolnshire the son of a surgeon, he joined the navy in 1790 From 1795 99, he was in Australasian waters, where he carried out numerous explanations makes the control of the carried of the carried out numerous explanations makes the carried out numerous explanations and the carried out numerous explanations are carried out numerous explanations. plorations, made surveys, and circumnavigated Tasmania. Sent in 1801 in The Investigator to explore the Australian coast, he was wrecked on his voyage home, and falling into the hands of the French, was imprisoned by them for six years in Mauritius In 1810 he was released He died July 19, 1814, after publishing an

Carpentaria

Flint Crystalline mineral mainly of silica, the More opaque and less lustrous than chalcedony, it is dark grey or dark brown in colour, breaks with a shell-like fracture, and account in poddies to shell-like fracture. occurs in nodules, tabular masses and veins, in the chalk formations of Britain and W Europe Flint was employed for walls and buildings in mediaeval times and there is much flint in the old churches of the eastern counties England Because of its readiness of England Because of its readiness to pulverise, it is utilised in pottery and flint glass manufacture Fire making by striking flint with iron pyrites, an important neolithic discovery, was long used The artificial flaking of flints by sharp blows of hammer stones, which may have originated in Africa, led to the invention of flint implements, which during the Stone Age laid the foundations of human progress

Flint Borough and market town of Flintshire It stands on the estuary of the Dee, 12 m from Chester, on the L M S RIv Before the estuary was closed by sand it was an important seaport There are chemical works and other industries, and near are coal mines Here is the castle which was built by Edward I

refer to the close which was and is now public property. Flint was at one time the county town. Pop. (1931) 7635

Flint Lock Kind of firearm also known as firelock. It was in use in the 17th century and was fired by means of a mechanism in which a piece of flint was struck upon a steel face, producing a number of sparks A lighter form of flint lock was termed a fusil, hence the name fusilier applied to soldiers armed with this weapon. The use of flint locks continued until the middle of the 19th century, when they were superseded by the adoption of the percussion cap

Flintshire County of Wales In the main part lies between the estuary of the Dee main part hes between the country of partial and Denbighshire A small detached portion has between Denbighshire and England There lies between Denbighshire and England are hills in the county which only covers 255 sq m Coal and lead are mined. The rivers be and Clwvd flow through it and it is served by the L MS Rly Mold is the county town, other places are Rhyl, Flint, Holywell, Buckley and Connah's Quay Pop (1931) 112,849

Floating Debt Name given to that part of the national debt which is not funded or converted into consols, war loan, etc It consists of exchequer bonds, treasury bonds, savings certificates, etc

Flock Stuffing used for chairs, beds, and other articles It is usually material which is thrown off in the process of manufacturing woollen cloth, or is made by pulling woollen cloth to pieces By a law passed in 1911 flock must reach a certain standard of cleanliness or its manufacturers can be prosecuted

Also used for a herd of sheep, goats, geese or other animals and birds. A flock book is a book which records the pedigrees of pure bred sheep They are kept by the societies which exist to assist the breeding of the different kinds of sheep and fulfil a similar purpose to the stud books of the stables

on his voyage home, and falling into the hands of the French, was imprisoned by them for six years in Mauritius In 1810 he was released He died Iniv 19, 1814, after publishing an account of his voyages

A river in Queensland, 220 m long, is named after Flinders It falls into the Gulf of Carpentaria

Flodden One of the Cheviot Hills It is 3 the Till A battle was fought here between the English and the Scots Sept 9, 1513 After a fierce fight the English under the Earl of Surrey gained a great victory, Jumes IV and his bodyguard of nobles being among the Slaim Flodden was long regarded as the Slaim Flodden was long regarded. elain Flodden was long regarded as one of the most disastrous days in the history of and San Miniato Of the many palaces that Scotland It was the theme of much poetry. and Scott describes it in Marmion

Flood Inundation of low lying land Generally caused by an overflow of water from a river, it is due to excessive mountains In the case of great rivers such as the Mississippi Hoang ho and Nile floods have played an important part in modifying the surface features of the surrounding areas. As a result deltas and fertile flood plains have been formed and in some cases the river has made new channels and mouths. The great flood which is recorded in the Bible is usually called the deluge (q v )

Flood Lighting Lighting of the ex cenerally by powerful, concealed electric lights It was first introduced in New York where many largo buildings were filminated at night in this way in 1931 experiments in flood lighting were tried in England, notably on the Houses of Parliament and other buildings in London and the castle at Rochester Sept. 1931, there was a great display of flood lighting on London buildings in connection with the meeting of the International Humination Congress.

Floquet Charles Thomas French states man Born Oct 2, 1828 He was deputy for the Seine in the National Assembly of 1871, and in the same year was imprisoned for his Communistic sympathies In 1876 as a radical republican he entered the Chamber of Deputies and was President of the Chamber from 1885 to 1885. In 1888 89 he was Premier, during which time he fought a duel with Boulanger. In 1892, being involved in the Panama scandal, he resigned He died Jan 18 1896

Flora In Roman mythology a flower ber worship near the Circus Maximus in Rome, and an annual festival called Floralia lasting from 28th April to 1st May, was held in her honour

Flora Term used collectively for all the plant life of a given geographical region or peological period, or its enumeration it corresponds to fauna as designating the animal life

Florence City of Itnly It stands about the centre of the country, on both banks of the Arno 15 m. from the centre of itnly of the country, on the control of the country, on the control of the control o

buildings include the great Duomo or cathedral with its towering dome, in which Savonarola preached, and adjacent to it are the campanile by Glotto and the Baptistry with its wonderful bronze gates—In the church of San Lorenzo are Michelangelos statues of Day and Night. This church was the burial place of the Medicis Many sons of Florence lie in Santa Croce the

of the Medici is used for public purposes. In the Pitti and the Ufflzi palaces are two of the greatest collections of pictures in the world

Another collection is in the Academy Strozzi and the Corsini palaces may also be Florence contains four great mentioned libraries, each rich in books and manuscripts of immense value One is the national library and another, the Laurentian was once the library of the Medici

Other buildings that may be mentioned are the Palazzo Vecchio and the Bargello The hall of Dei Lanzi contains Benvenuto Cellonis in the monastery of S Mark, as Persons sociated with Savonarola are frescoes by sociated with Savonarola are freecoes by 1 m Angelica The Ponte Vecchio immortalised by Dante, still crosses the river and there are several modern bridges. There are remains of the old Roman city in the shape of an amphi theatre and baths. The university was founded in 1924

The walls of Florence have been pulled down and modern suburbs erected beyond the old ity There are some industries including shipping along the river but the city is chiefly Art students study here a centre of culture

and it is a centre for tourists HISTORY Florence was a I HISTORY Florence was a Roman city and later a town in the district called Tuscany As the citizens became rich by trading they began to rule over the people around them, and after 1250 Florence was an independent and powerful city. It was disturbed by the and after 1250 Florence was an mucependent and powerful city. It was disturbed by the struggle between the Guelphs and Ghibellines but after a time the former gained the upper hand. Great prosperity followed and soon Florence was ruling over most of Tuscany, whilst, by conquering Pisa in 1406, her traders were in possession of that scaport.

During these years the citizens of the republic had provided themselves with a con stitution, under which the city was governed, which lasted until the 15th century, when the rich family of the Medici (q v ) became masters of Florence Their wealth and influence helped them to maintain this position although there were continual risings against them and for some years they were in exile. The republic some years they were in exile The republic was restored in 1494 but in 1512 the vicilities returned and with Spanish help overthrew it. In 1569 Cosimo de' Medici made himself. Grand Duke of Tuscany, and Florence remained the capital of the grand duchy until 1860, when it was included in the Kingdom of Italy when it was included in the kingdom of Italy In 1737 the Medici family had become extinct and from then until 1860 i userny, with Florence, except for a short period during the Napoleonic Wars was a possession of Austria From 1865 71, Florence was made the capital of Italy It has a broadcasting station (500 8 M 20 kW) Pop (1931) J16 256

Florentium Another name for the rare clement more usually

called illinium (q r )

Name of two Islands One is in Flores the Azores, being the most the group Santa Cruz is the westerly of the group Santa Cruz is the capital Near here ir Plehard (renville, in the Recreme in 1591, fought his famous action with some Spanish ships Pop 8200

with some Spanish ships Pop 8200
The other Flores is in the Dutch East
Indies Situated south of Celekes, niday
between Java and Timor of which it is a
dependency, it occupies 8870 sq m. The city s mansoleum Other churches include the surface of this Island is hilly and there are Annunciation, San Spirito Santa Maria volcanic peals as bigh as 9000 ft Cotton Novella Santa Maria del Carmine, San Michele rubber and ponies are rai ed by the Malays on the coast and jungle produce by the inland The capital is Larantuka Pop Papuans 250,000

In botany, the small flowers forming the inflorescence of composite plants The florets are arranged upon a flattened or convex disc surrounded by an involuce of bracts, and may be all alike, as in the dandelion, or different in form and colour, as in the daisy

Florida the State of the United States In extreme  $\mathbf{S}\mathbf{E}$ οf country, it consists mainly of a peninsula, between the Atlantic Ocean and the Gulf of Mexico It covers 58,666 sq m and Tallahassee is the capital, although Jacksonville and Tampa are much larger Agriculture is the Agriculture is the chief industry, and rice, cotton, tobacco and tropical fruits are grown Much of the state tropical fruits are grown Much of the state is forest land and the timber reserves are waluable. There are also fisheries and along the extensive coastline are many watering places including Miami, the largest city in the In the south is the swampy remon the Everglades and the great lake state called Okechobee

Florida was discovered on May 27, 1513, by a Spanish seaman In 1763 it was handed over to Britain, but in 1781 was returned to Spain In 1819 it was bought by the United States, becoming a state in 1845. It is governed by a legislature of two houses and sends five representatives to the House of Re presentatives at Washington (1930)Pop

1,468,211, about a third of whom are negroes
Florida Strait separates Florida from Cuba
and the Bahamas, it is 300 m long Part of
the Gulf of Mexico is called Florida Bay. Part of Florida Keys are reefs off the south coast.

Florin Name of a silver coin It origi-nated in Florence, where a gold florin was struck in 1252 Other states coined florins, and in 1343 one was comed in England, this being a gold florin for 6s It was soon withdrawn In England the silver florin worth 2s. was introduced in 1849 and has since been in general use A double florin is occasionally In the Netherlands the silver florin has seon become the gulden

Flotilla Name, meaning little fleet, given to a group of destrovers or submarines under a single command. Other small warships are also organised in flotillas Destrovers in the British Navy are now grouped in flotillas of eight and the one which carries the captain, or commander, is called the flotilla leader

Flounder Small flatfish (pleuronectes It is also called the fluke It inhabits N European coasts from the British Channel to Iceland, dwelling in river waters and descending to the sea to breed. It rarely exceeds 12 in. in length and 14 lb in weight. In America, various larger flatfish are called flounders.

Flour Term denoting especially the ground contents of the wheat seed. Similar meals from other grasses and from non cereal meals from other grasses and from non-cereal plants usually hear qualifying or variant names, ep. cornflour, oatmeal and arrowroot. The wheat lernel, which is nine tenths of the seed, the remainder being blin and germ, consists of starchy matters (735 per cent), gluten and other proteins (11 per cent), fats and minerals (35 per cent) and water (12 per cent). Besides its use in breadmaking, flour is used in several industries, calico printing, etc.

Wheat was formerly ground by hand and later in a mill between great stones, operated by wind or water, hence the name flour miller. Steam power was first employed in 1784, and in 1837 iron rollers were introduced in the place of mill stones and it is now prepared in great roller mills. A bag of flour consists of 140 lb Sec WHEAT

Flower Part of a plant containing the reproductive organs. It is composed, in its most complete form, of four distinct whorls of modified leaves. (1) The outer whorl or calvx, which forms the unopened outer whort or carvx, which forms the unopened bud, consists of sepals, usually green (2) The corolla consists of petals, often coloured and sometimes forming a tube, their length, form and odour being adapted to assist insect fer-tilisation, sometimes, as in the croous, sepals and petals are alike, and together form a perfanth. (3) The stamens, which hear pollen grains, or male cells, in anthers, mounted on filaments (4) The pistils, in which evules, or female cells, in ovaries are surmounted by stigmas mounted on styles Sepals, petals or both are absent in some flowers, but stamens and pistils are essential to reproduction, although in some cases, eg, the willow, each plant bears flowers of one sex only

What is known as the language of flowers is the attribution of certain sentiments to certain flowers according to a pre-arranged code In the 19th century booklets expounding

these were popular in England.
Fluke Order of sucker-bearing parasitic worms, whose cysts resemble flukes or flounders The common or liver fluke, fasciola hepatica, passes its adult life in the livers of sheep, producing an incurable rot. The eggs, passing out in the dung, hatch into embryos which penetrate a freshwater small, limnaca truncalula. After further development they leave the small and attach them. ment, they leave the snall and attach themselves to grass, forming cysts which, when swallowed by sheep repeat the life history. Another fluke causes the human disease bilharziosis

Fluorine Gaseous element It occurs in the minerals fluorspar and cryolite, also in bone and the enamel of teeth. It is greenish in colour, and has a powerful action on all metals and most other substances Its principal compound is hydrofluoric acid. It was first isolated in 1886 — Its atomic weight is 19, atomic number 9 and symbol F

Fluorspar Mineral consisting of fluor-ine and calcium. It occurs in veins or lodes and is often associated with lead ore. It is either colourless, or vellow, blue, green or violet in colour and is used as a

flux, an etching agent, or for making cheap iewellery. In Derbyshire it is known as Blue-John and is used for ornaments.

Flushing Seaport and watering place of the Netherlands. It stands at the mouth of the Schelde, on the Island of Walcheren. Its chief importance is as a port for (preschange) services. There are shipfor cross-channel services. There are ship-building yards and in former days it was a sta-tion of the Dutch Navy Pop (1932) 21,755 Flute Musical wind instrument consisting of a cylindrical tube of metal or

wood Into this the player blows through a hole near the top Other holes, stopped by the fingers, or keys worked by the singers, Fluting in architecture the parallel channels or grooves on a column. They are separated from each other by fillets. In Greek architecture definite laws governed

On the | the number and depths of the fluting Dorio columns there were 20 shallow elliptical flutes and on the lonio the flutes were semi circular and 24 in number

Flux Metallurgical term for a substance which assists in the reduction of an ore to the metallic state. The flux is added to the charge of ore for the purpose of combining with the earthy matter present and forming a fusible compound, or slag The principal fluxes are carbonate of soda, which forms a slag with silica, borax which combines with lime and iron oxides, oxidising agents such as nitre and litharge and reducing agents such as charcoal

Fly Name widely used, with or without prefix, for the winged state of many insects of various orders. Apart from butterfiles, dragon files, may files and caddis files, they pertain mostly to the two winged order, Diplera, and include crane files, house flies, bot flies, mosquitos, tsetso flies, etc The mouth parts form a proboscle for pieroing and sucking Some flies are blood suckers, many others owe their troublesome character to their destructive magget stage in some the larvae are parasitio, in some aquatic Of widespread importance are the Hessian fly, forest fly, horse fly and window fly The cosmopolitan house fly, musca domestica, is a disease carrier, and because of its rapid breeding under insanitary conditions, a dangerous pest See DIPTERA

Flycatcher Large family of small in Sectivorous perching birds They pursue their prey on the wing, and abound in the tropical regions of the world The spotted fly-catcher, Muscicapa grisolo, is a summer visitant to Britain The pied, M atricapilla which arrives in spring is found in woods The paradise fly catchers of E Asia have brilliant plumage

Fly Fishing flors, usually artificial, are used as buit. These are made to look as are used as bait. These are made to look as much like a real fly as possible. They may be used in two ways. In dry fly fishing the fly floats on the surface of the water, in wet fly fishing it is immersed. The casting or throwing of the fly is important. Trout are usually fished with the fly. The Fly Fishers' Club is at 36 Piccadilly London W1.

Flying Boat Large scaplane having a boat shaped body which cives it huggary on the water and allords.

gives it buoyancy on the water and affords space for the pilot, passengers and cargo As in the ordinary seaplane its engine and air screw are placed high up on the boat. Flying boats are specially adapted for coast work and for long distances over seas The German Dornier "X" has 12 engines and carries 150 passengers, as well as a light cargo, and the American Glenn Martin clipper ship, built to provide the utmost comfort can attain a speed of 180 m.p h and cover 3000 miles without refuelling

In Great Britain the air ministry has several squadrons of flying boats, examples being the Southampton and the Iris The 1935 36 air programme maintains a strength of 8 squadrons

of flying boats

Flying Buttress Form of external buttress, charac teristic of Gothic architecture In form a half arch it was used to join the outer buttress with the wall of the nave, thus resisting the thrust of the central part of the roof, and was usually built in stages and finished with ninnacles.

Flying Corps Royal British organi which existed from 1912 to 1918 It was formed, when air warfare became a possibility, formed, when air warfare became a possibility, as a brench of the army In 1914 its strength was about 2000 men, but it expanded enor mously during the World War, when it took part in the fighting in all areas of military operations and, in co-operation with the navy, was responsible for the defence of Britain from air attacks In April, 1918, it became part of the Royal Air Force

Flying Dutchman Name given to a phantom ship It was said to haunt the southern coasts of Africa and sailors believed that seeing it meant Africa and sailors believed that eaching to be a doomed ship moving continuously over the seas as a punishment for acts of cruelty committed by the captain, Vanderdecken, and the crew Wagner wrote an opera on the subject, and Douglas Jerrold a play

Flying Fish genera of tropical and subtropical marine fishes The two genera include the flying herrings, Exocotius, and flying gurnards, Daciploplerus Their long pectoral fins, acting when distended as parachutes rather than as wings sustain them in the circumstant of the circum the air against the wind, sometimes for 500 ft They fly to escape the attacks of coryphenes and other produtory fishes

Flying Fox Popular name of a genus (Pleropus) Occupying the tropics of the old world, the largest is the Javanese kalong. world, the largest is the Javanese kalong, P edulis, which possesses a wing spread of 4 or 5 ft., others, in India and Queensland, inflict enormous damage to gardens They slumber head downward, clinging by thousands to a single tree

Flying Lemur See LEMOR

Flying Squid Widespread genus of trephes) They are especially common in the warmer seas of the world Long and tapering, they leap, by means of their large lateral fins they leap, by means of their large lateral fins high out of the water, sometimes falling on the decks of ships. The sea arrow (O sant latus), frequent in Scottish firths, is a common cod bait off Newfoundland, and an important food of sperm whales. The fish may be as much as 4 ft. in length

Flying Squirrel See Squimell.

Flywheel Large heavy wheel mounted on a shaft Its function is to equalise the motion of machinery in a single cylinder engine a fly wheel is mounted on the crank shaft so that its momentum assists the crank over the dead centres when the piston is at either end of its stroke, it also tends to give a more uniform motion Some fly wheels are of great size, up to 24 ft in diameter and 120 tons in weight

For use on motor vehicles a "fluid "flywheel has been invented. It consists of two main parts made of aluminium one of which forms the driving member and the other the driven member. With it a driver can start his car from rest and drive on the level, with or without traffic checks, without using the clutch pedal or the gear lever to bring the car to rest with the engine still running

Foch Ferdinand French soldier Born at Tarbes Oct. 2 1851, he was the son of a civil servant On the outbreak of war in

501

staff work. In 1894 he was appointed Professor of Military History at the Staff College, and there he made a reputation by his lectures, which have been translated into English as The Conduct of War and The Principles of War In 1901 he was given command of a regiment and in 1905 became chief of the staff of an army corps From 1907-11 he was head of the staff college (Ecole de Guerro), in 1911 he was selected to command a division and in 1912

an army corps When the Great War began Foch was in command of the 20th corps at Nancy and helped to defend that city until he was put at the head of the 9th army, which, under him, had a great share in the victory of the Marne (Sept, 1914) He then exercised general control over a group of armies and was prominent in directing the operations on the Somme in July, 1916 A little later, in Sept. being 65 years of age, he retired, but in May 1917 returned as chief of the staff to the new generalissimo Pétain In the following March, after the British disaster of that month, he was appointed generalissimo of all the arnics on the western front, French, British. American and Belgian In that British, American and Belgian In that capacity he controlled the movements of the final advance and received the German envoys when an armistice was requested In 1918 he was made a marshal and later in the year was declared to have "deserved well of his country "

Foch was a prominent figure in the negotiations for peace, but gradually he retired from public life He wrote a book on the war, published just before his death, March 20, 1929 He was buried in the Invalides and there are

memorials to him in several places

Fochabers Village of Morayshire It stands on the Spey, 8 m from Elgin, and is visited for the fishing and scenery around Near is Gordon Castle, the seat of the Duke of Richmond

Fog Atmospheric condition of low lying cloud or thick mist. It is due to the presence of dust particles around which is deposited a film of water when the temperature falls suddenly below dew point. These drops, in the absence of wind, may remain in sus pension for a long time and thus form the white fogs of the countryside and the dense black fogs of large towns where sooty particles pre-dominate. Over the sea a current of warm air passing over a cooler layer, or over ley waters, causes condensation to occur resulting in thick fogs, as off Newfoundland

Foggia City of Italy It is a railway a commercial and agricultural town The chief building is the oathedral Pop (1931) 57,232

Foghorn Apparatus for producing a loud noise as a warning at sea during a fog or as a signal on shore turns a log or as a signal on shore Many types are in use, from the simple mouth foghorn to those worked by hand or the powerful sirens worked by compressed air Coast fog signals vary much in character from reedhorns to large sirens installed on dangerous parts of the coast Salling vessels and those in tow are required to sound their foghorns at intervals of one minute during a for of one minute during a fog

Fonn Dry warm wind experienced in the castern Alps It blows down the mountain valleys, its warmth being due to the increasing pressure and consequent rise in

1870 he joined the army In 1878 he was made | temperature as it descends from a high altiaceptain of artillery and was soon engaged on | tude | As the snow rapidly melts when the Föhn is blowing, it is of great value to agri-

culture in these regions
For Thin sheet metal It is obtained by Foll Thin sneet mean 16 18 sepeci-rolling certain malleable metals, especi-culture conner and silver Tinfoil ally tin, aluminium, copper and silver may vary in thickness up to 1/100th of an inch and is used extensively as a wrapping material for tobacco, chocolates and foodstuffs, or as box linings and for electrical apparatus Aluminium foil is also used for wrapping, and tinsel, a tin or copper alloy, is employed by Jewellers Copper foil in varying thicknesses is used in repoussé and other metal work

The word is also the name given to a light sword used in fencing This has a guard on the hilt and a flexible four-sided steel blade, the point of which is protected by a button

Antoine Herman Gerard Dutch engineer Born at Kediri. POKKET engineer Born at Kediri, Dutch East Indies, April 6, 1890, he was educated at Haarlem, Holland, and at the age of 20 went to Germany, where he started his aeronautical career, becoming known as a ploneer of aviation He put up factories and built aeroplanes that were used by the German army in the Great War, after which he erected the Fokker Aircraft works in Holland and other factories in Madrid and New Jersey

Foleshill District of Warwickshire It is 3 m from Coventry, of which it is practically a suburb It is the centre of a rural district with a population of over 33,000

Folio Book of the largest size, comprising sheets of paper folded once If tolded again the sheets would become quarto, and so on The term designates also the numbered page of a book or manuscript Shakespeare's works were printed in folio volumes, hence the phrase, first folio In law writing a folio comprises 72 words, in parliamentary and chancery documents 90, in the USA 100

Folkestone Borough, seaport and watering place of Kent It stands on the English Channel, 71 m from London, with stations on the S Rly There is a large harbour for cross channel traffic and near it is the fish market

The new town has been built on the cliffs In front are the Leas, a fine promenade about 2 m long, along which are hotels and houses Indinor Park is an open space and near the town is the Warren, a large expanse of open land Races are held here regularly and an annual cricket festival is held in September A road of remembrance leading to the harbour forms the town's war memorial Much of the land belongs to the Earl of Radnor, whose eldest son is called Viscount Folkestone Pop (1931) 35,890

Folk-dancing Dancing uninfluenced by urban or professional tendencies The term has loosely become synonymous with country dancing. It may be classed under two heads (1) social, when it is danced purely as a pastime by all, (2) ceremonial, when performed by selected performers to mark a definite occasion

Folkland In early England land held from the king according to the custom of the folk or people Sometimes the king made grants of land in a book or charter and this was called booland At one time it was believed that folkland was common land, but scholars no longer hold this view Folklore Traditional learning of back ward people The term was invented in 1846 by W J Thoms to designate popular antiquities and in 1878 the Folklore Society was established in London. Folklore deals with the beliefs and customs, stories and songs, art and ritual, of early and uncultured people, and much work has been done in tracing their origins, resemblances and distribution. The most claborate work of this kind is The Goldon Bough of Sir James Frazer is The Golden Bough of Sir James Frazer

Folk-Song Wocal and instrumental music originating among the uncultured classes. It is usually based on local legends or incidents of common life and may compulse a simple melody in one or other of the diatonic modes. The English Folk-Song Society, founded in 1898, has recorded several thousand authentic folk songs

Folly In a particular sense a building erected for no definite purpose as Allen's Folly, also called Sham Castle, near Bath, built in 1760 by Ralph Allen

The Follies was the name taken by a group of burlesque actors, under H G Pelissier, who were very successful when they appeared in London between 1967 and 1912

Fomentation Application of warmth to the body a surface.
It has be employed to soothe pain or to hasten the formation of pus in localised inflammations For hot fomentations flannel, lint, and similar materials are wrung out in hot water and applied under protective waterproof coverings. medicaments, e.g., turpentine and laudanum may assist Dry formatations comprise warmed flannels or bags of warmed salt or bran.

Font Basin used in a church for the cere mony of baptism. It is constructed usually of stone or narble and is sometimes placed in a special part of the building. In the carly Christian churches it was in a separat, baptistry, octagonal or circular in form adjoining the basilica the font taking the form of a tank for mmersion. The earliest of these is the Bauthert of constanting in of these is the Baptistry of Constantine in Rome There are time Norman fonts in some of the old the renes of England

Fontainebleau Town and forest of Franco The town is 37 m from Paris and quite near the Seine There are some industries, but the interest of the place centres in the magnificent palace which was built by Francis I and improved and beautified by later kings. In it Napoleon abdicated in 1814 Externally it is a wonderful piece of architecture whilst internally are some magnificant apartments and priceless point. magnificent apartments and priceless paint ings type-tries and other works of art. The

gardens also are beautiful
The Forest of Fontainebleau, a popular pleasure resort, covers over 40,000 acres and is a region of great netural loveliness

Fontenoy Village of Beigium It is about 5 m. from Tournal and is famous for the battle fought here on May 11, 1745 The French under Marshal Saxe were attacked by a British force under canse were attacked by a letter force dider the Duke of Cumberland, who had also Hanoverian and Dutch soldlers in his army After a stubborn fight the British and their allies were forced to retreat, their square having been broken A brigade of Irish contributed much to the French success.

Fontevrault Town of France It is from Saumur and being part of Anjou, was long an English possession A great Benedictine abbey existed from 1100 to about 1800 In its church are the tembs of Henry II, Richard I and Matilda the wife of the one and the mother of the other These were only discovered when the edifice was being restored in 1910 Pop 2300

Fonthill Village of Wiltshire It is near Hindon and is known for its association with William Beckford Here, on the site of an abbey, he built a magnifecent house It was pulled down, but in the 19th century the 2nd Marquess of Westminster built another, which has now passed out of his family. his family

Foochow Port of China It stands on the River Min about 36 m from its mouth, and is a treaty port. On the Island of Nan tai is the Luropean quarter, which is reached by a bridge remarkable for its age and construction. The industries are ohich connected with shipping tor which there are extensive docks and there is a dockyard for the Chinese navy. The older part of the city is still surrounded by walls function by the capital of the province of Fusion. Pop (1931) 522 72.

Food That which nourishes the body of man and other members of the animal world leach animal, using the word to include all forms of animal life, e.g. birds, fish and insects has its own kind of food, much of it consisting of the bodies of animals weaker than itself

Man s food may be divided into two classes the flesh of animals and the produce of the soil Certain animals are eaten, whilst certain others are not, the reason for the distinction being not always clear although generally man does not can meat craing animals or birds

To day except for certain fruits nearly all the food eaten by man is cooked or prepared in some vay Artificial foods as they are called, have grown greatly in favour and some think modern society owes some of its ailments to this fact

The nature of man's food differs to a considerable extent according to the climate in general, those who live in cold latitudes require more food, especially that containing fat than do those in various regions

the fine to those in tarmer regions

The invention of refrigerators has enabled ment to be kept for long periods. Improved methods of treating the soil especially with artificial fertilizers and new strains of plants have increased output. Wheat a staple food in the west, can now be grown in regions afterto regarded as too cold for it and in other ways great additions have been made to the food requires actual and entertial of the food resources actual and potential of the world and have thus lessened the danger of famine

So far has this gone that, in 1931, an international conference was held with a view

international conference was held with a view to reducing the accreare under wheat and it is much the same with other primary foods. DIET The exentials of a proper diet are that it should provide for growth and the replacement of waste that it should furnish the heat and energy required by the body, and also a measure of stimulation to metabolism and to the functions of the alimentary true; Analysis shows that foods are made up of certain constituents, namely, proteins or nitrogenous substances, carbohydrates, fats, saits, vitamins and water vitamins and water

The proteins, of which white of egg and lean meat are examples, together with mir eral matter and water, make good the loss of the sue due to the wear and tear of living, they ilso go to the making of the secretions of the body. The daily amount of these waste in an adult person is not very great, and hard work makes no appreciable difference, because energy is derived from other kinds of foodstufts. A growing person, on the other hand, requires a liberal allowance of proteins. These substance are contained in flesh, fish and fowl and also in wheat and other vegetable foods, but those of animal origin have, in addition, a certain dynamic quality which explains the craving for animal food in cold climates and the lessenced inclination for it among dwellers in temperate climes during the hotter weather Another advantage of flesh foods is that they present their proteins in a concentrated and easily digested form.

FOOL

Proteins also furnish a certain amount of heat and energy, but the proper sources of most of our requirements of these are carbo hydrates and fats—If more protein is taken than is required for growth and repair, more energy will certainly be provided, but the body will be taxed to dispose of much that is not otherwise utilised, there will be an excess of ash, as it were, for the fuel consumed, whereas fats and curbohydrates produce no ash

The amount of heat, and incidentally of energy since heat and energy are convertible into one another, furnished to the body by fixed amounts of protein, fat and carbohydrate, can be estimated by chemical processes. The amount of heat is calculated according to a unit known as a caloric or, as is usual when dealing with foodstuffs, a large, or kilo-caloric (=1000 calories)

The mineral matter in foodstuffs include salts of iron, calcium, magnesium, sodium and potassium, which are necessary in tissue building or, in various wave, in the chemical processes which go on in the body lron is a necessary constituent of the red blood corpuscles for example, while sodium chloride is a constituent of blood, etc., and the source of hydrogalium chief in the source of hydrogalium chief in the source of

hydrochloric acid in the gastric inice
REGULATIONS AND CONTROL. In Great
Britain and other civilised countries steps are
taken to see that the food sold in the shops is
pure Laws were passed forbidding the sale of
diseased and unsound food, but with the great
increase in the sale of manufactured foods,
something more was necessary. Other laws,
therefore, by down that such foods as cream
and margarine must be of a certain standard
of purity. In other words, food must not be
mixed beyond certain prescribed percentages,
with something of inferior quality. A system
of marking has been ordered so that people
know what they are buying. These laws are
netively enforced in each county city or other
district by inspectors who have power to visit
shops and to take samples which are analysed
and, if found to be adulterated, their vendors
are prosecuted. In Great Britain the system of
marking foods has been used since the Great
War for quite another purpose, that of en-

couraging the sale of F mpire produce

The World War brought about a great shortage of food and in the beliegerent countries steps were taken to ration it In Germany and Austria the shortage was very acute and rationing was introduced early in the struggle In 1917 a system of food control was set up in Grant Britain The amount of certain essential foodstuffs, such as meat, sugar and butter was

The proteins, of which white of egg and lean eat are examples, together with mir eral card, without which these could not be bought that are not wear and tear of living, they also to the making of the secretions of the body had representatives in overv town. The office became the Ministry of Food and lasted until March, 1921. The shortage was most acute in appreciable difference, because energy is the action of German submarines.

In a modified way the control over food was soon renewed Complaints of high prices charged for food were so prevalent and the disparity between the price obtained by the producer and that charged to the consumer was so marked, that a food council was set up to investigate the reasons for what appeared to be abnormal rises in prices for foodstuits

FOO! In oiden days a jester, but now a person without sense. Kings and noblemen had fools at their courts who were expected to amuse them and their guests by their titels and sayings. The fool wore a special dress and carried a stick with a bladder at the end of it. There are many references to fools of this kind in literature, instances being Touchstone in Shukespeare's As You Lile It and the fool in Itanhoe. The keeping of fools died out in the 17th century. In the Middle Ages one of the recognised feasts was called the Feast of Fools

Foolscap like a cockscomb and decorated with bells, formerly worn by fools or jesters. The name is also used for folio paper, 13 by 17 in, sometimes slightly smaller, for which the old paper makers used a watermark of a fools cap and balls.

Foot That portion of the lower limb below the ankle joint. It contains 20 bones, 7 forming the tarsus, corresponding to the wrist, 5 the metatarsus, or sole of the foot, corresponding to the palm, and 14 are phalanges. The tarsus includes the calcaneum or heel bone and the astragalus, supporting the leg bone. The foot is arched between heel and metatarsus. Club foot is a deformity which prevents heel and toe from simultaneous contact with the ground Sec Flat Foot causes are corns,

FEET, SORE The causes are corns, bunions, blisters, in growing nails, falling arch, etc., all of which can be relieved by proper care and attention

Corns—horny growths occurring on the toes or soles of the feet—should be removed by the application of a plaster, or by soaking in hot water with bath salts or common washing soda, and then paring with a sharp instrument

Bumons (inflamed swelling of the bursh over the large joint of the big toe) may be relieved by applying hot fomentations Bunions are caused by wearing tight, pointed shoes, the inner side of the shoe should be straight allowing the big toe to lie in its natural position

Blisters should be punctured near the edge with a sharp, sterilised instrument such as a needle, and when the fluid has run out boracic continent or lint should be applied and the part covered with a dressing feet which blister easily may be hardened by adding methylated spirits to the water in which they are bathed

spirits to the water in v hich they are bathed In-growing Toe-nails should be treated by a chiropodist if they are bad, but slight tendency may be corrected by cutting the nails straight across, and then cutting a small v from the centre

Falling Arch, engendered by too much standing—a doctor must be consulted and a support worn inside the shoe:

All foot soreness and tiredness is relieved by frequent bathing in hot water with bath salts, resting with the feet up fresh stockings daily, the wearing of sensible shoes which fit the foot are not too heavy and have a good sole and moderate heel Boracle powder shaken inside the sock or stocking is found to be beneficial where much walking is necessary

Foot-and-Mouth Disease

Virulent infectious malady affecting domesticated animals—Its usual victims are cattle, cated animals cated animals Its usual victims are cattic, sheep, goats and pigs, but it is communicable to man Fever is accompanied by rapid spread of eruptions in mouth and feet, thick discharge from the lips, disturbance in ab dominal organs and milk supply and a greater or lesser degree of lameness It is introduced or lesser degree of lameness. It is introduced into Britain at intervals by imported animals, The Ministry of Agriculture has extensive powers in cases of this kind, and as soon as an outbreak, occurs all movement of animals in the affected area is forbidden. Sometimes they are slaughtered, in which case compensation is

are slaughtered, in many paid.

Football Popular ball game This old game was at first played by two teams of men, without any definite rules regulating the numbers engaged, the size of the ground or other matters Each side tried by sheer force to get the ball past its adver saries. This is the game still played once a stable played once at Ashbourne and elsewhere. The public the played to their own

In the 19th century the game was organised and rules drawn up Clubs came into existence and soon football was played in practically every boy's school in the land Of its two popular forms the first is the Association game. This is played with a round ball by eleven players on each side. These are goalkeeper, two backs three half backs and five forwards. Except by the goalkeeper the hands must not be used, the ball being only propelled by the feet or head Each match is decided by the feet or head Each match is decided by the number of goals scored, these being obtained by kicking the ball between the goal posts A game usually lasts for 90 minutes Association Football, or soccer, owes its name to the fact that in 1863 a Football Association was formed to draw up a set of

rules A challenge cup was presented for competition between the clubs in 1871 and since then the matches for the Association Cup have been amongst the most popular sporting events in the land There are also Scottish, Irish and Welsh Associations each of which offers a cup as do many other local associations. The Football Association at 22 Lancaster Gate, London, W, is the controlling authority in Lugland and acts in unison with the other associations in revising the rules.

The first players were all amateurs, mainly old boys from the public schools, but the popularity of the game spread to all classes and soon professionalism was introduced this being legalised in 1885. Then came the intro duction of the league system, now the mainstay of the game In 1888 a league was formed of the game In 1888 a league was formed and each club in it must play two matches in the senson with every other club therein Points were awarded and the championship of the learne became almost as great an honour league system as the holding of the Association Cup The Australia as the holding of the Association Cup The Australia great professional clubs such as Aston Villa, A fourt

Blackburn Rovers and Preston North End, were members of the original league and their matches every Saturday attracted vast crowds

The league system spread rapidly The first, or original, league was divided into divisions with a system by which a club could rise from one to another Leagues were founded all over the country and there are now scores of them in England, Scotland, Ireland and Wales The game is still played by amateurs and at one or two of the public schools, while the universities of Oxford and Cambridge meet in an annual encounter The Football Association offers a cup for amateur clubs and the best amateur players form the Corinthians

the best amateur players form the Corinthians
International matches are played between
the four home countries, the players are
usually professionals, but amateurs are not
barred There are also international matches
between amateurs and between the national
leagues The game is played in France,
Gormany, Belgium and other countries, and is
an event at the Olympic Games
The second form of the game Rugby Football. is a development of the original game as it leagues

ball, is a development of the original game as it was played at Rugby School In 1823 William Webb Ellis picked up the ball and ran with it, and in 1841 this was recognised in the rules Soon clubs were formed to play the game according to the Rugby rules The oldest of these is the Blackheath Club, formed in 1860 The English Rugby Union then came into existence and similar unions were formed in the other countries

year at Ashbourne and elsewhere The public schools each played it according to their own rules survivals being the wall and field games at Eton and the games at Winchester and In the 19th century the game was organised In the 19th century the game was organised and rules drawn up Clubs came into existence The other countries Rugby is the chief winter game at most of the public schools. It is also very popular in most parts of England, as well as in South Males and has been taken up in Scotland and Ireland. It has also spread to France and in New Zealand and South Africa is played with great Leenness It is strictly an amateur game

Rugby is played with 16 players a side Fight of these form the serimmage a survival of the original group of men striving to push the ball along as best they could The other seven are two half backs, four three quarter backs and one full back. The ball is oval in shape the striping of the series and must be kicked above the bar, not under it in order to score a goal which counts five points Three points are given for a try, which is gained by grounding the ball on the opponent's back line and entities the side gaining it to kick at the goal without inter ference

International matches are played between the four home countries and, until 1930 with France From time to time teams from South Africa and New Zealand come to Britain and Africa and New Zealand come to Britan and British teams go overseas A match is played each year between Oxford and Cambridge The rules are revised periodically by an international loard representing the four Rugby Unions The English Union has its head quarters and ground at Twicl enham the Scottish Union has a ground at Murrayfield, Edinburgh

A third form of football is the Northern nion game. This came into existence in Union game 1895 when the Rugby Union refused to allow professionalism Some Rugby clubs in Lanca shire and Verkshire then broke away, formed the Northern Union and began to play a slightly different kind of game. The number of players was reduced from 15 to 13 and other changes made for a more open and spectacular game The Northern Union has adopted the This game is much played in

A fourth kind of game is played in Ireland

505 FORD

In this there are 13 players a side and a round ball is used This, however, can be handled, but must not be carried A score is made if the ball is sent either over or under the bar of the goal posts

Foote tist Born at Truro in 1720, he was educated at Oxford and studied law, but soon abandoned this profession for the stage, making his debut at the Haymarket Theatre, London, in 1744 In 1747 he gave, at the same theatre, a series of entertainments which were very popular, in which he carleatured people of the day In all the many comedies that he wrote and in which he performed, carleature of some living person was an outstanding feature In 1766 he lost a leg and the Duke of Westminster, as compensation, permitted him to rebuild the Haymarket theatre He continued to act there until he sold the theatre ten months before his death on Oct 21, 1777

Footpath Narrow way for pedestrians footpath may be established by grant of the frecholder, or by user In the latter case, if the public have had uninterrupted use of the path for 20 years, a right of way is established, the law presuming an ancient grant to have been in existence before that time The owner of land who permits the public to use a path over it, but does not wish it to become a permanent right of way, can avoid it by closing the path once a year The Commons and Footpaths Preservation Society in London closely watches roported encroachments on public rights of way There is also a Peak District and Northern Counties Footpaths Preservation Society.

Forbes Town of New South Wales It and is the centre of a district wherein sheep are reared Pop (1931) 5120

Forbes Archibald Scottish war corresbee was educated at Aberdeen University and served in the Royal Dragoons During the Franco Prussian War he acted as correspondent of The Morning Advertiser and then of The Daily News He also saw service as a war correspondent in Spain during the Carlist wars in the Russo-Turkish war, in Afghanistan and in S Africa He wrote on his campaigns and also a volume, Memories and Sludies of War and Peace He died March 30, 1900

Forbes George William New Zealand 1868, he became a farmer In 1908 he was elected to the House of Representatives and in 1928 was made Minister of Lands and Agriculture under Sir Joseph Ward He acted as premier during Sir Joseph's illness and succeeded him in that office in May, 1930, becoming also Minister of Finance, and in 1931 Minister for Fyternal Affairs and Minister of Railways In 1930 he attended the Imperial Conference in London

For Des Joan Rosita English traveller and writer Born Jan 16, 1893, she travelled extensively in Africa and other countries In 1920 she was with the expedition to the Kufra Oasis in Libra In 1922 23 she visited Asir and went with a cinema expedition through Abvesinia in 1924-25 Her novels and books of travel and adventure include The Jettel in the Lotus, 1922; From Red Sea to Blue Nile, 1925, Adrenture, 1928, and Conflict, 1926, My Philosophy of Industry, 1929

1931 She married firstly, Col Ronald Forbes and, secondly, Col A T McGrath

Forbes Stanhope Alexander British art1857, he was educated at Dulwich and studied art. He won a reputation by his paintings of English rural life. "The Health of the Bride" is in the Tate Gallery, London. The "Fish Sale" and "Forging the Anchor" are two of many popular works. In 1892 he was elected A.R A and in 1910 R A.

Forbes-Robertson Sir Johnston Born in London, Jan 16, 1853, he was educated at the Charterhouse and Rouen and studied art at the Royal Academy Schools He made his first stage appearance in 1874 at the Princess's Theatre, London, where he appeared as Castelard in Mary, Queen of Scols, but he first achieved success in 1876 in Dan'l Druce In 1895 he plaved in Romeo and Juliet and increased his reputation by appearing in The Passing of the Third Floor Back, and The Light that Failed In 1913 he was knighted Forbes-Robertson married the actress Gertrude Elliott and wrote A Player under Three Reigns, 1925

Force Term in physics expressing that which produces or tends to produce motion, or a change of motion, in a body. Force is measured by the rate of change of momentum it produces, the unit of force being known as the dyne (qv) Work is the product of force

Forcing decelerating the growth of plants By this means many plants may be made to flower or fruit or produce stems and foliage out of their proper season forcing is dependent upon warmth and moisture Warmth may be obtained by embedding potted plants in pits illied with fermenting material or by keeping them in a forcing house In warm climates such as that of the Channel Islands, vegetables, fruit and flowers are forced under glass for the English market Torle Edward Onslow English sculptor

Ford Edward Onslow English sculptor Born at Islington, July 27, 1852, he studied at Antwerp and Münich and at an early age attracted attention with his busts and statues His group statuary is represented by the Gordon Memorial in London and the Shelley Memorial at Oxford, other works of his are the Gladstone statue in London, the Huxley statue in the National History Museum, London, and a number of portrait busts of well-known people, all showing great skill in modelling. He was elected A R.A. in 1888 and R A in 1895 He died in London, Dec 23, 1901

Pord Henry American manufacturer. Ford Henry American manufacturer. 30, 1863, he early became interested in mechanics and gained experience in engineering works at Detroit and elsewhere, experimenting meanwhile in motor car manufacture In 1903 he started the business that grew into the Ford Motor Co, and thus became the largest maker of motor cars in the world In 1914 he instituted a scheme of profit sharing. The Ford works are excellently organised, and to eliminate waste of every kind, Ford ownshis own iron and coal mines, timber forests, railways, etc Factories have been opened at Vanchester and Cork, and extensive works begun at Dagenham Ford is the author of My Life and Worl, 1922, To-day and To morrow, 1926, My Philosophy of Industry, 1929

Ford John English dramatist. Born in Devon, April 17, 1586, he studied at Oxford For many years he was occupied in writing for the stage In 1626 appeared 'Lis I dy she's a IVhore a powerful tragedy which was followed by The Brolen Heart and Loce's Sacrifice In 1634 he published Perlin Waber a historical drama He also wrote Warbal a historical drama He also wrote many plays in collaboration with Dekker and others His last play was The Lady's Trial, 1639 The date of his death is not known.

Fordingbridge Town of Hamp shire It stands on the River Avon 14 m. from Salisbury and 96 m from London by the 8 kly It has an agricultural trade and was once a market Pop 3100 tavn

Fordwich Village of Kent It is on the Stour, 2 m from Canter It is on bury and in the Middle Ages was an important port, being a member of the Cinque Port of sandwich It decayed owing to the closing of the channel of the Stour and for other reasons It was a corporate town until 1881 Pop 250

Forecastle Front part of a ship usually occupied by the crew It owes its name to the fact that the fighting ships of the Middle Ages had an election in front like a castle

Foreclosure Act of taking possession of mortgaged property when principal or interest is unpaid By tale over the house or land, if the interest is in arrears longer than a stated time. He can also foreclose if, the required notice having been given, the principal is not repaid. The right of foreclosure however, is limited to some extent by the Rent Restriction Acts

Foreign Legion Corps of the literature of the is recruited largely from foreigners, men who ish for some reason to hide their identity or to seek adventure. No questions are asked about their antecedents. The headquarters are at Sidi Rel-Abbes, in Oran and the Legion, which is officeted by Franchmen is quartered in various parts of Algeria. Trained very rigorously and cut off from European life, the men have won a great reputation as fighters and did good service in the Great War when battallons were brought to France

Foreign Office Department of the British Government Its head is a secretary of state and a member Its head is a secretary of state and a member of the cabinet, and it is responsible for all it must be distinguished from afforestation, business with foreign countries ambassadors and other representatives being under its which is the work of planting traces and the state of t and other representatives being under its control The office in its present form dates from 1782. The secretary is assisted by two under secretaries and a large staff. One of the under secretaries is a politician, the other a civil servant. The department of overseas trade is a department of the Lordge Office which has its headquarters in Downing Street London

Foreland Alternative name for a cape hown by this name are in kent The North Crast of Devon

Foreshore Part of the seashore be

water marks at ordinary tides. Its extent varies with the amount of slope and the tidal height Except when vested individually by grant, charter or prescription, the foreshore belongs to the crown, with public right of use for navigation or fishing A right of passage to the foreshore does not necessarily lie over adjacent land

Forest Word used originally for a tract of woodland wherein wild beasts ilived In Furope many of these were used by the kings for hunting and forest laws were present to prevent any interference with this sport. The history of England and France is full of references to the habit of the kings and nobles of hunting in the forests. Gradually the area under forest became less and less until to day, Lugland has very few forests, the largest being the New Forest. Franco, Germany and other countries have more, while Scotland has extensive trecless areas called deer forests. There are also vast forest areas in Canada India and other countries used for the growth of timber and mostly the fo ril In Furope many of these were used by used for the growth of timber and mostly the property of the state. The men who look after the forests are called foresters rangers or verderers See AFFORLETATION
The Ancient Order of Foresters is the name of

one of the largest of the friendly societies. Its endquarters are 17 Russell Square, London, W C.I

Forestalling Former equivalent of the modern profiteering (q v) It is the act of buying any merchandise or provisions on the way to market or before market hours, or dissuading persons from bringing them to that market or of doing anything to enhance the price. This interference with public trade for personal profit was, until 1844, a statutory offence

Forest Gate District of London. To in the boroughs of East Ham and West Ham. It is an industrial centre on the LNE Rly. 6 m from the city

Forest Hill District of London To the S.E of the city, it is in the lorough of Londsham 6 m from London Bridge on the S Riy Here is the Horning Nucuum Horniman Museum

Forest Row Village of Sugger It is from El at Grinstend. on the S Rly It is near Ashdown Forest hence its name Pop 3300

which is the work of planting trees on un-forceted land. With the enormous and in creasing demands upon the world's timber supplies the conservation of forests has become matter of first importance and many countries have set up departments to deal with

In Great Britain there is a forestry com-mission set up in 1919 but its duties are mainly concerned with afforestation. It controls the crown woods and its headquarters are at 22 Grosvenor Gardens. London 5 W known by this name are in kent. The forth the foreland is about 3 m from Margato and the South Foreland about the same distance from Dover. Both are formations of chalk and on each is a lighthouse. Foreland Point, also with a lighthouse is near Lynton, on the north lighthouse is near Lynton lighthouse is near Lynton lighthouse is near Lynton lighthouse lightham lighthouse lighthouse lighthouse lighthouse lighthouse lightho for the forest services in India and other parts of the Empire India has an important forestry 507

department, controlling some 250,000 sq m of forest, so also have Canada and many other

countries

During the Great War a forestry corps, recruited mainly from Canada, did good work in providing timber for military operations. The Women's Forestry Service was also established for the same purpose

Forestry Commission

Department of the British Government Its duties are primarily to manage existing state-owned forest lands, to promote reafforestation and to supervise the timber production and supply in Great Britain In 1932 the Commission had acquired over 724,000 acres of land, including former crown woods, and had planted over 185,000 acres of land, over 185,000 acres of land over 185,000 acres of land over 185,000 acres of lands. planted over 185,000 acres The commissioners are appointed every five years

Forfar Burgh and county town of Angus, formerly called Forfarshire It is 14 m from Dundee, on the LMS Riv, and is a railway function. There are some manu Scotland had a castle Pop (1931) 9660

Forfarshire Scottish county of Angus Pormer name of the (qv)

Forfeiture Loss of lands or other pro-offence equinst the law In Great Britain, until 1803, it was the law that any person convicted of treason or felony forfeited his property to the crown. The history of the country until after the Jacobite rising of 1745 is full of instances of nobles and others who forfeited their lands.

To day rersons convicted of bringing goods into the country without paying duty on them are sometimes sentenced, in addition to the fine, to the loss or forfeiture of the goods Leases can be forfeited if the tenant fails to carry out his undertakings, but courts of law

do not allow this on trivial grounds

Forgery In English law a serious crime document or material alteration therein, without authority also counterfolding a seal or die The forging of documents, such as wills, deeds or bank notes is a felony and can be punished by 1x ral servitude for life. The forgery of documents of less importance does not come within the category of a felony, but is a mis demeanour for which the maximum penalty is

imprisonment for two years
Forget-Me-Not Various annual or
perennial herbs, (myosotis) Notive to temperate regions, the best known, the common M. swrpindes, has rather stout, ilexible stems, and sky-blue flowers. The wood forget-me-not. M. sylvatica, has bright blue flowers the Alpine sub species is a dwarf Ornamental garden varieties and exotic species from the Azores and elsewhere

are very popular

Forging Art of shaping metal It is an

disinfectant, an antisoptic, and renders gelatine insoluble in water In recent years formalde-hyde has become of great importance in the manufacture of synthetic resins and plastic substances

Formalin Trade name for a 40 per cent solution in water of the organic gaseous compound known as formaldehyde This is prepared by passing a mixture of methyl alcohol and air over heated platinum as a catalyst It has a peculiar pungent odour and is used as a disinfectant and deodoriser, also as a hardening agent for photographic films

Formby Urban district, market town and seaside resort of Lancashire It is 7 m from Southport, on the LMS Rly

Formic Acid Simplest of the fatty acids. It has the has First chemical formula H COOH obtained from ants by distillation with water, it is now obtained by the distillation of sodium formate with a mineral acid It has a pungent odour and a blistering effect upon the skin. It is used in dyeing and other technical processes

Formosa, or Taiwan Island in the Pacific Ocean It lies off the coast of China, from which it is separated by the Strait of Formosa For long Formosa, the beautiful island, as the early European seamen called it, was a Chinese possession, it was ceded to Japan in 1895. It is 240 m long and covers 13,890 sq. m. The eastern part is mountainous and very little cultivated the western part is a plain where rice, sugar, tea and other products are grown in abundance The fisheries also are grown in abundance The fisheries also are valuable The island possesses vast supplies of timber, gold, silver, copper and other minerals are mined and camphor is produced as a State monopoly Taihoku is the capital Keelung Keelung is the chief seaport and other towns are Tainan, Taichu and Kurun Roads, railway telephones, etc are being developed by the Japanese on modern lines, and a university was opened in 1928

Savage tribes of Malay origin live in the east of the island. Chinese and Japanese have settled in the west Pop (1930) 4,592,537

Burgh and market town of Moray-Forres shire It stands on the Findhorn, 12 m from Ligin and 5 from the Morav Firth There are a few manufactures and near are the Cluny Hills and some very beautiful scenery Pop (1931) 4169

Forster Baron English politician.
Jan 31, 1866 and educated at Eton and New College, Oxford He played cricket for his university and in 1892 entered Parliament as Unionst MP for the Sevensals division He was a Lord of the Treasury, 1902 05, and Financial Secretary to the Treasury in 1917 In 1919 he was made a peer and from 1920-25 was Governor-General of Australia Lord Lord Forster is one of the largest landowners in the London area

practised on iron and steel v hich is heated until plastic, when it can be joined (welded), evered, bont or shaped by hanmering with hand or power hammers, with or without shaped moulds

Formaldehyde Simplest of the aldedation products of alcohols The gas formic aldehyde (H COII) is produced by passing methyl alcohol vapour over heated platinum A 40 per cent solution in water (formalin) is a

Chief Secretary for Ireland in 1880, but resigned in 1882 He died April 6, 1886, having declared his opposition to Gladstone's scheme for home

rule for Ireland
Seaport of Brazil It stands
Fortaleza near the mouth of the River
There is a rule for Ireland Ccara, 350 m from Pernambuco There is a harbour, but it is small and cargoes are landed nurrour, Dut It is small and cargoes are landed by means of surf boats from vessels that lie in the roadstead The trade is chiefly in rubber and other products of the country Pop 98,848

Fort Augustus shire It stands on Loch Ness on the Caledonian Canal, 34 m from Inverness on the LNE Rly It is a tourist centre The fort was built in 1716 and was named after Augustus Dule of Cumbashard centre the lore was built in 1710 and was named after Augustus, Duke of Cumberland, who retook it from the Jacobites Pop 1030

Fort de France port of Martinique
It is on the west of the island and has a large it is on the west of the island and has a large harbour. There is a considerable trade in the produce of the island. Its old name was Fort Royal. Pop. 43,300

Fort Duquesne the site of Pitts the site of Pitts burg It stood where the Monongahela River fulls into the Allegheny, and was begun by fulls into the Allegheny, and was begun by fulls into the Allegheny, and was begun by the English in 1754. The French took it and the English is settlers, added by troops from the English settlers, added by troops from home, tried to retake it, but failed on two home, tried to retake it, whereapon the occasions and abandoned it, whereapon the English built a new one on the same spot this was named Fort Pitt and grew into the city of Pittsburg (7 v)

Fortescue Earl English title borne family of Fortesque It has long possessed land in Devon and in 1721 city of Pittsburg (qv) It has long pussessed mind in Doyon and in 1721 Sir Hugh Fortescue was made Earl of Clinton The title became extinct in 1751 and in 1789 his nephew and heir was made Earl Fortesque

his nephew and heir was made Earl Fortesque
The earls estates are in Devonshire, and his
eldest son is called Viscount Ebrington
Sir John William Fortescue, a younger son
of the 3rd carl is the author of the monumental
History of the Brilish Army and other books on
military history. In 1933, he published an History of the Bruish Army and other books on military history In 1933 he published an autobiography, Author and Curator For a time he was librarian at Windsor Castle He died in

Fort Garry Early name of the city of 1835 the Hudson Bay Co built a fort on the Red River and around this a settlement grew and around this a settlement grew A gate at the name was changed to Winnipeg A gate at the name was changed to Winnipeg at the fortifine end of Broadway is the sole relie of the fortifine end of Broadway is the sole relie of the fortifine end of Broadway is the sole relie of the fortifine end of Broadway is the sole relie of the fortifine end of Broadway is the sole relie of the fortifine end of Broadway is the sole relie of the fortifine end of Broadway is the sole relie of the fortifine end of Broadway is the sole relie of the fortifine end of Broadway is the sole relie of the fortifine end of Broadway is the sole relie of the fortifine end of Broadway is the sole relief. the end of Broadway is the sole relic of the fort.

Fort George It is on the Moray Firth, I move used by the Moray Firth flow used by the Moray Firth flow used by the Senforth Highlanders. A now used by the Senforth from here for crosses the Moray Firth from here and support the Senforth of Senforth Transfer and estuary of Senfand

FORTRESS connected with the Clyde by the Forth and Clyde Canal The waterway is controlled by a

The Forth Bridge carries the LNE Rly line from South Queensferry in East Lothian to line from South Queensferry in East Lothlan to North Queensferry in Fife, and thus saves a long Morth Queensferry in Fife, and thus saves a long determined one of the finest bridges in the world, it is nearly 11 m long and is built on the cantilever principle with four spans. It is cantilever principle with four spans I to cantile the water. The bridge was opened 150 ft above the water. The bridge was opened for traffic in 1890 and cost about £3,000,000 for traffic in 1890 and cost about £3,000,000 and every road bridge across the korth at kin A new road bridge across the korth at kin cardine was alded by a government grant and started in 1934 started in 1934

Fortification Art and practice of position against an enemy Larthworks and nalisades were among the earliest forms. Later stone was used, and walls and citadels were built as fortifications. A notable instance is the Roman wall between the Tyne and the towar. The main fortifications of the Middle dolvar. Bolway The main fortifications of the Middle Ages were the walls which surrounded every town of importance, but the invention of gun powder destroyed the utility of these

The next stage in the history of fortification The next stage in the history of fortification was the erection of carthworks and other was the erection of carthworks and other fended by men and guns, and usually formed a formidable obstacle to the enemy. Such were formidable obstacle to the enemy. Such was the works of Torres Vedras erected in Portugal by Wellington. In the 19th contury fortification, wellington. the works of Torres Vedras erected in Portugal by Wellington In the 19th century fortifications took the form of protecting vulnerable cities by a ring of detached and hidden forts, of the comple anotable example. The oxperience of the Great War, however, showed that these were almost useless against modern artiflary.

archiery archief fortification still has its uses although mobile fortresses are of very little value in model to the control of the control modern warfare Positions protected by barbed modern warfare Positions protected by barbed wire, machine gun pits and other devices, such as those adopted during the Great War along the Western Front, proved very difficult indeed to overcome, even with the aid of all the resources of modern artillery Const defences are still powerful fortifications and, as was shown in the Dardanelles and on the Belgian coast they are still able to keep the battleship coast they are still able to keep the battleship and its attendant craft at bay

Fortress protected by walls or defences of other kinds. From very early times fortresses have been a feature in warfare although at first perhaps, their protections were little more than perhaps, their protections were little more than a fonce of wood, or a mound of earth Stone fortresses soon came into existence and the Greeks appear to have had such in the of Homer, as Troy was evidently a very strong fortress The Roman fortresses took the form of protected camps, such as were on the Roman wall in England

Roman wall in England
The mediacyal castic with its keep and other
features was the fortress of the Middle Ages,
features was the word was also used for walled
although the word was also used for walled
to the word was also used for walled
to the word was also used for walled
to the word was also were gradually built to the word was also were gradually built to the word was also that their companies. now used by the Schiorth Highlanders. A leasures the Moray Firth from here The Yerry crosses the Moray Firth from here The River and estuary of Scotland flows FOrth river rises in Perthshire and flows for about 53 m to Alloa where the firth or banks and its tributaries include the Teith, estuary is said to begin Stirling stands on the Devon and Allan Water It is narvigable by banks and its tributaries include the Forth semal vessels to Stirling are which are the Links of Forth semal vessels to are called the North Sca at windings which are called to the North Sca at windings which are and long to the North Sca at windings which are called to the North Sca at windings which are the Links of the North Sca at windings which are called to the Total House of the Water Tite. The word was also used for walled to the word was also used for walled towns that the word was also used for walled towns that the word was also used for walled towns the towns more that the word was also used for walled towns. These word was also used for walled towns fries to a mountain passens. The state of the word was also used for walled

and hidden guns Such were Metz and Antwerp, but in the Franco German War and still more in the Great War, these failed to fulfil the expectations of their builders. The experiences of the struggle showed that the value of the fortress in modern warfare is very slight indeed

Fortrose Burgh and scaport of Ross the Moray Firth, 8 m from Inverness on the LMS Rly It has a good harbour and attractions for visitors. At one time it had a cathedral, of which there are some slight remains. Pop (1931) 875

Fort St. David in Madras. It stood

on the Coromandel Coast, a little south of Pondicherry, and remains of it may still be seen The land was bought by the English in 1690, and here the East India Co had a fort until it was taken by the French in 1758 The French destroyed it, but the territory was given back to Britain in 1785

Fort Sumter Fort in the American state of S. Carolina It is on an island that protects the harbour of Charleston and is famous because its bombardment by the Southerners on April 12, 1861, opened the American Civil War It fell on the following day

Fortuna In Roman mythology, the god-from the second luck or chance the second luck or chance she was especially worshipped at Præneste and Antium and there were several temples erected in her honour in Rome

Fortunatus Character found in the folk lore of many countries Fortunatus of Famagusta in Cyprus received from the goddess of fortune an inexhaustible purse and later stole a magic hat which transformed him at will The carliest German text appeared at Augsburg in 1509 Hans Sachs dramatised it in 1553 and Dekker published a Hans Sachs version in England in 1600

Fortune Telling Professed dis-rational methods of future events in the life of another As one of the aims of divination, traccable in ancient Mesopotamian records, and was brought from Asia into mediacyal Europe by gipsies, who practised it under society patronage in England in the 17th century The Witcheraft Act, 1753, punished it with a year s imprisonment and the pillory, the Vagrancy Act, 1824, directs the imprisonment as rogues and vagabonds of persons pretending to tell fortunes It is still practised by gipsies and others, often for charitable purposes, but is none the less illegal

Fort William Burgh, market town and pleasure resort of Inverness-shire It is 65 m from Inverness, on the LNE Rly, and stands on the banks of Loch Eil It owes its importance to its position at the foot of Bon Nevis It was built in 1655, and was held against the Jacobites in 1715 and 1716 Near are the works of the British Aluminium Co Pop (1931) 2527

Fort William City and lake port of Ontario, Canada. It stands on Lake Superior, just where the Kaministiquia River falls into it, its position making it a prosperous place. It is 420 m from Winnipeg. on the CPR and C.N.R. A milway goes to Port Arthur, 4 m away. The chief industry is the handling of the grain which is shipped here to be conveyed to Europe.

For this there are docks, large elevators and other accommodation

Fort William was founded in 1801 by the Hudson Bay Co as a trading post Pop 26,277

Forum In Roman times any open place devoted to public business It was the official centre of a city's public and corporate life, and was usually surrounded by its chief public buildings and often ornamented with statues and other works of art Justice was administered in it or in buildings opening thereon, it was the people's normal place of assembly Rome had several of these, the most notable being the Forum Romanum and the Forum of Trajan

The Forum is the name of an influential review published in New York

Fosdick Henry Emerson American preacher and writer He was born on May 24, 1878, and became the pastor of Park Avenue Baptist Church, New York His Manhood of the Master (1913) is said to have had the largest sale of any modern religious book

Fosse Way Name of one of the great highways of England in Anglo-Saxon times It was at first a Roman road and went from Axminster to Lincoln, passing by Bath, Circnester Leicester and Newark It is 180 m, long and much of it is still used

Fossil Traces of plants or animals in the earth's crust, where they have been embedded by geological agencies. The study of them is known as paheontology The dating of strata by fossils found therein is funda-mental in geological research. The effect of time may be to alter the form or chemical constitution of buried organisms by processes constitution of buried organisms by processes called petrifaction. Thus, molluscan shells may be preserved unchanged, may be converted into silica, or may disappear, leaving only an external or internal cast. Rocks may perpetuate traces of footprints and even min drops Fossil flour is infusorial earth Fossil Ivory comprises tusks of extinct mammoths extracted from frozen Siberian steppes

Foster Sir George Eulas Canadian states-man Born in New Brunswick, Sept. 3, 1847 he was educated there and at Edinburgh and Heidelberg He became a professor in New Brunswick, and in 1882 was elected to the Dominion House of Commons In 1885 he was appointed Minister of Marine and Fisherles, from 1888 to 1896 he was Minister of Finance, and from 1911 to 1921 Minister of Trado and Commerce In 1914 he was knichted, and in 1919 represented Canada at the Peace Conference in Paris Later he represented his country at the meetings of the He died Jan 4, 1931 League of Nations

Foster Myles Birkett. English artist He was born at North Shields, Feb 4, 1825, and was one of the last of the topographical artists of the early Victorian period His carlier work was in black and white, being illustrations for books, but later he executed many water colour paintings of continental and English landscapes which gained him great

Fotheringhay Village of Northamptonshire It is on the hore for many years 600 or 700 foundlings Nene, I m from Oundle It is famous because in the castle here Mary, Queen of Scote, was Reigate, pending the erection of a permanent in the castle hero Mary, Queen of Scots, was tried and executed The building, once a royal residence, has disappeared

Foucault Jean Bernard Léon French scientist Born Sopt. 18, 1818, 1818, He devoted much time to the study of physical phenomena and invented several instruments, provinces and invented several instruments. including a polariser His famous pendulum, 200 ft long, was hung from the Pantheon in Paris, where it was used to prove the rotation of the earth He died in Paris, Feb 11, 1868

Fouché Joseph French statesman and Duke of Otranto He was born at Nantes on Muv 21, 1763 and became minister of the police under Napoleon Dis tinguished for his tact, foresight, leadership and shrewdness he served his country well at a difficult time. He died in exile at Trieste on difficult time Dec 25, 1820

Foundation Primarily the basis of foundation is on rock, as in New York, where the rock will stand any conceivable weight Many bridges rest on rock well below the water In this case caissons filled with masonry or cement are sunk on to the rock Gravel is a good foundation In other cases an excellent foundation can be made by driving piles into the soft ground Adelaide House, London Bridge, stands on piles in this manner

Foundation is also used for a college, school or other society, which has been founded for educational, religious or charitable purposes The colleges at Oxford and Cambridge, and the public schools are foundations of this kind Cathedrals and almshouses are also foundations In all the conditions of the foundation are laid down by charter, or will, or some other docu-ment. For instance, a college may consist of a master, ten follows and 30 scholars. These are on the foundation, but other members of the college are not. The person responsible for the foundation is known as the founder, an example being William of Wykeham at Winchester College

Sometimes when a limited liability company is formed, certain shares are reserved for the founders. These are called founders shares and usually only share in the profits after something has been paid to the other classes of shareholders.

Founding Art of making metal cast allows for the shrinkage accompanying the cooling of the metal, is supplied to the founder who prepares from it the mould "in special mixtures of sand and clay inserting 'cores" where required to produce holes in the casting Molten metal is then run in, forming the casting when cold Modern developments include centrifugal casting for metal pipes

Foundling Name used for a deserted an illegitimate one in Greece and Rome foundlings were cared for by the State, but in more uncivilised countries no heed was taken of them. The Chiefter Church seen turned its them The Christian Church soon turned its attention to them, and about 800 a foundling hospital was opened at Milan Many others were set up in the European cities and the Order of the Holy Ghost was established to care for foundlings

The Foundling Hospital in London was founded by Thomas Coram in 1739 In 1751

hone for the foundlings on an estate near Berkhampstead A fund was raised to preserve the site in Guilford Street as a public recreation ground, and in 1932 the required sum was obtained, largely through the generosity of Viscount Rothermore

Foundry Building where the casting or tounding of metals is carried on. The art of casting reached a high stage of development among many of the ancient nations. The furnaces in use range from small gas furnaces to large blast and electric furnaces and different forms of moulds are used for solid and hollow castings

Fountain Construction for the supply of Fountain water. The use of artificial fountains in conjunction with aqueducts for the water supply of towns and cities was fully understood by the Romans. The ornamental type of fountain dates from the Renaissance period and fine examples exist in many cities such as Rome, Paris and Versailles. At the present time public drinking fountains are in use in most towns.

use in most towns

Fountains Abbey Ruined abbey in 3 m from Ripon near the River Skell in the grounds of Studler Royal The ruins, perhaps the most beautiful in England include parts of the church, chapter house and cloisters, as well as remains of other apartments. The abboy was a Cistorcian house founded about 1130 Near is Fountains Hall, a fine house built early in is l'ouncarathe the 17th century Nicolas

Fouquet Nicolas French politician Born in Paris in 1615, he entered the public service at an early age, and in 1650 was made Procumtor General In 1653 he was made Superintendent of the National Finances and in that position amassed great wealth which he spent in regal style. This lasted until 1661 when he was arrested and tried. The sentence was impropounant for life, and he was still a captive at Pignerol when he

died March 23, 1630

FOUT1ET François Marie Charles French
Fout11ET socialist. Born at Besançon,
April 7, 1772, he lost his money in business and served for about two years in the army Afterwards most of his time was passed in putting forward the new social system on which his fame rest In 1808 he published The Iheory of Four Movements in 1832, The Association of Domestic Agriculture, and in 1829, The New Industrial World, this being a rough translation of the French titles He found a tew followers, but their attempt to found a colony according to his ideas was a complete falluro One or two,

to his ideas was a complete failure. One or two, however, were established on similar lines in the United States. He died Oct. 8—1837.

Fourier taught that an entirely now social order was necessary. Men and women must be allowed to live as they like, free from the trammels imposed by civilisation. One of them, marriage, should be aboushed. He proposed life in communities or phlanges of 1500 or 1800 persons each housed in a communal building surrounded by a large tract of land. Each man surrounded by a large tract of land Each man would work us far as possible at what he liked, with constant change of occupation and be assured of a minimum wage the rest of the communal income being divided in fixed portions to labour, capital and talent.

Fourteen Points of Allied war aims

presented by President Wilson (qv) to Congress on Jan 8, 1918 The points were (1) open covenants of peace without secret diplomacy, (2) freedom of navigation outside territorial waters, (3) removal of economic barriers, (4) reduction of armaments, (5) impartial adjustment of all colonial chims; (6)-(13) dealt respectively with Russia, Belgium, Alsace-Lorraine, Italy, Austria-Hungary, Ballan, States the Ottoman Empire and Poland (14) a general association of nations (the League of Nations) to be formed under specific covenants

Fourth Dimension a hypothetical extension over and above the three-dimensional world of length, breadth and thickness in our normal experience. Just as the geometrical forms of lines, planes and solids are expressible algebraically by a, a and a respectively, so a four dimensional world is expressible by a talthough fourth-dimensional relations are mathematically soluble, the notion of a supersolid state is outside our comprehension Linstein's theory of relativity studies three dimensional space in relation to time as a fourth dimension

Fourth Estate Term used for the Press Constitution ally there are in Great Britain three estates of the realm, Lords Spiritual, Lords Temporal and Commons. The phrase, Fourth Estate is believed to have originated with Burke, and is of course, a reference to the power of the Press in the State

FOWEY Market town and watering place cstuary of the Fower River, 10 m from Bodmin and 265 from London, on the G W Rly There is a good harbour, a little shipping and some fishing China clay is the chief export The town is the Trov Town of Sir A. Quiller-Couch's novels Place House is a 15th century mansion and there are runs of a castle Pop (1931) 2382

FOX Animal of the canine family of the genus vulpes The common V alopex averages 4 ft in length, including the tail is 14 in high, weighs from 15 to 22 lb and is reddish-brown in colour with white-tipped hairs roves differ from dogs in some of the skull bones and in having oval pupils to their eves The female is known as a vixen and the young as cubs

The North American silver or black fox yields a silver tipped, black fur and is sometimes raised on fox farms. The Arctic fox,  $\Gamma$  lagopus, brownish with whitish under parts in summer, is entirely white in winter or may be slaty blue throughout the year, with a thicker winter coat. These furs also are esteemed. The fennee is an African species.

Fox Strait off the north coast of N America It divides Bathn Island from Melville Peninsula, and is connected by other arms of the sea with both the Atlantic and the Arctic Oceans To the south is Fox basin which connects it with Hudson Strait and between the two is the projection of Baffin Island called Fox Land The strait is named after a saflor Luke Fox, who explored these regions early in the 17th century

Two rivers in Wisconsin U.S.A., are named the Fox, and Fox Islands is enother name for the Aleutian Islands.

FOX Charles James English statesman. The vounger son of Henry Fox, Baron Holland, he was born in London Jan 1, 1749, and was educated at Eton and Orford.

In 1769, after a brilliant scholastic career and much travel, he was chosen MP. for Midhurst, which he represented until 1780, when he was elected for Westminster After filling minor positions in the ministry of Lord North, he joined the Whizs, and became the most powerful advocate of all liberal causes He wanted parliamentary reform, liberty for Roman Catholics, freedom for the American colonies and the removal of Ireland's disabilities. In 1789 he went beyond most of his associates when he greeted the 'all of the Bastille with welcoming and memorable words, and in spate of its excesses, he remained a firm supporter of the Revolution. This led, in 1791, to the rupture of his long friendship with Burke, but irrespective of this he retained his regard for the great Inshman to the end Fov's political life was mainly spent in

For's political life was mainly spent in opposition to the government but in 1782 he was Secretary of State for a few months and in 1783-84 he helped Lord North to form a coalition. On this occasion again being Secretary of State, he prepared a bill for the reform of the government of India, but this was rejected. In 1792 his followers being very few he ceased to attend the sittings of parliament be returned however, in 1802 and again took up the task of opposing Pitt and the French war. When Pitt died he became a Secretary of State but a few months ater, on Sept. 13 1806 he died at Chiswick He was buried in Westminster Abbey.

FOX George Founder of the Society of Friends He was born in July, 1624, at Fenny Drayton, Leleestershire the son of a weaver He became a shoemaker but gave his time to preaching He was something of a mystic and believed in the guidance of what he called the inner light With rare courage and perseverance he travelled over the country and soon had followers in many places. These met regularly for worship on the lines laid down by Fox and were called by him the Society of Friends and by others Quakers He denounced war, formality in worship and the taking of oaths, and it is not surprising that he was often put into prison for his opposition to authority He travelled through Wales and Scotland and then visited the West Indies, North America and Germany He died in London, Jan 13, 1691 Fox's Journals is one of the world's great books.

FOX product Born at Ropesley, Lines, he was educated at Oxford and Cambridge In 1485, whilst in Paris, he entered the service of Henry VII, becoming his trusted adviser He was appointed Secretary of State and Lord Privy Seal, becoming Bishop of Exter in 1487. He was transferred successively to the sees of Bath and Wells Durham and Winchester On the accession of Henry VIII in 1509, he lost his power and resigned the privy seal in 1516. He was the founder of Corpus Christi College, Oxford, and died Oct. 5, 1528

FOXE John English martyrologist. Born at Boston, Lines, in 1516, he was educated at Oxford, becoming a fellow of Magdalen College in 1539. On his conversion to the tenets of the Reformation, however he resigned his fellowship. For a time he was tutor to the sons of Henry Howard, Earl of Surrey, but soon after the accession of Mary he went to Frankfort where he met Knox, and then to Basle, where he obtained work as reader to a printer. He returned to England.

when Elizabeth came to the throne, and in 1560 was ordained by the Bishop of London In 1562 3 he published his great work, Acts and Monuments, popularly known as The Bool of Martyrs He died April 18, 1687

FOXGIOVE
Genus of hardy blennial or perennial herbs (digitalis)
They are natives of Europe, W Asia and N Africa The only British forglove, D purpurca, is the statellest, bearing spikes of drooping, thimble-shaped pink flowers, spotted inside Gardeners have produced cream, white, rosy purple and spotted blooms, propagated by seeds or offsets One gloxinia like variety has erect flowers The large wrinkled leaves yield digitalin and other active principles used medicinally as heart tonics and sedatives See DIGITALIS DIGITALIS

Foxhound Breed of hound maintained for fox hunting Smaller than the standound, it averages 20 or 22 in in height and may be descended from a blend of bloodhound and greyhound with a buildog strain It is notable for flectness, strength fine scent, endurance and subordination and is deep-chested and straight limbed, with a smooth parti coloured coat. The hounds are bred for hunting purposes and great care is taken to maintain and improve the breed

Popular English sport Foxhunting Popular England for at least 700 years, at first it had for its object the killing of the fox on account of the damage done by that animal Later it devel oped into a sport, which was at its zenith in the 18th and 19th centuries Foxes are pre-Foxhunting served and landowners and farmers co-operate

to maintain a supply

The chief counties for fox hunting are the shires of Leicester, Northampton Warwich and thereabouts but it is also carried on in many of the other counties The country is divided into a number of hunts each consisting of a master, a pack of hounds and paid servants to look after them The expenses are usually met by subcription, although one or two packs are private property, as in the 18th century The most famous hunts are the Quorn, Pytchley, Cottesmore, Belvoir and others in the Midlands Tox hunting is carried on in Ireland and in Scotland, but not to any great extent elsewhere There are about 200 packs of hounds in Great Britain and nearly 100 in Ireland

The fox hunting season lasts from November to April It is preceded by a period of cub hunting really a trial for the bounds and

young foxes

Fox Terrier Breed of dog It is an panionable house dog The smooth type has a wirv coat usually black, white and tan, less desirably with liver-coloured markings, and is capable of prolonged exertion, although it is not a rapid runner The rough-coated terrier is better equipped with the hunting instinct, although both are employed in following hunrowing mammals such as weasels into their burrowing mammals such as weasels into their earths They kill rats with rapid snaps despatching them more expeditionsly than do cats

Fox Trot Dance of American origin alternate slow and rapid movement not unlike that of the for and was at first part of a stage performance. It then became a dance for two, and, as such, was very popular in the 20th century There are several variations Foyle Lough of the north coast of Ireland also the name of a river that flows into it Londonderry stands on the river, which is 16 m long The lough lies between the counties of Londonderry and Donegal—hence one side is in Northern Ireland, the other in the Free State

Fraction In mathematics any part of a unit In common or vulgar fractions the number above the bar is termed the numerator and the number beneath the bar the denominator Thus in the fraction ?, three is the numerator and eight the denomin ator In decimal fractions, the denominator is ten or some power of ten, a dot or decimal point being placed before the number Thus I represents one tenth 325 equals three tenths plus two hundredths plus five thousandths See DECIMAL

Fracture Breach in any hard body In a bone, it may result from direct or indirect violence, or muscular action It is called a simple fracture when no wound from it penetrates the skin externally, other wise it is called compound, except where another wise it is called compound, except where another serious injury is produced as dislocation or rupture, then it is called complicated. If the bone is broken into several pieces it is a comminuted fracture, if morely cracked, it is fissured, if one part is driven into another it is impacted and if partly broken or partly bent as with children's soft limb bones, it is called exceptible. greenstick

Fragonard Jean Honoré Born French Born at Grasso. April 5, 1732, he studied painting and soon made a reputation He painted pictures of contemporary life and also landscapes Of his works the five called 'The Lover's Progress' belong to Mr Plerpont Morgan others are in

belong to Mr Plerpont Morgan others are in the Louvre and the Wallace Collection, London Fragonard died Aug 2, 1806

Fram Vessel famous in polar exploration A three masted schooner with auxiliary steam engines, she measured 117 ft and weighted 402 tons Nansen used her for a northward drift followed by travel with sledges to 86° 13½ N, in 1893 7 Sverdrup used her for exploring Jones Sound in 1899 Amundsen used her for reaching King Edward VII Land, whence he marched to the South Pole, in 1910 12 In 1931 a fund was raised for preserving the Fram.

Framlingham Warket town of Suffolk It is 22 m from Ipswich and 90 from London, with a station on the LNE Rly In S Michaels Church members of the Howard family are buried There are considerable remains of one of their castles Framlingham College, founded in 1876 as a school for boys, occupies a fine block of buildings The town has an agricultural trade Pon 2200 trade Pop 2200

Frampton Sir George James Fnglish sculptor Born in 1860, he studied under W P Frith and at the Royal Academy Schools London gaining the Gold Medial and the Sir George James Fnglish sculptor Born Bright Schools London gaining the Gold Medial and the Sir George James Fnglish sculptor Bright School studied under W P Frith and at the Royal Academy Schools London gaining the Gold Medal and travelling scholarship in 1887 He was elected a Royal Academician in 1902 and knighted in 1908 His work, which is of a high order, is represented by his statue of Queen Victoria in Calcutta, Peter Pan in Kensington Gardens London, and the Edith Cavell Memorial in London. He died May 21 1929

Franc Standard coin of France, Switzer land and Belgium It was origin ally a gold coin issued in 1360, silver francs

being first coined in 1575 In its present form, as a unit of the decimal system, it dates from 1795 It is divided into 100 at 25 to the £ sterling being worth, therefore, just under 10d in English money
In France during the Great War the france

fell enormously in value and violent fluctua-tions took place. This lasted until June, fell enormously in value and violent nuclua-tions took place. This lasted until June, 1928, when in France it was stabilised at 124 21 to the £, or rather less than 2d in English money. Some British investors who had lent money to France when the franc was bigh lost heavily owing to its changed value

In Belgium the franc has been stabilised at 175 to the £ sterling in Switzerland it

retains its original value

France Republic of Europe It covers France 212,660 sq m and stretches from the English Channel to the Pyrenees and the Mediterranean, and from the Atlentic Ocean, of which the Bav of Biscay is part, to a land frontier dividing it from Belgium, German, Switzerland and Italy There are mountains, including the Vosges and some Alning peaks, in the east and a great plateau. Alpine peaks, in the east and a great plateau in the centre In the south the Pyrenees enter the country, and in the north-east are the Ardennes, but most of the land is flat The chief rivers are the Loire, Seine, Garonne, Somme and Rhône and there are many others Paris is the capital and the largest city Paris is the capital and the largest city in size are Marscilles, the great scaport, Lyons, Bordcaux, Lille, S. Etienne, Nantes, Nice, Toulouse, Strasbourg and Havre, each with over 150,000 inhabitants. In 1931 the population, as shown by the census, was 41,834,923, an increase of 1,091,026 in five years. A large part of the increase (395,281) is in the foreign population which numbers 2,890,923.

TERRITORIAL DIVISIONS. Before the Beyolution France was divided into provinces.

Revolution, France was divided into provinces and some of these retain something of their old independent life. In this respect Brittany is perhaps the most notable, but Normandy, Gascony, Pleardy, Provence and Languedoc are only a little less so. To-day the country of the country and the sound of the s are only a fittle less so 10-ua, the country is divided into 90 departments, one being the territory of Belfort, mostly named after the rivers therein Three of them form the district of Alsace-Lorraine, which was in German

GOVERNMENT, ETC The head of the for seven years by the two houses of the legislature together. These two houses are the Chamber of Deputies and the Senate The deputies are elected by all male citizens, for four years The members of the Senate are elected for nine years by colleges of electors in the various departments in the various departments. As in Great Britain, the work of the Government is in the hands of a ministry the head of this, the Prime Minister, is selected by the President, but he must be selected by the President. dent, but he must have the confidence of the dent, but he must have the confidence of the legislature to enable him to carry on his work. The other ministers are chosen by him, but appointed by the President Both senators and deputies are paid. As it is very unusual for one political party to secure a majority in the Chamber the ministries are usually coalitions, or, as the French call them, bloes. There is no state religion in France, but the prevailing faith is the Roman Catholic, which church has about 51,000 clergy in its dioceses. Monastic orders are subject to very severe

In its present regulations There imal system, it Protestants in France There are about 1,000,000 Protestants in France Education, secondary and university, as well as primary, is controlled by the state, and there is an efficient system of universities, colleges and schools Justice is administered in local courts, with courts of appeal above them, the highest being the court of cassation

France maintains a large army, including an air force, recruited by compulsory service. It is organised in 35 divisions, or about 500,000 men, with large reserves In addition there is a colonial army France has also a large navy based at Toulon, Lorient, Brest, Cherbourg and Rochefort

With a soil generally fertile, **ECONOMICS** France is a great agricultural country and other cereals are grown, and cattle, sheep and horses reared A great quantity of wine is produced and exported There are many manufactures, the chief industrial centres being Paris Lyons and the district in the NE where is a valuable field of coal and iron ore Besides providing for home con-sumption large quantities of silk and cotton goods, iron, steel and chemicals are exported The manufacture of silk is peculiarly a French The manufacture of sik is peculially a fidularly, as are several others that call for artistic skill The fisheries are valuable.

The country has an excellent railway system, which is steadily being electrified. The unit

which is steadily being electrified. The unit of currency is the franc, which is divided into 100 centimes. The metric system is in general The Bank of France is the state bank.

COLONIES France has numerous colonial possessions These cover 4,205,188 sq m, and have a population of 63,374,600 The largest area in Africa, where a vast area in the equatorial region is French Algerra, Tunis and Aladagascar are also French, as is part of Somaliland Part of Cameroons and Togoland are administered under mandate
Much of Morocco is a French protectorate
In Asia, France has Indo China consisting of
Annam, Cambodia Tonking, and Cochin
China, and Pondicherri in India, whilst she
administers Syria under mandate The remaining possessions include French Guiana and a few W Indian islands, and New Caledonia and some other islands in the Pacific Ocean

trict of Alsace-Lorraine, which was in German hands from 1871 to 1918 Each department has a prefect and a council, and is divided of Europe, and there Roman influence was very powerful and lasting Later it was very powerful and lasting Later it was invaded and conquered by the Franks and became part of the empire founded by Charle-magne Early in the 11th century it had its own kings, but their authority was for some time very circumscribed, as much of the land was under powerful dukes and counts especi-

was under powerful dukes and counts especially Normandy, Burgundy and Aquitaine. In the later Middle Ages the history of France is largely one of wars with England for the possession of the crown This period inded in the 15th century and then France, under the Valois and later the Bourbon kings, became the most centralised monarchy in France. When Brittany was included, it

To this picture there was a dark side, one is extravagance and corruption, and even orse, a vast amount of injustice towards be poor. For this a heavy price was paid the franchise has been extended, and, since hen the French Revolution destroyed the ionarchy and set up a republic. Then came to empire of Napoleon which ended in 1816, iter which the Bourbon monarchy was the monarchy was still confined to men. See Lieution, Vote. To this picture there was a dark side, one of extravagance and corruption, and even worse, a vast amount of injustice towards the poor For this a heavy price was paid when the French Revolution destroyed the monarchy and set up a republic. Then came the empire of Napoleon which ended in 1816, after which the Bourbon monarchy was restored This lasted until 1830, when Louis Philippe became king of the French In 1848 he was overthrown, and a second republic established From this Louis Napoleon emerged as the Emperor Napoleon III, and reigned until 1870

The third republic was created after the

reigned until 1870

The third republic was created after the Franco Prussian War in 1871, and exists to day It carried through the Great War, and when this was over turned to the task of bringing back prosperity to France and securing her from the danger of future attacks sectiving hor from the danger of future attacks. This policy, both military and economic, was not always acceptable to the other nations of Europe, but her statesmen kept on their chosen course A member of the League of Nations, France took a leading part in various European conferences, including the important one in London in July, 1931 and that at Lausanne in July, 1932, which settled the question of reparations. In Jan, 1934, the Staysky affair caused serious rioting in Paus and two governments fell in quick succession. M Doumergue was the premier who propose I reforms in the constitution and dealt with the Marseilles assassination situation. In May, 1935 a mutual assistance pact with the Soriet 1935 a mutual assistance pact with the Soviet was signed in Paris Two governments again fell over the serious financial position and II Laval at last won support for national economics After war started between Italy and Abyssinia France agreed to honour her League obligations and M Laval took the initiative in the peace plan which brought about Sir Samuel Hoare a resignation from the Bettleb Cobinet (Dec. 1925)

France Anatole French author whose real name was Jacques Anatole Thibault. The son of a bookseller he was Thibault. The son of a bookseller he was born in Paris April 10, 1844, and was educated at the College Stanislas there. He soon began to write and in 1868 produced a book on Alfred de Virny. This was followed by some poems and then came some stories. About 1880 he began to write novels and in the course of the next few years he had a reputation to which his further nork added. In 1896 he was elected to the Academy, and before the end was regarded as the greatest man of letters in France and one of the greatest in the world. A Socialist and a free thinker

Francia Francesco Italian paintor A born about 1450 Before becoming a painter he worked as a goldsmith doing some excellent he worked as a goldsmith doing some excellent work in metal and acting as head of the mint in his native city. About 1490 he turned to painting and produced a number of pictures before his death at Bologna, Jan 6, 1517.

Francia is represented in the National Gallery, London, by a 'Madonna and Saints"

Gallery, London, by a 'Madonna and Saints' Francis Italian saint known as Francis of Assisi. He was born at Assisi, the son of a merchant about 1182, and was baptised as Giovanni Later he was called Francesco, or the little Frenchman, and by this name he is known He lived the usual life of a wealthy young man proken by a spell of military service during which he was taken prisoner. After his release he had a serious illuse, and from this time date, and by a spell of military service during which he was taken prisoner— (Iter his release he had a sorious illuese and from this time dates his career as a saint. He gave this time to prayer and the service of the poor, and in 1207, having mortally offended his father, left his native city as a pauper— For two years Francis wandered about preaching in public places and paying special attention to the lepers— He soon attracted a few followers, and in 1210 went to Rome and obtained permission to found an order derected.

few followers, and in 1210 went to Rome and obtained permission to found an order devoted to poverty, work and struce. Thus the Franciscen order came into being. For the rest of his life Francis was occupied in preaching, his journeys extending through France and Spain and as far as Egypt, in addition to many in Italy. In his last days he passed much time in devotion and in Sept. 1224, he is said to have received on his body the five wounds of Christ. He died Oct. 3, 1226, and two years later was canonised.

A sincere devotion to poverty and a ren?

A sincere devotion to poverty and a real sense of the brotherhood of man shown by belse of the protherhood of man enough by his care for lepth and other outcosts, coupled with a great piety and much mysticism, made trancis the model of mediaeval sainthood and runcis the model of mediaeval suifithed and a character of unusual charm. His love of birds and flowers is an attractive trait in his character and another was his friendship with S Clare. He wrote many scrumons, hypms and other pieces both prose and

before the end was regarded as the greatest man of litters in Franci and one of the greatest in the world. A Socialist and a free thinker he defended Drevius and used his pen to vindicate the cause of France during the Great War. He died Oct. 13, 1924.

A supreme master of style and satire, France's best work is in his satirical novels notably L He des Pengouns, La Révolte des Anges and Les Dieux ont Soy! Hardly less noticeable, however, were his critical studies in history and literature such as the book on Joan of Arc and the essays in La Vie Liftraire. Thats, an Egyptian story, and Mergeret de Paris dealing with the Dreyfus affair, are also notable. Of his early books the best is Le Crime de Sylvestre Bonnard

Franchise in its carlier sense a lifty one granted by the crown. Thus early through level and lifty one granted by the crown. Thus early through level of Tuscany, who became om the best is Le crime de Sylvestre Bonnard

Franchises included the right to hold a market Later the word came to be used for the right to vote at elections of Parliament, and in this of Emperor of Austria. He was the brother of Marie Antoinctut, and from 1797 1809 was PETANCIS I. German king and Roman Brancis I. emperor lie was born Dec 8, 1708, the son of Leopold, Duke of I orraine, he succeeded his father in 1729 In 1737 he Lecume Grand Duke of Tuscany He had married the preceding year, Marla Theresa, daughter of the emperor Charles VI, who, on her father's death became sovereign of Austria Hungary and Bohemia Largely through her activities he was cheeted emperor in 1745, and all his life he was dominated by her I de died Aug 18, 1765

often at war with France, being, after each campaign, compelled to submit to humiliating terms of peace His daughter, Marie Louise, became Napoleon's wife, but, nevertheless in 1813 he joined the allies and greatly assisted in the final defeat of the great emperor Francis was the last emperor of the Holy Roman Empire which was dissolved in 1806, and the first Emperor of Austria March 2, 1835 He died

Francis I. King of France Born Sept. 12, 1494, a son of the Count of Angoulème, he belonged to a vounger branch of the royal family, and like his sister branch of the royal family, and like his sister.

Marguerite, who wrote the Heplameron, he was well educated, he was also adept at all manly exercises. In 1514 he married Claude, daughter of his cousin Louis XII and in 1515 he succeeded Louis as king. His reign was chiefly occupied with his wars against the emperor, Charles V, who took him prisoner at Pavia in 1525 In 1526 he was released, and he reigned until his death at Rambouillet. March 31, 1547

He was a patron of art and literature, which included the foundation of the College de France in 1530, this showed him as a true child of the Renaissance He was succeeded He was succeeded

by his son, Henry II

Francis II. King of France Born eldest son of Henry II and Catherine de Medici In 1558 he was married to Marv, Queen of Scots, and in 1559 he succeeded his father as king On Dec 5, 1560, he died in Paris and was succeeded by his brother, Charles IX

Francis Sir Philip English writer Born in Dublin Oct. 22, 1740, he was educated at S Paul's School, London, and in 1758 entered the public service. He was soon occupying a responsible position, and in 1773 went to India as a member of the Council of Bengal He remained there until 1781, having fought a duel with Warren Hastings and made a small fortune at cards In 1784 he was elected an MP, and was a member of the group by whom Hastings was impeached His other activities included the founding of the Society of Friends of the People, and a friendship with the Prince Regent. In 1806 he was knighted, and he died Dec 22, 1818 He was supposed to have written The Letters of Junus, which, however, he never admitted, and the authorship cannot for certain be attributed to him Council of Bengal He remained there until for certain be attributed to him

Franciscan Order of mendicant friers founded by S Francis of Assist in 1210 Formally approved by the pope in 1223 they laid special stress on preaching and ministering to the body and some Asiatic, N African and American missions still survive In Lugland, where they arrived in 1224, founding houses at Canterbury, London and Oxford, they were known as Grey Friars At the dissolution of the monasknown as teries in 1537, 66 of their friames existed.

Other Franciscan orders comprise nuns called Poor Ladies or Poor Clares, 1212, and Tertiaries 1221. From the stricter section called Observants, the Conventuals, who practised a mitigated rule, separated in 1517, whilst the Capuchins, established in 1525, separated in 1610. After 1827 these members separated in 1619 After 1897 those members of the order who were neither Conventuals nor Capuchins became known as Friars Franciscans wear a grey or dark-Minor brown cowl, girdle and gandals.

Francis Ferdinand Austrian archduke

Born at Graz, Dec 18, 1863, the son of Archduke Charles Louis, he was nephew to the emperor Francis Joseph, and on the death of the Crown Prince, in 1889, became heirapparent to the throne In 1900 he contracted a morganatic marriage with the Countess Sophia Chotek, who was created Princess of Hohenberg, renouncing for his wife and her children the right of succession Whilst on a visit to Bosnia, he and his wife were assassinated at Sarajevo, June 28, 1914

Francis Joseph Emperor of Austria-Hungary The eldest son of the Archduke Francis, a grandson of the Emperor Francis II and a member of the house of Hapsburg, he was born in Vienna, Aug 18, 1830 In 1848 his uncle, Ferdinand, abdicated and Francis Joseph succeeded him His reign, which lasted for 68 years, was one of misfortune, both nationally and personally There was much discontent in the various parts of his empire, and in 1859 he lost some of the Arctica content in the various parts of his empire, and in 1859 he lost some of the Austrian possessions in Italy, the rest going a few years later. More humiliating still was the rapid defeat of Austria by Prussia in 1866, and the end of Austria's long dominance in German affairs. However with an innate stubborness the emperor held on, and towards the one took the fate step of attaching Sarphia. the end took the fatal step of attacking Serbia. after the murder of his nephew and heir, Francis Ferdinand.

Francis Joseph married Elizabeth, a Bavarian princess His only son, Rudolph, met with a tragic death in 1889 He himself died in the midst of the war, Nov. 21, 1916, and was succeeded by his nephew Charles.

Franck Cesar Auguste French com-poser He was born at Liege, Dec 10, 1822, and after studying music there and in Paris, became a teacher of music He also became organist of a church in Paris, and in 1878 Professor of the Organ at the Conservatoire there He composed a great deal, including some orchestral works He died Nov 8, 1890

Franconia District of Germany It great duchies and some of its rulers became German kings Named after the Franks, it lay in the W. of the country with Frankfort as its capital In 1024 the duchy was divided between several princes, but the name re-maned in general use, and until 1802 the bishops of Würzburg called themselves dukes of Franconia

Most of Franconia is now included in Bavaria, and three districts of the republic are middle, lower and upper Franconia

## Franco-Prussian War

Struggle in 1870-71 between France and Prussia, the latter aided by Bavaria and other German states There was some tension because Napoleon III, then ruling France. objected to the selection of a German prince as king of Spain Thinking the time favourable, Bismarck precipitated the struggle by altering and publishing a telegram from Ems which made it appear that the King of Prussia had insulted the French Ambassador War was declared by France on July 19, and on Aug 6 the main employ correlies.

and on Aug 6 the main armies came into contact. At Woerth and Spicheren the Germans, who invaded France in three armies were victorious, and soon the French had

abandoned Alsace Lorraine, except the fortress, of Metz. German victories at Vionville, Mars la Tour, and, on Aug 18, Gravelotte, forced a large French Army to take refuge in Metz Then on Aug 31 and Sept. 1, came the decisive Battle of Sedan This ended in the surrender of Napoleon and his army and, a little later, the forces in Metz followed this

The Germans then marched unopposed to Paris, which was besieged from Sept 20 until Paris, which was besieged from Sept 20 until its surrender in Jan, 1871 During these months the French raised new armies, and there was a good deal of fighting around Orleans and elsewhere, but nothing could save their cause The armistice was followed by the peace of Frankfort. France agreed to surrender Alsace Lorraine, except one small district, and to pay an indemnity of £200,000,000

Frankfort City and river port of Germany, usually called Frankfort on Main Situated 22 m from the junction of the Main with the Rhine, in the Prussian province of Hesse Nassau, it is, owing largely to its position, one of the most important German cities The old town is on the north side of the river, on the south side is Sachsenhausen and all around, stretching for heavend the lines of the old fortifica ing far beyond the lines of the old fortifica tions, are modern suburbs

Among the many famous buildings in the old town are the Kaisersaal and the cathedral The old home of the Rothschilds is now a museum, as is the house in which Goethe, Frankfort's most famous son, lived The university dates from 1914

The palace garden and the zoological garden are famous, and there are some noble memorials. An old bridge and several modern ones cross the river

ones cross the river

Frankfort is a noted banking city, and in
its population is a large Jewish element
It is an important railway centre and has a
considerable trade along the river Other
industries include numerous manufactures
and printing works.

HISTORY Frankfort the city of the
Frankfort was an early residence of the Frankfort

HISTORY Frankfort the city of the Franks, was an early residence of the Frankshings, and quickly became a free city It was the place chosen for the election and later was the place chosen for the election and later the coronation of the German kings, and in the later Middle Ages, its wealth and import ance grew rapidly. It was an early home of printing and had important fairs. From 1810 14 it was the capital of a grand duch), and from 1816 to 1866 the meeting place of the diet of the German Confederation. In 1848 49 the great National Parliament elected to conclude a union of the German states, met here. In 1866 the free city took the side of Austria against Prussia and consequently lost its exceptional status. Since then it has been part of Prussia. Pop 467,500

Frankfort on-the-Oder City of Prussia It stands on both sides of the Oder, 50 m from Berlin, and oold sides of the Oder, 50 m from Berlin, and is a shipping and manufacturing centre and a railway junction. There are docks along the river, which is connected with other German rivers by canals Frankfort proper is on the left bank of the Oder, on the right bank are suburbs Frankfort belonged to the Han sectio League in the Middle Ages Pop 75,000

Boswellia, which grow mainly on the Somali-land and Arabian coasts, whence it reaches Bombay It appears in commerce as hardened yellow tear drops called gum olibanum It entered into the incense of the Jewish sane tuary (Ex xxx) Long employed medicinally it is nowadays rarely used

Franking Use of the postal service Parliament, both peers and commoners, long enjoyed the privilege of sending their letters, and those of their friends through the post without fee In 1764 the number for each member was restricted to 10 a day, and in 1840 the privilege was abolished Official letters are still franked when sent on public business, by marking the envelope O H M S

Franklin Name sometimes used in mediaeval England for a small independent landowner. He was below the nobles, but above the villeins Chaucer has a franklin in The Canterbury Tales, and the word is used by Scott in Ivanhoc

Franklin Benjamin American politician and scientist Born in Boston Jan 17, 1706, the son of a tallow chandler from England, he was apprenticed when a boy to his brother, a printer In 1723 he settled in Philadelphia, but soon went on a vain creand to London, where also he worked as a printer Returning to Phila delphia he became owner of The Pennsyl ranta Gazette, and in 1732 started the popular

canta Gazette, and in 1732 started the popular Poor Richard's Almanac Prominent in public life, he was postmaster of the city in 1735, in 1736 he was made Clerk to the General Assembly of the state of Pennsylvania, and in 1751, on giving up that post, he became a member remaining such for 13 years. In 1757, as agent for his state, Franklin went to London and remained there until 1762, he filled the same position from 1764 to 1775 and to these two periods is due his acquaintance with English men and manners In 1776 he helped to draw up the Declaration of Independence, and went to Paris on behalf of the revolting colonles where he arranged of Independence, and went to Paris on behalf
of the revolting colonies where he arranged
for the help of France in the struggle with
Britain and remained until peace was slaned
in 1783 He was President of the State from
that time until he retired in 1788, and helped
to draw up the constitution of the United
States Franklin died in Philadelphia, April
17, 1790
Franklin spent much of his time in scientific
research, particularly on electricity A

research, particularly on electricity A practical result was his invention of the lightning conductor

lightning conductor

Franklin Sir John English explorer

16, 1786, he entered the navy in 1801, and was present at the Battles of Copenhagen and Trafalrar In 1818 he made his first Polar expedition to the Arctic, under the direction of Capt Buchan In 1819 he explored and charted the little known northern coasts of America, writing on his return a Narratice of the Journey In 1829 he was knighted, and was Governor of Van Diemen's Land, 1836 43 In 1843 Franklin set out in search of the N W Passage, and for many years nothing was heard of him Several expeditions were sent in search of his party, and in 1859 a paper was found giving some record of Frankincense Aromatic gum resin the ill fated voyage and of Franklin's death, Tarious trees, pre-eminently of the genus actually discovered the N W Passage

a chief, but these united together, and in the 4th century were collected into only two groups, the Ripuarian Franks and the Salian Franks Under the leadership of Clovis the Salian Franks moved into what is now known as France, and in 481 he was made their king Thus began the Kingdom of France, which took their name Clovis conquered which cook their name Clovis conquered much of the land, and the Ripuarian Franks came under his rule Later, however, in the 9th century, when their land had extended in all directions, the Franks again broke into two divisions The west Franks remained in France, whilst the east Franks founded what later became Germany later became Germany

Franz Joseph Land Archipelago in the Archipelago tic Ocean to the east of Spitzbergen. It consists of about sixty volcanic islands, mostly glacier covered. It was discovered by Julius Payer in 1873

Frascati City of Italy It is 15 m Rome, and owes its fame to its beautiful position on the Alban Hills On this account it became a popular resort in the hot weather and many Roman families had villas there There is a modern cathedral in which Charles Edward, the Young Pretender, was buried in 1788, and around are vinevards, the place being noted for its wine Near are the ruins of an amphitheatre Pop 11,000

Fraser River of British Columbia It Fork, two rivers that rise in the Rocky Mountains They Join at Fort George and flow, as the Fraser for 750 m to the sea in the Strait of Georgia The river is famous for its salmon and also for the scenery along its course

It is navigable for about 100 m

Fraserburgh Burgh and scaport of Aberdeenshire It is 47 m from Aberdeen and 155 from Edinburgh, on the LNE Rly There is an excellent harbour, and the place is one of the Scottish centres of the herring fishing Pop (1931) 9720

Fraserville Town and riverside resort of Quebec, Canada, also known as Rivière du Loup Standing where known as Riviere an Lour, that river falls into the River St Lawrence, 110 m from Quebec, it is a port, a pleasure resort and has some manufactures Pop 7700

Fraud Deceit or imposture In English law it is an offence to commit a fraud, i.e., to gain an advantage by a deliberate act of deceit Some frauds, for instance, a conspiracy to defraud, are criminal offences. The statute of frauds is an important measure dating from 1676 By it no one can bring an action for fraud unless he has written evidence to support it

Fraunhofer Joseph von German scientist. Born in Bavaria in 1787 he became a glass polisher, a career which led him to study mathematics. In 1806 he secured a position as optician in an institute at Munich and in 1809 he helped to found a similar institute which he con-

Franks Name given to some European these and gave the distinctive letters A to H franks tribes. They are first heard of to the most important of them. Much work in the 3rd century and lived along the lower has since been done in the same direction, and over 10,000 lines have now been counted, but they would be the local tribe was under the local tribe wa but the inception of this branch of astronomy is due to Fraunhofer

Frazer Sir James George British scholar Born in Glasgow in 1854, he was educated privately His life was spent in studying comparative religion and its associations with folklore and mythology and this led to publication in 1890 of The Golden Bough, the greatest work of its kind Several Bough, the greatest work of its kind Several editions have appeared, each with additional information In 1915 it was again published in 12 volumes, and in 1922 in an abridged edition In 1907, Fraser was made Professor of Social Anthropology at the University of Liverpool, and in 1920 an FRS In 1914 he was knighted, and in 1925 was given the OM His other writings include Totemism and Exogamy Balder the Beautiful and Folklore in the Old Testament

Freckles Brownish yellow spots appearing in the skin. They are They are found particularly on the face, neck and hands of fair and red-haired persons during hot and windy weather, and comprise pigmented areas in the deeper layers of the cuticle They are stimulated by exposure and are best left alone

Treatment—Lergyel's Birch Balsam is a good lotion to apply to freekles with a brush or soft piece of rag once daily. It should be washed off with soft water in about half an hour and the skin carefully dried

Frederick I. Emperor of the Holy Roman Empire, known as Barbarossa. Born about 1124 he belonged to the Hohenstaufen family, and in 1147 succeeded his father as Duke of Swabia In 1152 he was chosen German king in succession to his uncle, Conrad III., and in 1155 he was crowned Emperor in Rome Frederick's long rolan fall into two subergs of activity long reign fell into two spheres of activity
To Germany he was a strong and resolute
ruler, crushing the powerful dukes who opposed his authority In Italy, Frederick was
much less successful Having quarrelled with much less successful the pope, he set up popes of his own, but his attempts to maintain them met with only partial success Other enemies rose up against him, and in 1176 his armies were beaten at Legnano, and in 1177 he signed a humiliating peace at Venice with Pope Alexander III In 1189 he set out on a crusade, and he was drowned in Asia Minor on June 10, 1190

Frederick II. Emperor of the Holy Roman Empire Born Born in Italy, Dec 26, 1194, he was a son of the Emperor Henry VI in 1196 he was chosen German king, and in 1197 became King of Sicily His extraordinary abilities won for Sicily him the title of stupar munds, the wonder of the world

In 1212 Frederick went to Germany and was crowned king, but he had a hard fight to establish his position there, which was never tery secure In 1220 the pope crowned him Emperor in Rome, and in 1228, after some years in Sicily, he went as a crusader to Palestine and was crowned King of Jerusalem. Frederick's sons, Henry and Conrad, in turn his greatest achievement was to discover the lines in the solar spectrum named after him. He counted and mapped out 600 of Palestine and was crowned Aing of Jerusalem. On his return he quarrelled with the pope, and the latter was beaten and humiliated. Frederick's sons, Henry and Conrad, in turn rose in rebellion against him, and by 1239 he was faced with a very formidable circle him.

With these the pope made an alliance, and the war that broke out continued during the rest of his reign Time and again Frederick's cause seemed hopoless, but with remarkable perseverance he kept up the fight to the end (In Dr. 13, 1250, the emperor died He was buried in Palermo, the seat of his magni

ficent court.

Frederick Gorman ompotor He was born at Potsdam, Oct. 18, 1831 Son of the Emperor William I He commanded on army in the war against Austria in 1866, and another in the struggle Austria in 1866, and another in the struggle with France, 1870 71, and was Crown Prince of Germany from that time until he became Emperor in 1888 He only reigned a few weeks as on June 15 1888, he died of cancer of the throat Frederick married Victoria, eldest daughter of Queen Victoria of England They had two sons and four daughters The sons were William II. and Prince Henry of Prussia.

Frederick King of Bohemia Born of Frederick IV, elector palatine of the Rhine, and became elector as Frederick V in 1610 In 1613 he married Elizabeth daughter of James I and in 1619 before a Prederick V. 1010 In 1613 he married Elizabeth daughter of James I, and in 1619, being a Protestant he was elected king of Bohemia. His enemies however, were too strong for him. He was called densively "the winter king," and driven from the land. His enemies also took from him his electorate, and although James sent help he could not recover it. From 1623 until his death. Nov. 29, 1632, Frederick was an exile One of his children was Sophia electress of Hanover, he was thus an ancestor of King Elward \ 111 Prince Ruper was one of his Hanover, he was thus an ancestor of King Elward VIII Prince Rupert was one of his

Frederick Name of eight kings of portant are I rederick VIII and Frederick VIII The former, who relgated from 1848 to 1863, was the last king of the Oldenburg family He died Nov 15 1863.

Frederick VIII was a son of Christian IX

and a brother of Queen Alexandra He became this in 1900, and died in Hamburg, May 14
1912 His wife was a daughter of Charles
XV Ling of Sweden, and he was succeeded
by his eldest son Christian X

Frederick II King of Prussia, called the Great Born in Berlin, Jan 24, 1712, the son of Frederick William I he soon showed that he possessed reasons his father made his his a burden to him and in 1730 ho tried to escape from court this was preented, and for some years he was little better than a prisoner. Then, the resement become a proposed he matrick a princess of Brunswick corresponded with Voltaire read much French literature and wrote in that language Int. Machiavel au expression of his belief that a king must be

On May 31, 1740 Products became king and almost at once made war on Austria His aim was to obtain Silesia which was given to Prussia by treaty in 1742 Tho war was soon renewed, but when it was ended in 1745 the Prussian king was known as a very capable soldier, if a cynical politician for the next colorn, in a cyment pointened for the field cleven years he was able to put his ideas of paternal government into practice, but he also kept his army efficient for he foresaw a recur-rence of war In 1756 the Seven Years' War began

The odds against Prussia aided only by Britain, were immonse, but her king performed miracles both as general and administrator. In this period he carned the title of great, and a place among the masters of the art of war. His people, however suffered terribly, and big country. art of war His people, honover suffered terribly, and his country was ttterly ex hausted when peace was made in 1763 For nausted when peace was made in 1705. For the test of his reign, ruling as an absolute monarch, he did a good deal to restore its prosperity, whilst by sharing in the partition of Poland in 1772, he added more territory to Prussia. In 1778 he again made war on Austria and again enlarged his realm.

Austria and again onlarged his realm
Frederick died, without sons, at Potedam,
Aug 17, 1786, and his nephew, Frederick
William II followed him on the throne The
king wrote a great deal, always in French,
and his writings have been published in 33
volumes, while further volumes are filled
with his political correspondence There
are many Lices of the king, notably the mas
attra one by Cerlyle to whom in cortes the sive one by Carlyle to whom, in spite of his flagrant breaches of faith Frederick was a

Frederick Prince of Wales The cldest son of George II, he was born Jan 6 1707 before his grandfather became King of Great Britain In 1714 he was made Duke of Gloucester and in 1729, Prince of Wales He married Augusta a daughter of the Prince of Saxe Cobjurg, and was the father of George III He is chiefly became of his entryle with his chiefly

was the father of George III He is chiefly known because of his quarrels with his futher which led him to make his house a kind of court for all who disliked George II and Sir Robert Walpole He died March 20 1751

Frederick Charles Pruss is a no soldier, called the Red Prince Born Mar 20 1828 he was a grandson of king Frederick William III and a nephew of William III can a nephew of William III and a nephew of William III and a nephew of William III and a nephew of William II de army, and in 1861 commanded the prussians in the war realist Lemmark, and led an army in the campaign against Austria in 1866, winning fame at Sadowa He commanded one of the three armies that invaded France in 1870 when he was again successful in the field, especially at Mietz commands The prince died June 15 1885 commands The prince died June 15 1885 One of his daughters became the wife of the Duke of Connaught His name of the Red Prince was due to the fact that he frequently were the red uniform of one of the Russar regiments

Fredericksburg City of Virginia, on the Rappahannock river 60 m from Richmond is well served by rathways and has

some industries Pop, 6000

A great battle in the American Olvil War
took place near Fredericksburg in Dec, 1862 took place hear Fredericksburg in Dec. 1862.
The Confederates, or Southerners under Lee, very defending the road to Richmand, when the Northerners or kederals under Burnside appeared on the Northerners the river On Rappahannock for about a month there was desulters fighting across the river On Dec. 12, the Northerners made a crossing and selzed Fredericksburg. A three days buttle ended in a complete victory for the Southerners on Dec. 15, Burnside tool his men back across the river baying lost over 12,500 men. The Southerners lost about 4000 12,500 men 4000

Frederick William chector of an old of or Brandenburg and four Lings of Prussia-

famous as the king who collected giants for his army, and was the father of Frederick the Great Frederick William II succeeded his uncle, Frederick the Great, in 1786 and reigned until 1797 Hisson, Frederick William III. was king from 1797 to 1810 He led his zig, a free city since 1919 In the Middle Lages there were many free cities in fally and Lages there were many free cities in fally and These were part of the Holy was ruler during the European settlement that followed the peace of 1815 Frederick William IV succeeded in 1840, but lost his reason in 1857 He lived until June, 1861, his brother William, afterwards emperor, acting as regent.

Fredericton Capital of New Brunswick, Canada It stands on the river St John, 80 m from its mouth and 68 from St John its scaport It is served by two branches of the CN Rivs The University of New Brunswick is situated here The industries include lumbering and some manufactures, and there is some shipping along the river At first named St Ann's, Fredericton was made the capital in 1788 Pop (1931) 82-8

Frederiksborg Palace of Denmark It stands on some islands in a lake in Zeeland, about 21 m from Copenhagen The early kings had a castle here, but the present building, which stands in a large park was erected by Christian IV about 1620 In 1859 it was largely rebuilt and is now a national museum

Fredericksborg must be distinguished from sedericksborg. The latter is a vestern suburb Fredericksberg of Copenhagen where there is also a palace, now used for public purposes. It stands in extensive grounds, part of which are used as

a zoological garden

Freeboard In a vessel the distance between the upper or main deck and the load-water line It should provide an amount of reserve buoyancy that will been a ship affoat if two of its compartments have been holed

Free Church Protestant evangelical communion that is not an established church Based on individual freedom in metters of doctrine, church government and ministerial appointment, the free churches include the Congregational, Baptist and Methodist churches, the Presbyterian Church of England the Free Episcopal churches, the Society of Friends and cognate communions The National Council of the Evangelical Free Churches holds an annual conference

Its hendquarters are at the Memorial Hall, Its hendquarters are at the Memorial Hall, I arringdon Strict, London E C
FRLE CHURCH OF ENGLAND Religious hour called also the Reformed Fpiscopal Church It was founded in 1844 in Devonshire by some members of the Church of England who objected to High Church teaching It is governed by belong and long a small members.

ship chieff in the W of Length Presbyerian communion It was fermed by members
of the Established Church of Scotland who,
chiming for parishionars the right of changing

The elector, Frederick William, called the lished church in 1843, the Rev Thos Chalmers Great Elector, began to reign in 1640, and being their leader. They formed a new church ruled until his death, May 9, 1688. He was which was joined in 1876 by the Reformed responsible for making Brandenburg much larger and stronger so that it became a power the established church in numbers and influence in 1900 the Free Church and the United Reformed Presbyterian Church was publicated as the United in Europe, and his son, Frederick, was able to obtain the title of king of Prusan

Frederick William I the second king of Free Church of Scotland, and in 1930 there was Prusala, relgned from 1713 to 1740 He is a union of this body and the established church Just before the union the Free Church had a

> Roman Empire, and owed allegiance to the emperor but to no one else In Italy thou threw off, after a time even this authority. but in Germany they remained imperial free cities until the dissolution of the empire in 1806. At one time there were nearly 100 of them, including such famous places as Nüremberg, Frankfort and Augsburg Gradually their number was reduced, as they were taken by one or other of the German rulers until, after the Napoleonic wars there were only four Of these Frankfort lost its irredom in 1866 Hamburg, Bremen and Lubech con-tinued free cities of the German Empire, and are now free cities of the German republic

> Freehold In England and other countries a form of holding land. It is the most complete form of ownership known to the law, and a free hold estate is one with the fewest possible burdens on it Sinco the changes made in 1925 all land in England has been either freehold or leasehold

> Freeman In early society there was a sharp distinction between freemen and One who is not slaves, this being the case in Greece and Rome, as well as among the Anglo-Saxon and other Teutonic tribes, the freemen forming the fighting and governing class Gradually, as slaves became free the distinction disappeared. In England a seri or villein could, Gradually, among other ways of winning it, obtain his freedom by residing for a year and a day in a chartered town. By the end of the 15th century serfdom had entirely disappeared in Britain, and the word freedom had lost its special meaning In other European countries the same process took place but at a slower rate

> The word freeman was then used in England for a man who had the right to take part in the government of the city or borough in which he lived These privileges were greatly abused, and in 1835 they were swept away, the municipal corporations being reformed. don, however, was an exception, and there freemen still remain and take part to a slight extent in the city's government. This freedom is usually obtained by heredity, or by apprenticeship, although the latter is only nominal and all freemen are members of one or the other of the city companies.

> A third kind of freeman came into existence in the 19th century These are men of dis-tinction, such as a Prime Minister or a leading soldier, who are given the honorary freedom of a city or borough, now a popular way of recognising distinguished services to the state

claiming for parishioners the right of choosing | Freemall historian Born at Hartheir own munisters, seedled from the establishment, Aug 2, 1823, he entered Trinity

College, Oxford, in 1841, being elected a fellow in 1845 His first published book was a History of Architecture, 1849, and he was a constant contributor to The Saturday Remew He made his reputation as an historian by his History of Federal Government, which he did not finish, and his History of the Norman Conquest In 1884 he was made Professor of Modern History at Oxford, and he died March 16 1892 16 1892

Freemason Member of a great inter national organisation. The earliest records of British freemasonry are in Scotland, but a much longer history is claimed for it, one going back to the days of the Grecks and their mysteries There were societies, or lodges, in Scotland in the 16th century, the oldest being in Edinburgh A little later there was a lodge in Newcastle on Tyne, and soon one or more in London on Type, and soon one or more in London In 1717 four London lodges united to form the Grand Lodge of England The Grand Lodge of Ireland dates from 1729, and the Grand Lodge of Scotland from 1736 From them lodges are the control of the long lodge of Scotland from 1736 From them lodges are the second to the long lodge of Scotland from 1736 From them lodges are the long lodges are the lodges are the long lodges are the l these lodges members have carried the ideas these lodges members have carried the ideas of freemasonry into all parts of the world inhabited by white men The movement grew rapidly during the 19th century, and there are now nearly 4500 lodges on the register of the United Orand Lodge of England and a total membership in excess of 4 000 000

The organisation consists of a number of lodges, each with its own officials elected by the members Members are admitted very much as to a club, and many lodges are con the members much as to a club, and many lodges are confined to men with similar interests or occupations. Each lodge has its master, treasurer warden and secretary. Regular meetings and dinners are held, and at these a good deal of ceremonial is observed. Special robes and jewels are worn by the masters. The lodges are united under provincial Grand Masters, and abroad under district Grand Masters. Over all is the united grand lodge with the Duke of Connaught as grand master.

Apart from masons proper, who are called

Duke of Connaught as grand master
Apart from masons proper, who are called
craft masons, there are other societies of
masons, associated more or less closely with
the parent body Such include the Royal
Arch masons, the Mark Masons and several
others The offices of the United Grand Lodge
are in Freemasons Hall, Great Queen St,
London where a fine building has been erected
as a war memorial The Scottish Grand Lodge
bas its headquarters at Freemasons Hall as a war memorial The Scottish Grand Lodge has its headquarters at Freemasons Hall kdinburgh, and the Irish one in Molesworth St. Dublin In Great Queen St. London also, is the hall of the Grand Lodge of Mark Master Masons

Freemasons are noted for their charities There is a Masonic Benevolent Institution for assisting improvershed masons and their

There is a hissoin believe the for assisting impoverished masons and their dependents. For orphans they maintain schools—at Bushey for boys and at Clapham Junction and Wey bridge for girls. Similar schools are also supported by the Irish masons. In addition there are many other benevolent funds and associations maintained by the lodges in Great Britain and abroad.

Free Port port at which no duties are charged on goods enter ing it. In the Middle Ages and later there were a number of such ports, but with the increasing use of tariffs they have disappeared some scaports, however, have a free port, to which goods are brought in order to be shipped and sent to another country. There shipped and sent to another country There is one at Hamburg and other Luropean sea ports have them Fiume is a free port.

Freestone Building stone, either a sandstone or limestone, which can be easily dressed by the hammer and chisel Beer freestone from the middle chalk of Beer near Scaton, Devon, was much used in the old churches of Devonshire and in the restoration of Exeter Cathedral

520

Freethought Term associated with disbolic in the doctrines of the Christian or any other religion. It came into use about 1700, and was a popular term in the days when Charles Bradlaugh was term in the days when Charles Bradlaugh was attacking Christianity, when, in the minds of most people, it was synonymous with atheism Its adherents however, assert that it does not imply necessarily hostility to any form of religious belief but is simply the right to examine their beliefs in a scien tific spirit, testing them by the accepted rules of orderne and declining to accept any deciof evidence and declining to accept any document or tradition simply because it is classed as sacred Freethought to day is more gener ally known as rationalism (q v)

Freetown Scaport and capital British capital Africa. It stands on the estuary of the Rokel liver, is a second-class Imperial coaling station, and has an excellent harbour. The port is connected by railway with the interior. Free town, as the name suggests was founded as a home for freed slaves. Pop. 44 000

Free Trade Primarily the absence of restrictions on trade, especially between nations The doctrine is due mainly to the teaching of Adam Smith I Wealth of Nations, which was popularised by Richard Cobden Under it most goods are admitted into the country free of duty, but if for revenue purposes a duty is not are admitted into the country free of duty, but, if for revenue purposes, a duty is put upon any class of imports a corresponding tax must be put upon the same goods produced within the country forat Britain was on the whole a free trade country from the days of Sir Robert Peel until the introduction of a tariff in 1931-32 but other countries, with a few exceptions refused to follow her example See IMI FRIM I REITRI (1

Free Will idea that man can control that they are not controlled by an external force or power It is both a philosophical and a religious idea, and in both spheres there are two schools of thought. The philosophers who deny the existence of free will in man who believe that every action is determined by some previous action and therefore ulti mately by the forces that control the universe, are called determinists. In religion the great opponent of free will was John Calvin, whilst opponent of free will was some Calvin, while Arminius took the other side and for long, religious bedies especially Protestants, were sharply divided into Arminians and Calvinista To day the religious difference is much less prominent.

Freezing Point Temperature at which a liquid changes to the solid state. In the case of water it is 0 C (32 F) The freezing point is affected by pressure and as in the case of water, expansion tales place on freezing the interpretary assure lowers the freezing there is the case of the property of the case water, expansion the es place on freezing the increased pressure lowers the freezing point. The presence of a sait in the liquid also lowers the freezing point which together with the heat absorbed during the solution of the sait. explains the uee of freezing mixtures of salt and lee

Freiburg im-Breisgau City and

episcopal see of Germany Situated in Baden, for the hideous inequalities which prevailed on on the Dreisam, 40 m N of Basie, it has a every side university founded in 1457, and a fine Gothic The actual movement began in 1789 when cathodral of the 12th century The manufactures include surgical and musical instruments It has a broadcasting station (570 M, 025 kW Pop (1925) 90,175

Freight Term applied to the cargo of a ship, also to the charges for transport of goods by sea. Goods are grouped into four classes for transport purposes, the first class having the highest rate in addition a special class includes all goods of a special or dangerous character, such as jewellery, cement or gunpowder. In the United States the word is much used in connection with goods carried by railway

Town and scaport of W Fremantle the mouth of the Swan river, 12 m from Perth, and has a fine harbour There are some manufactures, but shipping is the chief Industry A pleasure resort, Fremantle has several beaches for bathing, while a little farther away is the popular Point Walter Electric tramis the popular Point Walter Electric tramways serve the town and district. Pop 35 143 ways serve the town and district. French Equatorial French Africa French Congo, Gabun, by decree in 1906 to the French Congo, Gabun, The area is Ubangi Shari and Chad colonics The area is approximately 912,049 sq. m, and the population 3,192,282 (1931), with 3,300 Europeans It exports ivory, rubber, timber, palm oil, coffee and coooa The annual rainfall in parts coffee and coooa The annual rainfall in parts reaches 120 in Much of the country is still undeveloped

French West Africa French colonial posses sion It comprises the Ivory Coast, French Guinea, Dahomé, Niger, French Sudan, Senegal, Haute-Volta and Mauretania The capital is Dahar, area 1,799,039 sq m, and the popula tion 14,576 973 (1931) The chief products are regardable oils timber pubberand entils. Cotton vegetable oils, timber, rubber and cattle Cotton and cocoa are increasing in importance

## French Guinea see GUINEA

French Polish Preparation used in producing a high polish on furniture woods solved in methylated spir Shellac is dissolved in methylated spirit, colour being given either by using different grades of the gum resin or by adding pigments The polish is rubbed on the wood, linseed oil being used to ensure smoothness of action

French Revolution Movement that begin in I mnee in 1789 and exercised an enormous influence in Europe The condition of the French people, especially in the rural districts was very bad, the system of government being thereughly. thoroughly corrupt Power was concentrated in the hands of the king and the nobles, and on it there were no effective checks The upper classes paid no taxation, which consequently fell with great severity upon the poor The country's finances had got into a condition of hopeless confusion

Side by side with this state of affairs, Voltaire, Rousseau and others were teaching the people new ideas, which especially in the towns, found ready acceptance Voltaire cast contempt upon the religious and other conventions which, hitherto, had helped many to acquiesce in their wretched lot Rousseau preached the natural rights of man, and the idea of a state in which the general will was supreme People began to see that there was no warrant, either in divine or human law,

the States General, the nearest approach to a

representative body existing in France, was called together, for the first time since 1614 When it met the commons, or third estate took the lead, and a National Assembly was

On July 14, 1789, the mob destroyed the Bastille, and there were risings all over the country The tricolour was adopted as the flag of the revolution and talk of a republic began

The National Assembly decided that all privileges should be abolished, and turned itself into an assembly for the proparation of a constitution Many of the nobles fled to England and elsewhere, but the king still had many supporters, although he was little better than a prisoner

better than a prisoner
In June, 1791, the king, Louis XVI, escaped from Paris, but was stopped at Varennes and brought back. The assembly then decided to make France a constitutional monarchy but for several reasons this was not con summated Several foreign rulers and large numbers of their subjects were now thoroughly alarmed at the course of events in France and the exiled French nobles were urging them to interfere Prominent here was the Emperor of Austria a brother of Marie Antolu-ette, the wife of Louis XVI With the King

ette, the wife of Louis XVI With the King of Prussia, he had issued a declaration, demanding that France should restore Louis XVI

The republican party, chiefly Jacobins and another group called Girondins were, however, gaining strength, and the efforts to bring about foreign interference only added to their influence The outcome was that, in March, 1792, France declared war on Austria, but in spite of riots and disorders the French troops defeated the Prussians at Valmy

A National Convention now took over the

A National Convention now took over the control of affairs, and the most terrible part of the revolution began The extremists were now absolutely supreme, their leaders being Danton, Robespierro and Marat A republic was established and on Jan 21 1793, after a Danton, Robespierre and 21 1793, at was established and on Jan 21 1793, at executed Treaties foreign countries were repudiated, and it was declared that France would help all Europe to overthrow their hereditary rules Thousands were put into prison Meanwhile the republican armies were winning success after success

In 1793 a Committee of Public Safety was th 1793 a Committee of Fubilic Safety was established, Robespierre being its dominating spirit, and the Reign of Terror began Hun dreds of aristocrats and politicians were sent to the guillotine On Oct, 16 1793, Marie Antoinette was executed and then the auto crats turned on one another Robespierre brought about the execution of Danton on April 5, 1794, and he himself suffered the same fate on July 28 The Reign of Terror came quickly to an end, but it was not until Oct, 1795, that the Directory was established, and the period described as that of the French Revolution was over

The number of books written on the period

is legion, but Carlyle's History of the French Revolution still stands out.

French RevolutionaryWars Wars caused by and contemporary with the French Revolution (7 r) On April 20, 1792. Louis XVI was compelled by his Girondist

ministers to declare war on Prussia and Austria Early in 1793 Britain Holland and Spain joined them in a coalition Fighting against tremendous odds, the French armles overran Holland in the winter of 1794 95, compelled Prussia and Spain to withdraw became an engineer, later studying the subject 17761 and 17762 and 17762 and 17763 and (1795), under the command of Napoleon Bona-parte brought Sardinia (1796) and Austria (1797) to submission The French attempt at an invasion of England was folled by the British victories at St Vincent and Camper down (1797) while Napoleon's eastern cam-Aboukir Bay (1798) and Smith's defence of Acre (1799) The formation by Pitt of a second coalition (with Austria and Russia) was fol lowed by the return of Napoleon to Europe the withdrawal of Russia (1800) and Austria (1801), and the Peace of Amiens (March, 1802)

Frensham Village of Surrey It is Farnham The common is used by the military, being convenient for Aldershot On it are three mounds called the Devil's Jumps οf Frensham is noted for its pends, used for boating, bathing and fishing. There are two, the larger covering 90 acres

Frere Sir Henry Bartle Edward Born at English Born at Clydach, Freeknocksbire, May 29 1815, he entered the Bombay Civil Service in 1834 In 1859 he was created KCB for services rendered during the Indian Mutiny Governor of Bombay, 1862 67, he was made a baronet in 1876 In 1877 he was appointed Governor of Cape Colony and as High Commissioner of British S Africa, he was deputed to arrange the confederation of the S African Colonies, but before attaining his purpose he was recalled in 1880, owing to a change of Government Frere died May 29, 1884 ment Frere died May 29, 1884

Fresco Method of painting upon a freshly prepared ground of stucco or plaster Mineral pigments are used, with size, volk or white of egg as a medium Sinco the pigments quickly combine with the freshly made plaster made plaster rapidity of work and consider able skill is necessary as retouching is im possible. This method was the usual form of mural painting before the use of oil pigments but if exposed to damp the colours were liable to fade Among notable frescoes are those in the monastery of S. Mark, Florence, painted by Fra Angelico

Freshfield Douglas William English traveller He was born April 27 1845 educated at Eton and Oxford April 27 1845 educated at Eton and Oxford and in 1870 called to the bar He was the first man to make the ascent in 1868 of Mt Kasbek in the Caucasus During the next 30 years Freshfield visited many parts of the world and made himself one of the foremost travellers of his age From 1893 95 he was President of the Alpine Club and from 1914 16 of the Royal Geographical Society His many writings include Lound Kangchenjunga 1903, and Lelow the Srow Line, 1923 A promenotory on the ceast of King Geograp V Land, discovered in 1911, has been named after him

Freshwater Watering place in the can the Yar 14 m from Yarmouth Some distance from the village is Freshwater Bay

Fresnel Augustin Jean French scien tist. Born, May 10, 1788, he became an engineer, later studying the subject of light. His work has been of great value in the development of lighthouses He introduced the lenses named after him and was regroupible for the first varieties. responsible for the first practicable revolving lights. He died July 14, 1827

Fretwork In architecture, decorative carved work for ceilings, consisting of geometrical designs in relief. In wood working, the term is used for the art of wood working, the term is used for the art of sawing out designs in thin, fine grained wood, such as satinwood, walnut, sycamoro, lime or three ply wood The essential tools are the saw, drill and bradawl The fretsaw consists of a light steel frame holding thin saw blades of varying grades of fineness

Freud Sigmund Austrian scientist Born at Freidberg, Moravia, May 6 1856, he was educated in Vienna and Paris His investigations into neurotic diseases early studies on hysteria and dreams led to his becoming Professor of the Therapouties of Neurotic Diseases and of Neurology in Vienna He explained such phenomena as in 1902 being influenced by repressions in the un conscious mind subconsciously seeking an outlet His method of approach, called psycho analysis, is propounded in many works for example, Delusion and Dream, Three Con tributions to the Theory of Sex, Totem and Taboo and in The International Journal of Psycho analysis, edited by him

Frey Norse god, also called Freyr He was the god of sunshine and fertility and possessed a famous sword In order to win the love of Gerda he gave away this weapon and so was conquered in his last fight.

Freyja In Norse mythology, especially in Sweden, the goldess of love and pleasure Sister of Frey and wife of Odin she traversed the heavens in a charlot drawn by two white cats, and received at her Asgard home the souls of half those slain in battle She is distinct from Odin's wife Frigga

Friar Member of a Roman Catholic Member of a roman mendicant religious order Friars are not monks, although they take vows four great orders are Franciscans or Gres Friars Dominicans or Black Friars Carmelites or White Friars, and Austin Friars or Hermits. Trinity or Red Friars, 1198, and Crutched or Crossed Friars, 1169, were actually canons regular

Friar's Crag Beauty spot on the banks of Derwentwater It is on the east side of the lake, about a mile from Keswick Since 1921 it has been the property of the National Trust Here is a Ruskin memorial

Fribourg Town of Switzerland It 20 m from Berne and is the chief town of the canton of Fribourg It has a university founded in 1889 Pop (1930), 21,557

Resistance to motion when two Fricton Resistance to moved bodies in contact are moved over one another Friction may be sliding or rolling the former being seen in the action of blide valves of engines, and the latter in wheels residence of Lord Tennyson A landmark is frictional resistance of a body at rest and is High Down, 485 ft high, on which there is a greater than the friction of motion of motio friction, when the body has been set in motion The use of lubricants tends to reduce friction

Daughter Frideswide English saint Daughter of Didan, coldorman of Oxford under Ethelbald she fled from a Merrian noble's importunities to Binsey and built an oratory She died about 735 Her well is still visited Becoming abbess of an Oxford numery, which was appropriated by Austin canons in 1004, she has been Oxford's patron saint since 1180 and was canonised in 1481 Her day, Oct 19, which was removed from the calendar at the Reformation, is still commemorated locally On the site of her chapel in Oxford, Wolsey creeted Christ Church cathedral

Friedland Town of Germany It stands on the Alle, 26 m from Königsberg, and is famous for the victory gained here by Napoleon over the Russians and Prussians, June 14, 1807 The battle was stubbornly contested but in the end the French drove their enemies in flight across the river Napoleon was present in person and Nev had a good deal to do with the French success. The Allies lost 20,000 men out of 55,000 on the field The French lost fewer out of 70,000 The battle was followed by the Treaty of Tilsit

Friedrichshafen Town and lake temberg, Germany It stands on the Lake of Constance It is a pleasure resort, but is chiefly famous as the headquarters of the Zeppchus, which were built here and made their trial flights over the lake. There is a harbour and

Friendly Islands Group of islands Ocean, now called the Tonga Islands They I't to the south cast of the Fiji Islands and cover 385 sq m. They are about 150 in number, which do not the property of the south cast of the Fiji Islands and cover 385 sq m. They are about 150 in number, which do not the south they groups. Subjudge in the divided into three groups. Nukualofa is the capital copra is the chief product. The islands form a British protectorate, having their own ruler, a king or queen, assisted by a parliament or legislative council and a privy council and advised by the high commissioner British coins and weights and mensures are used Tasman discovered the islands in 1643, but ther were named by Captain Cook, when he visited them in 1773 They remained in Netherlands Aurich is the chief town and dependent, until 1900 when they came under lithas an area of 1200 sq m.

British protection Pop (1931) 28 839

Frieze In architecture the portion of the

Friendly Society Voluntary organisation for the relief of members in time of old age, iliness, unemployment or other contingencies The root principle is that members contribute a certain sum, usually weekly, and in case of

a certain sum, usually weekly, and in case of need receive certain benefits.

In Great Britain friendly societies were started about 1790 and an Act authorising these was passed in 1793. Other Acts followed the last being in 1923 and now their activities are closely controlled by the state Euch society must be registered with the Chief Registration of Friendly Societies, who examines its recounts. His offices are at 17 N. Audley Street London W.1, and in Scotland at 19 Heriot Row I dinburgh.

The societies can issue insurance policies not in excess of £300 on the lives of their members, who can also insure the lives of their children and other dependents, but in the case

and other matters Members can dispose of sums not exceeding £100 by written nomination instead of by will The societies can hold property and they enjoy freedom from income tax Since 1911 they have had a good deal to do with the working of the National Health. Insurance scheme Trey do this work through approved societies formed by them

The term friendly societies is used sometimes only for the Friendly Societies proper, such as the Independent Order of Oddfellows, but sometimes for all societies that come under the eve of the registrar, such as those associated with trade unions, the very strong group known as industrial insurance societies. Those, known also as collecting societies employ paid collectors to visit the members and collect the premiums, usually weekly. The total invested funds of the friendly societies. amount to over £100,000,000

In Great Britain the largest societies are: Independent Order of Oddfellows (Man-chester Unity) 97 Grosvenor St., Chorlton-on-Medlock, Manchester

Ancient Order of Foresters, 17 Russell Square, London W.C.

Royal Liver Friendly Society, Pier Head, Liverpool

Hearts of Oak Benefit Society, Euston Road. London N W

National Deposit Friendly Society, Queen St London, W C

Independent Order of Rechabites, 1 North Parade, Deansgate, Manchester United Ancient Order of Druids Loyal Order of Ancient Shepherds, 132 High St, Choriton on-Medlock, Manchester.

Grand United Order of Oddfellows, 24 Devonshire St., MancLester

Friends, Society of Ser Society Ser Society of OF FRIENDS.
Friesland District of northwest Entrope Most of it is in the Netherlands, where it forms the province of Friesland a low-lying district bounded by the North Sea and the Zuider Zee on the north and west and covering 1250 so m I eeuwarden is the capital, and the province includes Ters-chelling and other islands Many of the people speak the Frisian dialect Last Friesland is in

Frieze in architecture the portion of the architerage and the cornice it forms a con tinuous band, often sculptured in low relief In the Doric Order the frieze is adorned with alternate projections (triclyphs) and recesses (metopes), the latter usually finely sculptured as seen in the famous Parthenon fraze. In the Ionic and Corinthian entablatures the fruze-is devoid of triglyphs, but is enriched by figures in relief. Other types of friezes were developed in later architecture

The use of the word has spread to a strip of ornamentation placed round the walls of a room, usually to harmonise with the paper

Frigate Originally a small swift undecked Meditermacan vessel using oars or sails Adopted by Portugal in the 16th and 17th centuries for naval purposes in the Indies, it became a fast three masted, full-rigged scouting and cruising craft, carrying children and other dependents but in the case from 24 to 50 guns on the main deck, or on a of children the amount is limited to £15. They raised quarter-deck and forecastle. The can also insure for burial expenses, sickness cruiser is the modern equivalent of the frigate. Frigate Bird Genus of tropical sea fowl, fregata, allied to the gannets The common F aguita has a small, slender, short-necked body, a straight bill with a hooked tip and a dilatable throat pouch Its swallow like tail and great wing spread make it very swift in flight It eats fish caught at the surface or snatched from other birds other birds

Frimley Village of Surrey It is 33 m London, on the S Rir It is in near proximity to Aldershot and three miles from Bagshot and is mainly residential Bret Harte is buried in the churchyard A was inaugurated here after the Great War Pop 16,472 colony for tuberculous ex-soldiers and sailors

Frinton Watering place and urban district of Essex It is 2 m from Walton on the Naze and 69 from London, on the LNE Rlv Of late it has become a fashionable seaside resort. Pop (1931) 2196

Frisian Islands of the west coast of Europe from Denmark to Holland Long subjected to marine crosion, their diminution, observed since Roman geographers first des cribed them, has been retarded in part by sand dunes carthen embankments and dy kes numes cartnen embankments and dykes There are north, east and west groups, respectively Danish, German and Dutch The N Frislans, mostly off N Schleswig, include Fano Sylt, Föhr, Amrum, Pellworn and Nordstrand The E Frislans include Norderney Borkum, Wangerson, Spiel ores and athere in the second of the second geroog, Spickeroog and others, all favourite summer resorts and bathing stations The W Frislans include Rottum, Schiermonnikoog Ameland, Terschelling Vileland and Texel, screening the Zuider Zeo

They derived their name from the Frisians, a Toutonic people inhabiting the neighbouring territory of Friesland early in the Christian era

Frit Imperfectly fused mixture of minerals from which glass is made Calcined until the silica begins to act on the bases, it awaits complete fusion Similar vitrifiable mixtures occur in the manufacture of artificial or soft paste perceicin
The name is also given to a small, black two

winged fly destructive to cereal crops, especially

Luropean barley (Chlorops fril)

Frith William Powell English painter Born at Aldfield, Yorkshire Jan 8, 1819, he studied at the Royal Academy Schools und first exhibited in the R A in 1840 He was elected A R A in 1844 and R A in 1869. 1852 His works represent historical and anecdotal painting executed with extra ordinary charm and attention to detail yet preserving a broad effect. His Derby Day in the National Gallery, London was his master plece, and many of his pictures achieved great popularity He died Nov 2 1909

Fritillary Word meaning a dice box it is used for a genus of flowering plants and a species of butterfly

See BUTIFRFLY

Frobisher Sir Martin English sailor Born in Yorkshire about 1535, he made his first voyage to Guinea before he was 20 years of age In 1576 he set out on the first of his through the sail of the first of his through the sail of the sai out on the first of his three unsuccessful voyages out on the first of his three unsuccessful voyages, in search of a northwest passage to China In 1586 he salled as vice admiral in Drake's expedition to the West Indies and in 1588 respectition to the West Indies and in 1588 Frogmore Itesidence near Windsor was in command of a ship that helped to defeat the Armada and so distinguished himself that he was knighted on board his own ship. He

took part in other expeditions and fights and died Jan 14 1595, as the result of a wound received during the attack on Brest.

Frodsham Market town of Cheshire on the L.M.S Rly Chemicals and cotton are manufactured Near the town the Weaver manufactured Near the town the Weaver falls into the Mersey and the district around is known as Frodsham Marshes Pop 3000

Froebel Friedrich German educational Born at Oberweiss bach, April 21, 1782, he studied at Jena and Göttlingen and in 1816 opened a school His induential book translated as The Education of Man, appeared in 1826 and from 1833 37 he spent his time training teachers at Burgdorf in Switzenland. In 1837 he started a school for in Switzerland In 1837 he started a school for young children in which his theories were put into practice He died June 21, 1852

Freebel held that children should grow up

naturally, in happy surroundings, that play was of the utmost important and that a child's natural creativeness should be encouraged His ideas were largely adopted in England and a Froebel Society was founded to forward them Its headquarters are at 1 Bloomsbury Square, London, WCI There is also a National Freebel Union at 18 Adam St., London, WC2

Frog Gonus of amphibians, (Rana) Of the tailless order, it also includes toads and is widely distributed in temperate and tropical regions. The eggs, usually laid in fresh water, adhere together in jelly like masses. They develop into tailed, legices tadpoles which breathe aquatic air through gills. There is then a gradual growth into the four legged tailless adult form with lungs for breathing atmospheric air. Through soft skins which are periodically shed entire, moisture which are periodically shed entire, moisture is imbibed. The tongue, rooted in the front of the mouth, is sticky and used for selzing the slugs and insects upon which it feeds

Besides the common R lemporaria, the edible R esculents and the N American bull frog, are the large guppy frog, 81 in long of the Solomon Islands and the gollath frog, 11 in of the Common College and the gollath frog, 11 in of the Cameroons Other genera include horned, flying, peeping, pouched and tree from

Frog In engineering, two short pieces of rail They are joined together to form an angle between the railway lines at a railway crossing or at a point where the rails lend to a siding, serving to guido the wheels of a train from one set of lines to another When used at a crossing the contrivance is termed a cross frog

Frogbit Small, floating aquatic herb (hydrocharis morsus ranae)
Native to Furope and N Asia, it has roundish, kidney shaped leaves reddish roundish, kidney shaped leaves reddish beneath, which support the male and female flowers on separate plants. The bulbs sink to the pond floor in the autumn, rising to the surface again to throw out leaves in the spring

Frog Hopper Family of homopterous Frog Hopper Family of homopterous (Cercopidae)
The greyish or greenish adults have four stift opaque wings and hind legs strengthened for vigorous leaping They constantly prick the young leaves for sucking The pricks enlarg and wither the leaves The larva surround themselves with white froth See Cuckoo Silt

over the tomb of Prince Albert and here the queen herself was buried in 1901. The building

is open to the public at stated times

Froissart Jean French historian Born at Valenciennes about 1338, he went to England at the age of 18 and entered the household of Edward III's queen, Philippa After a leave of absence that lasted five years, he returned to her in 1361, pearing with him a rhymed chronicle of the wars of the time, and was made her secretary. He travelled considerably through England, France, Flanders and Italy, gathering material for his great history. After Philippa's death he became cure of Lestines in Flanders, and later Canon of Chimay Again in 1386 he travelled, visiting Gaston Phoebus, Count of Foix, and then England once more He died about 1405 at Chimny

Froissart lives to-day in his Chronicles, a history in four books of the main events of Western Europe from 1325 to 1400 It is one of the greatest historical works of that period, being an invaluable and vivid description of the life of his time It was translated into English by Lord Borners in 1525 and there are

several later translations

Frome Market town and urban district of Somerset It is on the River Frome, 24 m from Bristol, on the GW Rly The industries include printing and brewing, woollen cloth is manufactured, but this is less prosperous than formerly, there is also an agricultural trade Pop (1931) 10,738

Fronde French word meaning a small sling and used for the civil war that took place in Franco between 1648 1653 The first Fronde was due to a quarrel between Mazarin and the Parliament of Paris about Some of the leaders of the parliament having been put into prison, street fighting broke out. Helped by troops under the great Conde, Mazarin put down the rising and peace was made in March, 1649

The second Fronde was a rising in 1652 53 Conde and Mazarin had quarrelled and the former, with other princes, raised a revolt. He was soon victorious and for a short time master of Paris The fighting, however, was chiefly in the south-west of the country and in the end Mazarin put down the insurgents and

nttnined his object

Frontenac Comte de French statesman Louis de Buade was born in 1620, of a family holding land in Bearn He became a soldier and in 1672 went to Canada as governor He remained there until 1682 and was again governor from 1689 Frontenac died in Quebec Nov 28, 1698 His harsh methods of rule made him unpopular, but he ranks as one of the makers of Canada

Term used for the deposition of small ice crystals on exposed on exposed objects on or near the ground Sometimes known as hoar frost it is due to the freezing of water which condenses out of the atmosphere on objects which have a temperature below that of freezing point. When prolonged that of freezing point. When prolonged severe frosts may have a harmful effect upon vegetation, and even a short frost, coming in late spring or early autumn may injure crops Frost plays an important part in the disintegration of rocks and the formation of soils.

mausoleum here was built by Queen Victoria Froth or Foam The collection of small over the tomb of Prince Albert and here the Froth bubbles caused by fermentation or

by boiling or agitating a liquid

The Ancient Order of Froth Blowers was a charitable organisation formed in 1923 Its song was "The more we are together, the happier we shall be"

Froude James Anthony English historian Born at Dartington, Devon, April 23, 1818, he was educated at Westminster School and Oricl College, Oxford, becoming a Fellow of Exeter College in 1842 His first work, Shadows of the Clouds, appeared in 1847, under the pseudonym Zeta, then came, in 1849, The Nemesis of Faith, which was widely read, but, like most of his books. was widely read, but, like most of his books, raised controversy. His greatest work is his History of England from the Fall of Wolsey to the Spanish Armada, 1856-70, a fine piece of writing but distinctly unreliable. He also wrote Lectures on the Council of Trent and other books dealing with events of the 16th contury. Other works include The English in Ircland, Oceana, or England and her Colonies, the most popular of all, Short Studies on Great Subjects and The Life and Letters of Erasmus Froude was very intimate with Carlyle, but much controversy followed his books on Carlyle and his wife In 1892 Froude was chosen Professor of Modern History at Oxford, but he died shortly afterwards, on Oct 20, 1894

Part of a flowering plant that contains the seed, especially such Fruit

as is used for human food

It may be divided into tree fruit, such as apples, and bush fruit or small fruit, such as strawberries It may also be classified as pip fruit, e.g., oranges, apples, pears, melons and mediars, stone fruit, e.g., plums, oherries, apricots, peaches and dates, berries e.g. currants, strawberries and raspberries, or shell fruit, e.g., walnuts. Grapes belong to the fruit, cq, walnuts Grapes belong to the berry class, bananas and pincapples are allied to it. It may further be divided into fresh fruit which will only keep for a few days and preserved fruit, which may be either tinned,

bottled or dried, such as figs and raisins
Fruit is a popular and important article of food, especially in hot weather and hot climates It contains much water, but also acids which are good for health Sugar is an important content and many fruits, the orange for in-stance contain vitamins Fruit is essential for good health, and it plays a great part in

keeping the body in good condition

The grape is cultivated on an enormous scale in the warmer part of the world Oranges are largely grown in the Mediterranean region for export California, South Africa, British Columbia and Australia are great fruit-growing countries much of it being tinned export Figs, raisins and other fruits are dried and exported from Greece and neighbouring lands, also from Australia Great Britain imports much tinned and dried fruit, but of the hardier fruit a good deal is produced at home, especially in the countles of Kent, Worcester and Hampshire In all, some 91 000 acres are under small fruit In addition there are many apple and cherry orchards and in Somerset, Devon and Hereford a special kind of apple and company or making kind. of apple and pear is grown for making elder and perry. The blackberry still grows wild on and perry a considerable scale

To encourage the growing of fruit at home Frostbite is the name given to a localised various measures have been adopted by the inflammation and gingrene of the tissues, Ministry of Agriculture, such as the establishment of stations for grading and packing of

fruit Much of it is bottled, so that it can be kept for winter use and a great deal is made into jam There are factories for canning fruit at Wisbech and Paddock Wood in Kent Certain fruits, among them apples and pears, must lear the national mark to show that they have been grown at home Dried fruits im ported from the Empire are given a preference as regards import duties

A station for research into fruit storage problems has been opened at East Melling, Kent, and experiments have shown that it is

Kent, and experiments have shown that it is possible by the use of carbon dioxide to keep fruit fresh for a long period

The chief English market for fresh fruit is Covent Garden. Thence it posses into the shops of the fruiterers or greengrocers The Fruiterers' Company is one of the London livery companies

livery companies

Fry Charles Burgess English athlete
Was educated at Repton, Oxford, where he
excelled as an athlete He represented his
university at cricket athleties and Association
football and held the world's record for the
long jump Afterwards he played cricket for
Sussex and for years was one of the leading
batsmen in the country In 1900 he scored
3147 runs and he played for England on
several occasions Fry devoted his energies to
training boys for the see and conducted an
establishment at Hamble He has written
books on cricket and on the League of Nations,
and has come forward as a Liberal politician and has come forward as a Liberal politician

And has come forward as a Liberal politician

Fry Elizabeth English prison reformer to Born in Nortolk, May 21, 1780, the daughter of John Gurney the Queker hanker, in 1800 she married Joseph Fry and settled in London In 1813 she visited Newgate Prison, and, horrified by the terrible conditions, at once set to work to reform them An association was started and under her guidance a great deal of good was accomplished Mrs Fry, who brought up a large family died Oct. 12, 1846, at Ramegate

The family to which Joseph Fry belonged is known for its association with the cocousiness in Bristol This was founded in the 18th century by an earlier Joseph Fry, who died in 1787.

Fryatt Charles English sailor He was born at Harwich, Dec 2, 1872 and entered the mercantile marine Whon the and entered the mercantile marine. When the Great War broke out he was captain of the GER steamer Brussels, plying between England and Holland. On March 28, 1915 he succeeded in ramming a German submarine, and the following year was captured by a German destroyer, tried by court martial at Bruges and shot, July 27, 1916. Later his body was brought to England and buried at Dovercourt

Fuad King of Egypt. A son of Ismail, the Khedive, he was born in Calro, March 26, 1868 In Oct. 1917 he became Sultan of Exypt in succession to his brother Hussein, and in 1922 he was made the first king of the country

Fuchsta Genus of flowering shrubs and small trees, named after the 16th century botanist, Leonhard Fuchs There are some 50 species, mostly natives of Mexico and the Andes region Since Kew gardens first received F coccinea in 1788, many other species have reached Britain, yielding hardy and half hardy varieties, including dwarfs with crimson, violet, coral, cream and white blooms

Fuchsine Coal tar derivative also known consists of resariline hydrochloride and is an important direct dyestuff for wool, silk and leather, and with a mordant, for cotton It occurs as brilliant iridescent crystals which form a deep red solution in water and are also very soluble in alcohol

Fuegians S American Indian tribes
The Yahgans of the centre are a stunted
primitive race who use wind shelters, and bone
and shell implements. The tail Onas of the
East are descendants from Patagonian immigrants, the western Alakaluis come from
Chilean Araucarians.

Fig. Any combustible Technical

Fuel Any combustible materials used as largely of some form of carbon or of hydrocarbon Coal is the most important solid fuel, but other carbonaceous material such as peat, wood, straw and vegetable waste are largely used. Petroleum, the chief liquid fuel, is the source of many fuel derivatives, and in addition oils distilled from coal, shale and other sub-stances are used in oil engines of the Diesel

type Gaseous fuels include natural gas, coal gas, water gas producer and blast furnace gases Of recent years much has been done to gases Of recent years much ans been done to use fuel resources, particularly coal in this country, more advantageously Pulverised fuel is largely replacing ordinary coal, and extensive plants have been erected for the carbonisation, under careful control, of that material whereby the maximum quantity of certain desired products can be obtained attempts have been made to commercialise the production of refined cell fuel (patrol) from Attempts have been made to commercialise the production of refined oil fuel (petrol) from coal, and recently a mixture of oil and finely powdered coal has been used with success. The government has a Board of Fuel Research and maintains at Greenwich a Fuel Research station, which has laboratories at Stoke, Glasgow, Nottingham, Newcastle on Tyne and clsewhere. In 1931 a world fuel conference clsewhere In 1931 a world fuel conference met in London

Fuenterrabia City of Spain Bldas son, near its mouth, 10 m from San Schastian, on the rallway line from Paris to Madrid The old town, still surrounded by its walls has a castle and other buildings dating from the Middle Ages Near it is a new town, a fishing centre and a watering place Pop 5000

Fuentes d'Onoro Yillage of Spain, dad Rodrigo and near the frontier of Portugal Here, on May 3 5 1811, a battle was fought between the British and the Fronch Welliagton was trying to take Cludad Rodrigo and a Fronch army came to relieve it. The result was indecisive but the French had somewhat the better of the encounter

Fugger Famous German family of traders Johann Fugger became a banker and merchant about 1390 The business was carried on by his sons grandsons and other descendants and its members became enormously wealthy They had interests all over Lurope and later in America, and lent money to the I mperor Charles V and other rulers. There are memori-

als of the Furgers in Augsburg (gr)

Fugue Form of musical composition

Its essential condition is the de velopment of a melody from four to cight bars in length, announcing the subject. This is done by each voice, or part, in turn, being immediately taken up by another, which is called the answer To this the first part supplies an accompaniment J S Bach was a master of the fugue Handel and Mozart also made good use of it.

Fugue is also used as a psychological term, signifying a "wandering attack," due to the activity of the unconscious mind

Lostiest mountain of Japan Fujiyama Situated on the main island, 60 m. south-west of Tokvo, overlooking Suruga Bay, it is 12,395 ft. high An extinct or quiescent volcano, it has a crater 2000 ft across and 500 or 600 ft. deep, which is now filled with water The last cruption occurred in 1707 It is a sacred mountain and many Buddhist pilgrims ascend each August to pray at rockbuilt shrines It is also known as Fujisan

Fulda City and river of Germany The city stands on the Fulda, being in the Prussian province of Hesse-Nassau, 69 m from Frankfort There are some industries and an agricultural trade The city had a university from 1734 to 1804 Fulda is famous for its abbev, founded in 744 by Boniface and once one of the richest in Europe Pop 17,500

Fulgurite Name given to a vitreous tube in sand due to the action of lightning in fusing the loose sand grains together These tubes are sometimes more than two inches in diameter and in the blown sand of Cumberland extend to a depth of 40 feet and near Macclesfield to 22 feet

Fulham One of the 28 boroughs of the County of London It lies along the Thames on the north side with a very long frontage to the river and includes the district of Parson's Green The chief building is Fulham Palace, the residence of the bishops of London The courtyard dates from the 15th century, the main building from the 18th Part of the grounds, Bishop's Park, is open to the public There is a large power station here In the borough are the football grounds of the Chelsea and Fulham clubs

Fulham Ware is a fine stoneware which was first made at I ulham by John Dwight. It is remarkable for the brilliancy of its colour Pop (1931) 150,940.

Fuller Name given to one engaged in fulling or milling woollen cloth.

The process of fulling is carried out on heavy.

The process of fulling is carried out on heavy materials for overcoats and suitings to cause the yarns to shrink and felt together. The material, after being soaked in soap and water, is twicted into a rope and passed through vertical rollers, and whilst still in a wet state. it is stored to complete the shrinkage along both

the warp and the west Fuller Thomas Fuller Thomas English divine and Northants in 160%, he was educated at Cambridge He was chaplain to the king's forces during the Civil War and held in succession several livires, including that of Cranford in Middlessy when he is being the civil was chaptered in the civil was and held in succession several livires, including that of Cranford in Middlessy when he is being the civil was a constant. Middle ex, where he is buried but he is chiefly known by his books. He wrote The Church History of Britein, but his wit is seen to better advantage in The Horlings of English. He died in London in Am. 1661 died in London in Aug., 1661

Fuller's Earth Soft dull, greenish-brown or green variety of clay It consists of impure hydrous silicate of alumina Unlike ordinary clays, it falls to a powder in water, lacking plusticity. It is

not so much to-day as formerly, also in oil filtration. It is used medicinally for irritated skins. It is worked at Nutfield, in Surrey, also near Bath and at Woburn.

Fulimnate Word meaning to explode and used in that sense by

scientists Fulminate of mercury is a powerful explosive used in percussion caps and detonators Fulminic acid is found with mercury and other

metals, but never alone

Fulton Robert. American engineer, born in 1765, in Pennsylvania He worked on canal improvements and then conceived the idea of using steam engines for driving ships He worked on this in Paris and eventually in 1803 built a small steamship on the Seine He then returned to America and built another which he called the Clermont This and its successor, the Fullon, made successful vovages on the Hudson, and their invention marks a stage in the history of the steamship Fulton died Feb 24, 1815

Fulwood Liban district of Lancashire It is just outside the borough of Preston and its industries are those of that

town Pop (1931) 7387.

Method of disinfection Fumigation by the use of fumes or gases In cases of contagious diseases, fumigation is carried out for disinfecting the sick room and the clothes etc., of patients, and may be done by means of burning sulphur, often in the form of a sulphur candle which gives off sulphur dioxide Paraform a solid form of formaldebyde, is a powerful furnigant for rooms

Furnigation is also resorted to by gardeners for destroving insect pests upon plants For this smoke, sometimes tobacco smoke, is used

The extremely poisonous gas, hydrocyanic acid, is used for fumigating ships' holds and also for fruit trees, especially in America, and the vapour of carbon disulphide is used to fumigate maize, grain elevators, etc

Small annual plant (Fum-Fumitory mon in fields and waste places. The rose-coloured flowers are borne in loose, erect spikes upon slender brittle stems bearing much div ded leaves The plant has a somewhat bitter saline taste and was used formerly as a med cinal herb in eye and skin diseases

Funchal Capital of the Madeira Islands situated on the south coast of Madeira Is It is a salubrious winter resort Steamships enchor in the roadstead, which is protected from all but south winds There is a substantial trade in coal and wines It has a broadcasting station (24 M , 005 kW) Pop 19,000

Roligious Fundamentalism movement in the U.S.A. It arose about 1910 when a number of Christians in Tennessee and other states decided to require from those professing their faith the acceptance of the fundamental doctrines of Christianity, not only the virgin birth, the atonement and the resurrection, but the verbal inspiration of the Bible

Fundy Bay of Opening of the Atlantic Ocean off the coast of Canada It penetrates about 100 m into the land and divides Nova Scotia from New Brunswick. It receives the St John and other rivers The bay is divided into two parts called Chiqueto Channel and Minas Channel Grand Manan Island stands at the entrance of the bay, which is noted for its high tides still used as an absorbent for grease, although is noted for its high tides

Fungus Large group of the lowest division of collular plants, the thallophyta They are distinguished by an absence of chlorophyll and starch and the special characters in their structure and life history The plant body, or mycellum, consists of a much branded mass of filaments, or hyphal, sometimes forming falso tissues, the cell walls being composed of fungus collulose. In their putaltion, malls of the production of the collusions of the collusions of the collusions of the collusions.

In their nutrition, unlike green plants, fungiobtain their food materials from dead or living organic matter, and consequently some are parasites, such as rust and mildens others are saprophytes, living on decaying matter, as represented by teadstools and mushrooms Fungi have no flowers, but reproduce by asoxual spores or, in some by a sexual process Some are edible, especially the mushroom, others are highly poisonous

Fur Undercoat of short, fine, soft hair intermingled with longer overhair, found on the skin of certain animals. It is It is used for clothing in very cold countries and largely used elsewhere in cold weather, especially by women The snimals chicfly valued for their fur are the musquash, chinchilla, ermine skunk, mink, wolverine, sable, beaver, seal and bear The skins of the mole, fox, rabbit and

equirrel are also used

Most of these animals are caught in the wild state in Canada and Siberia and to a lesser extent in Australia, but foxes are now bred for the purpose on special farms After being taken the skins need careful preparation The chief fur market is London The Hudson Bay Co has for over 200 years been engaged in the fur trade in Canada which was long a source of livelihood to the Indians

Furies The (Latin, Furiac) Goddesses of ancient Greece and Rome They are represented as snake haired and it was believed that they were sent from Tartaris to punish the crimes of perjury murder, etc. They are also known by the Greek names Erlnycs and Enmenides

Furlough Leave of absence The term denotes specifically the absence from military duty of the rank and file by permission of the commanding officer for periods exceeding six days on full pay passes may be endorsed with permission to wear civilian clothes

Furnace Structure for the production of heat it is employed in chemical and metallurgical processes and in steam bollers Many kinds of furnaces are ir use, from the simple hearth to the electrical

use, from the simple hearth to the electrical furnace. Usually the inner part of the structure is lined with some refractory material while the outer part is strengthened to give stability. Combustion depends upon a supply of air in the hearth type this is usually a natural draught, whilst in others some form of forced draught is necessary, i.e., in the shaft furnace of the blast and cupola types. In the rever heratory furnace for roasting ores the draught is carried over the heated material. The crucible, muffle and retort furnaces are of the crucible, muffle and retort furnaces are of the Houlle have given closed vessel type and are used in many styles of furniture

Funen Island on Fyen It is in the Band between Jutland and Zealand, with the Little Belt on one side and the Great Belt on the other 1130 sq m in area its soil is fortile and agriculture flourishes. The chief river is the Odense, and Odense is the name of the chief town

Fungus Large group of the lowest division of collular plants, the manner of collular plants, the manner of the LMS system. Furness Covers about 250 sq m

Furness Baron English shipower Born April 23, 1852, Christen and in 1877.

Furness Baron English shipowner Born April 23, 1852, Christopher Furness entered business life and in 1877 established at West Hartiepool his own line of steamers This became the great firm of Furness Withy & Co, and later he was associated with others of the large industrial ndertakings of Durham in 1895 ho was knighted and in 1910 was made a peer 11c had been Liberal M P for Hartlepool, 1891 0. and 1900 10 He died Nov 10, 1912 His son, Marmaduke, who succeeded to his title, was made a viscount in 1018

Furness Abbey Ruined abboy in shire Near Dalton in Furness on the L.M.S. Rly, it was founded in 1127 and was, until the Reformation, a great and wealthy Cl terclan abbey The parts remaining are considerable and preservation work has been done since they became national preparts in 1990 since they became national property in 1920
The remains include part of the chapter house
the cloisters and the chapter
Furniss Harry
Writer
He was born at Wex

FUITILSS writer He was born at Wex ford in 1854 and came to London at the age of 19 In 1880 be joined the staff of Punch to which paper and The Illustrated London News he contributed illustrations for many years As a humorous lecturer he toured America and Australia, and in 1894 founded a weekly paper, Lil a Joko He also illustrated the works of Dickens and Thackeray and wrote a number of books, including Confessions of a Caricalurus, 1901 He died Jan 16, 1925

Furniture General term denoting equip ment It designates specifically the movables and fittings disposed for use or ornament in a dwelling or other building

From its prehistoric beginnings the development of furniture has involved incessant change in material, form and use The convenience of raised surfaces for the various demands of work and repose, and of enclosed receptacles for holding things, was recognised at the outset. Hence the history of style gathers round that of the table stool, bet stead and chest. Ornament was utilized from the first as in the carved or moulded animal feet of Babylonia and Fgypt A 20th century development is the much greater use of glass and the introduction of steel tubes in place of

Of furnishings in Anglo Saxon, Norman and Mediaeval England, including wall hangings and floor coverings little remains. The fur niture styles of the modern world date from the Renaissance The revived interest in period furniture concerns chiefly the sequence characterised as Tudor Jacobean, Stuart, Queen Anne Georgian and Victorian with their continental contemporaries, notably Louis XIV XV, and XVI Directory and Empire Some produced outstanding craftmen e.g., Chippendale Sheraton, Adam and Boulle have given their names to distinctive The furniture making industry is a large one it is turned out by mass production, but the better pieces are made by hand, often being Regimen copies of old models

There are fine collections of old or period furniture in the Victoria and Albert Museums as well as in the Wallace Collection The selling of antique furniture is a large business. many shops existing for this purpose, though

not all the pieces offered are geniune

Furnivall Baron English title Created in 1295 for Thomas de Furnivall, it has since been held by several families. Thomas Noville and John Talbo gained the title through marriage Late John Talbot became Larl of Shrewsbury which title was held by his successors until 1616 After a period of abeyance it descended to the daughter of the 7th earl in 1651, who marrying the Earl of Arundel, caused it to be linked with the Howard family Again in 1777 it became extinct, until in 1913, it was revived for Mary Frances Katherine Petre, daughter of the 14th Baron Petre, and a descendant of the Howard family

Wilhelm Furtwaengler German in Berlin, Jan 25 1886, the son of Adolf Furtwaengler (1853-1907) the archaeologist he early gained a musical reputation and while vet a voung man conducted operas and concerts at Breslau, Zurich, Münich, Strasbourg Lubeck, Mannhein, Berlin, Frankfort and Vienna In 1922 he became Director of the Nammen, Dermi, Frankler of the Vienna In 1922 he became Director of the Berlin Philharmonic Concerts, and from 1922 to 28 directed Gewanhaus concerts at Leipzig He conducted the Philharmonic Corchestra in New York, 1925-27, and Philharmonic concerts in Vienna, 1927-30 He has also conducted in London

Furze Genus of spiny, leguminous plants (Ulcx) They are native to central and western Europe and north-western Africa The common species (U europacous) also called rorse or whin, grows from 2 to 6 ft in height, I as terminal spines besides branched spines on the stems and bears sweet-scented, twolipped vellow flowers The young shoots serve as fodder, the old stems as fuel

Fusan Town and scapors of Roles end stands at the south-eastern end of the peninsula and is connected by railway with Scoul It has a good harbour with ample Town and scaport of Korea accommodation for modern shipping and under Japanese rule Its trade has developed greatly Pop (1930) 113 000

Fuse Device for igniting an explosive charge, such as a hollow tube filled with combustible material one form being the quickmatch used for instantaneous firing heavy blasting operations, the charges are now usually fired by electricity

The term is also used for an electrical safety device for breaking a circuit automatically

when the current becomes too heavy

Fusilier Name first given to a soldier who carried a fusil, which was a light mustet fitted with a filmt lock. The name first appeared about 1640 and in the 17th companies of fusiliers to protect the artillery Later the practice was abandoned and with the change in the nature of firearms the fusiliers became ordinary infantrymen. The name is retained in the British and other armies, and certain regiments are still called

fusiliers In the British Army these are distinguished by a bearskin cap. The oldest of them is the Royal Fusiliers (City of London Reciment) Others are the Royal Scots Fusihers, the Royal Inniskilling Fusihers and the Royal Welch Fusihers The Royal Munster and Royal Irish Fusiliers were disbanded after the World War

Fusion Process of melting a solid such as metal by the application of heat The melting is accompanied by an absorption of heat, which is converted into kinetic energy, and by a change in volume The degree of fusibility of metals varies greatly, from the melting point of solid mercury (-39°C) to that of tungsten (3267°C)

Fust Johann. German printer A gold-smith of Mainz he entered into partnership with Gutenberg in 1450, to found a printing press, which he financed In 1455 they separated, and Fust set up another works with Peter Schöffer The chief production of the first press was the Mazarın Bible, and of the second, a Latin Psaller Fust died of the plague in Paris in 1466

Fustian Stout cotton fabric used chiefly for men's wear It may be a plain twilled jean or a short-napped, velvet-like cloth, also called cordurov, moleskin or velveteen Similar cut fabrics were made of wool under Edward III, and early forms had cotton wefts and linen warps. It is produced also in Spain and Italy the fustian of Naples being renowned. It apparently of Naples being renowned. It originated at Fustat near Cairo

Future In business a word meaning goods not yet on the market There is a good deal of buving and selling of futures especially in N America principally in cotton and wheat, though Liverpool is the largest centre for "futures" in the former commodity. They are, of course, highly proportions. speculative transactions

Futurism Form of art which arose in Italy about 1910. It was due to the influence of the poet F. T. Marinetti, upon a group of Italian artists, amongst whom were Balla Boccioni, Carra, Rossolo and Severina. Marinetti and his disciples repudiated the older ideas of art, and claimed that the new movement introduced into painting a dynamic state, whereby a picture not only depicted a scene, but also indicated the emotions and ideas of the artist together with the thoughts and mental state of the person portraved An exhibition of futurist paintings was held in Paris in 1911 and in person portraved London in 1912

Fylde District of Lancashire Situated between the estuaries of the rivers Ribble and Wyre, it is mainly an agri-

cultural area

Fyne Inlet of Arryllshire It extends SW and S for 44 m from the loch head, 6 m above Inversary, to the Kyles of Bute Vessels using the Crinan Canal traverse it to Lochgilphead Its brunches form Loch Tarbet, Loch Gilp, Loch Shira and Loch Gair. Loch Fyne herrings fetch high prices in the fish markets.



main British force was being landed on the beaches of Gall ipoll, the Australian and New Zealand corps landed near Gaba Tepe in order to create a diversion After flerce fighting

the hill was captured from the Turks GALLIPOLI

Gabelle French word for a tax on any commodity It was gradually inited to the tax on salt. Imposed in 1286 and made permanent by Charles V (1364 80), its unequal incidence made it unpopular and the grievance rankled until its abolition during the Revolution in 1790 In some bastern countries the word is still used for tax or salt. a tax on salt

Gabes City and port of Tunis It stands of the Mediteranean Sea, and is about 200 m from the city of Tunis Nearby are enormous salt lakes Its ancient name was Tacape Nearby are enor

Pop 20 000

Pop 20 000

Gable Pointed or triangular part of the Gable outer wall of a building at the end of the steeply pitched roof of the Gothic style. It corresponds to the pediment of classical architecture. In many examples of secular Gothic buildings, in Belgium for example, the gable end of the roof is adorned with numerons minnels and ornamented. with numerous pinnacles and ornamented barge boards are added to the decorative design Fine examples of ornamented gables

are seen also in Tudor buildings
Gaboriau Emile French novelist. Born
he was the originator of a certain type of
sensational crime fiction. His first book of this kind L Affaire Lerouge, 1866, was in stantly successful and was dramatised in 1872 Other works are Le Dossier No 113 1867, and Monsieur Lecoq 1869 He died Sept 28, 1873 His imaginary detective, Lecoq, was the first detective of fiction

Gabun River of Africa also a French colony there. The river falls into the Atlantic Ocean by an estuary 40 m long and 10 m wide Near its mouth is Libreville the capital of the colony which is one of the four divisions of French i quatorial Africa Its area is 104,320 sq m Pop (1931) 387,283

Gad Name of several Biblical characters— (1) Jacob s seventh son by Zilpah Leah s handmald He founded an Israelitish tribe localised chiefiv in Glicad David s eleven men of Gad were traditionally famous (1 Chron xxi) (2) Prophet who was David searly companion and counsellor (2 Sam xxiv)

Gadara Ancient town of Palestine Situ nted 6 m SE of the Sea of Galliee in the Syrian Decapolis it was a Greek city Captured by Antiochus III in 218 BC it was rebuilt by Pompey, 64 63 BC Its ruins adjoin the modern village of Umm Kais

Gad Fly Two winged insect labanus Aug 2, 1788

Gainsborough's paintings show a remarkable diplera It is about 1 in in length, is of a libhtness of touch and luminosity of colour blackish colour above and reddish beneath He is remarkable both for his portraits and his and on the sides of the abdomen Its larvae landscapes. Of the former may be mentioned,

ABA TEPE Hill in live in damp soil The female gad fly is blood sucker, and is particularly troublesom to horses and cattle in hot weather

Gad's Hill District in Kent It is 21 m Gravesend road, and was the scene of Falstaff's encounter with "rogues in buckram" in Shakespeare's play, I King Henry IV, in which a character called Gadshill appears Charles Dickens lived in Gad's Hill Place, near the Sir John Falstaff inn

Gaekwar Hereditary title borne by the rulers of Baroda, India It comes from a native word meaning cow, and is the family name of the dynasty that has ruled since about 1720

Gael Member of the Gaelic branch of the Celtic speaking peoples. The Gaels, who arrived in Scotland and Ireland from the continent of Europe used an older form of speech characterised by the Q sound, which survives in Erse or Irish Gaelic, Scottish Gaelic, and Many A resear form project B. Gaelle, and Manx A younger form, using P, appears in Weish, Cornish, and Breton which are not Gaelic tongues

The term Gaelle is used for the national speech, literature customs, etc that are peculiar to the Gaelle peoples in Ireland and the Scottish Highlands In both countries efforts are being made to keep alive the language and to maintain, or revive, an interest in Gaelle things, and societies exist for this purpose Some of the universities have professorships and lectureships in Gaelic In Ireland the government of the Irish Free State has done a good deal to make kree or Irish Gaclic a compulsory language In Scot land 7 069 people speak Gaelic only

Gaff Light form of fishing spear or landing hook. It consists of a stout rod ending in a fork or hook and is employed in salmon fishing although its use is prohibited at certain seasons on the Tweed and other Light form of fishing spear or landing rivers

The term gaff is also applied to a kind of boom or spar used for extending the upper end of a sail and to the topsails above the mainsail

Gainsborough Market town urban of Lincolnshire It stands on the Trent, 18 m from Lincoln and 146 from London, on the L N E Rij Machinery is manufactured and there is a good deal of trade in agricultural produce by canal or along the river. A fair is held twice a year. An aerre of bore comes is held twice a year. An aggre of bore come, up the frent here twice a day. Gamaborough is described as S. Oggs in George Eliots. Mill on the Floss. Pop. (1931) 18,684

Gainsborough Thomas English painter Born at Snd bury Suffolk, in 1727, he was self-educated until at the age of 14 he came to London In 1745 he married and settled at Ipswich He moved to Bath in 1709, and there success fully princtised poterait painting but in 1774 returned to London and took a house in Pall Mall In 1768 he was elected an original member of the Royal Academy He died Aug 2, 1788

The Market Cart and The Harvest Waggon, and of the latter, Mrs. Siddons and The Blue Boy (which latter in 1921 was sold by the Duke of Westminster for £150,000)

Gairdner Lake of Australia It is in the south of the state of South Australia, and is a salt water lake It is about 100 m long, and its extreme breadth about 40 m

Gairloch Opening of the Atlantic on the west coast of Scotland It runs for about 6 m into the county of Ross and Cromarty At its head is the village of Gairloch, a tourist resort

Galahad Knight of King Arthur's Round Elaine, he was resred by nuns, and knighted on his arrival at Camelot on the eve of Pente cost He set forth on the quest of the Holv Grail, and to him alone, as the knight of purity, was vouchsafed the vision of the mystic current from which Christ draph of the Leat cup from which Christ drank at the Last Supper Malory and Tonnyson tell the story, and G F Watts has painted him

Galapagos Group of volcanic islands in the Pacific They belong to Ecuador, and were officially renamed the Colon Archipelago in 1892 Situated on the equator, about 500 m west of Ecuador, the 13 islands bear the names of English bucca-neers, including the largest, Albemarle, neers, including the largest, Albemarle, 1650 sq m. and Charles, the oldest settlement Albemarle, The fauna and flora contain many peculiar species Giant tortoises formerly abounded, Galapagos being the Spanish for tortoiso Cattle and fruits introduced by early colonists are now naturalised Guano, sulph products, and archil are exported is 2868 sq m. Pop (1931) 2000 Guano, sulphur, sugar The area

Galashiels Burgh and market town on Gala Water, 33 m from Edinburgh, on the LNE Rly It is a centre of the woollen industry, its tweed being famous Pop (1931) 13,102

Galatea In Greek legend a sea nymph, a daughter of Nereus and Doris She loved a beautiful Sicilian youth Acis, son of Faunus, who was slain by his unsuccessful rival, the Cyclops Polyphemus

Galatea was the name given to an ivory statue fashioned by Pygmalion, the soulptor king of Cyprus, who successfully besought Aphrodite to endow it with life

Galatia Old name of a district in Asia Galatae, a Gaulish people who settled therein about 300 BC They came soon under Greek influence, and later some of them became Christians At the time of Augustus, Galatia became part of the Roman Empire

Galatians Epistle to the Ninth book it the apostle Paul vigorously deplores the wholesale defections among his Galatian readers in favour of

Galatz Town and river port of Rumania Danube, about 80 m from Bucharest It has large docks Pop (1930) 101,148

Gala Water River of Scotland It rises in Midlothian, and flows S from the Moorfoot hills, for 21 m through Roxburghshire and Selkirkshire It joins the Tweed just below Galashiels

Galba Roman emperor Servius Sulpiclus Galba was born in 3 Bc, and became a soldier He held many important positions, being practor in the year 20 and consul in 33, he was governor of Gaul, later governor of Africa, and later still governor of Spain, showing ability both as soldier and administrator. In 68, on the murder of Nero, his troops declared him emperor, and he marched to Rome He was murdered in 69

Galen Greek physician He was born about AD 130 at Pergamum, and studied medicine in Greece and Egypt About 163 he went to Rome, where he was made physician to the emperors Marcus Aurelius and Commodus, and to many eminent Romans He died in 200, either in Sicily or his native Porgamum Galen wrote a great deal on medicine and though most of his writings have been lost, those that remain were studied by medical men for centuries, and proved him to have been, after Hippocrates, the greatest of Greek physicians

Galena Chief ore of lead It is a sulphide of the metal and occurs, in veins and pockets, in rocks of many formations, associated with quartz, fluor, and ores of copper, zinc and silver Its cubical, let I grey crystals with a metallic lustre, contain 86 per cent

of lead and usually some silver

Galicia District of Europe It is to the since 1919 has been a part of Poland. It is rich in oil and salt Lemberr is the chief town, and the Bug, Dniester, Pruth, and other rivers pass through it Its area is about 30,000 sq m.

Galicia Former kingdom of Spain Situated north of Portugal, the kingdom comprises the modern provinces of Corunna, Lugo, Orense, and Pontevedra, occupying an area of 11,000 sq m The name is retained by the district which is traversed by the Minho and other streams, and the by the Minno and other streams, and the indented coastline includes the harbours of Ferrol, Corunna, and Vigo The Gallegos are a hardy people devoted to agriculture and fishing Their dialect forms, with Portuguese, a branch of Romance speech distinct from Castillan Spanish

Galilee Roman province of Palestine in New Testament times It lies north of Samaria and west of the Jordan, its capital boing Tiberias It was Christ's home in boyhood, and witnessed much of his active ministry. A Neanderthal skull was unearthed there in 1925, proving it to have been occupied in prehistoric times It now forms part of the district of Palestine mandated to Britain A cathedral porch of unusual size is called

a Galilee porch

Galilee Sea of Lake of Palestine (alternately named after Tiberias. named after Tiberias. Chinnereth, and Gennesareth An expansion of the Jordan, 13 m long by 8 m broad, it has an area of 64 sq m, and lies 680 ft below the Mediterranean level, having a maximum debth of 150 ft Like the Dead Sea, it is a rift depression with tropical vegetation. Eastward the hills of Bashan, 2000 ft high, cause sudden and violent storms (Matthew viii, xiv). Tiberias and Capernaum, on its shores, then densely populated, were the scene of much of Christ's ministry.

Galilei Galileo Italian astronomer. Born at Pisa, Feb 18, 1564, he entered the university there, became a professor, and made some valuable discoveries in physical science, but was soon compelled to resign. In

1592 he became Professor of Mathematics at papal control. Its liberties were defined by the

ne moved to Florence He died in Florence, Jan 8, 1642, and is there buried Galileo crected a telescope, and so was able to discover the satellites of Jupiter, and some spots on the sun After further observations on the heavens, he declared that the Copernican on the heavens, he declared that the Colermoan system of the planets moving round the sun was true, as this gave offence to the Church, however, he withdrew it—but only for a time In 1632 he stated it again in his great Latin work on the solar system, and was in consequence put in prison The Pope released him, and he continued his astronomical work almost until his death, although for 5 years he was blind Galleo's discoveries place him in the front rank of the world's scientists

Gall Nut like outgrowth on the gall oak, an oak apple Galls, the result of the attacks of the gall fly, contain about 40 per cent. of themse acid and 5 per cent. of gallic acid, these acids form, with iron salts dark blue or black compounds, hence the use of galls in link manufacture

The word gall is also a name given to the bile secreted by the liver horse's back, the result of chafing

Galle Seaport of Ceylon It stands on the south west coast of the island and at one time was its chief port. Its full name is Punta Galle Pop (1931) 38,424

Galleon Large Spanish vessel of the lofty stem and stern, and often with three or four gun deels, it served both for warfare, as in the Spanish Armada, and for transporting treasure from the Indics

Gallery In architecture a passage con structed in the upper part of a building, and giving a view of the lower part building, and giving a view of the lower part
of the interior Later the term was extended
to any large room of greater length than
breadth in the Norman castle the great hall
often had a gallery surrounding it, and in later
times the gallery accommodated the family
palutings and works of art Another form of
gallery is the minstrels' gallery Galleries are
present in many mediaeval churches, and wooden

present in many meanier at contract, and wood ones became common after the Reformation. The word is now used for a building to hold a collection of pictures as the National a collection of pictures as the National Galleries and National Portrait Galleries in London Edinburgh, and clsewhere

Galley Long, narrow boat propelled by cars Such vessels were largely employed in the Mcditerranean until the 16th century They had, as a rule, about 50 cars, each worked by six men, usually captives or convicts A galley is now the six cared boat on a warship devoted to the captain's use. The word is also used for the place on a vessel

where the cooking is done

The term is used in printing for the wooden
or metal frames used for receiving the type
after it has been set Proofs taken from this are

called galley proofs

Galliard An old dance for two persons popular in the 16th and 17th centuries The minuet is said to have sprung from it.

Gallican Church Branch of the Roman Catholic Church in France Of 3rd century origin, it which tested their moral and other conditions persistedly rejected ultramontanism refusing to the very utmost. Towards the end of the to submit the temporal state and its head to year it was decided to evacuate Gallipoli, and

1692 he became Professor of Mathematics at papal control Its liberties were defined by the Padua, where he remained until 1610, when he moved to Florence He died in Florence, Jan 8, 1642, and is there burled Gallico creeted a telescope, and so was able to discover the satellites of Jupiter, and some spots on the sun After further observations on the heavens, he declared that the Copernican a state establishment

a state establishment

Galli-Curci Amelita Italian singer

Is90, her pure soprane voice was largely self

trained She made her debut as Gilda in

Rigoletto in Rome 1900, and has appeared at

the Chicago Opera House and the Metropolitan

Opera House, New York. In 1924-25 she toured

Great Britain, where she had previously

attained a great reputation on the strongth of

her gramophone records She toured Australia

in 1932

Gallieni Joseph Simon French soldier Born at St. Beat, April 24, 1849, he saw service in the Franco Prussian

Gallieni Joseph Simon French soldier 1849, he saw service in the Franco Prussian War and also in Senegambla, the Sudan, and Indo China As Governor of Madagascar 1898-1905, he proved himself a great administrator Appointed Military Governor of Paris in 1911, his plans substantially assisted towards the victory of the Marne He died May 27, 1916, and was posthumously made a Marshal of France, 1921

Gallipoli Peninsula of south cast Turkish Republic, but is in the zone that is ruled by a commission under the League of Vations The peninsula lies between two openings of the Aegean Sea, the Gulf of Saros and the Dardanelles and its importance is due to its position on the way to Istanbul The most important places are Gallipoll, a small seaport, and Killd Bahr

GALLIPOLI CAMPAIGN In 1915, soon after Turkey had entered the World War as an ally of Germany, the Allies decided to force a way to Constantinople A floet entered the Dardan elles, but was unable to make much progress, and suffered severe losses It was then re solved to proceed by land through Gallipoll A British army, called the Mediterranean Expeditionary Force, was assembled in Lg.pt and the islands of the Aegean under Sir Ian Hamilton It included Australian and New Zealand troops, and numbered about 120,000 men A French force was also assembled but the British were entrusted with the main attack, the French making feints on the other side of the peninsula

On April 25, 1915, the troops landed at several places on the peninsula The losses were fairly heavy, as the Turkish resistance was stubborn and progress was difficult The Turks had positions strongly fortified on the hills, and from these hard lighting could not dislodge them The struggle centred chlefty around Krithia under Achi Baba at the Aegean end, and at Gaba Tepo (q v), called Anzac, where the Australians and New Zea landers were assembled hut after three months the camaning had falled to achieve its object.

given by the French on the Dardanelles side of the peninsula but after three months the campaign had failed to achieve its object

In August fresh forces were collected, and another landing was mad. These new troops got ashore at Suvia Bay and attacks were made elsewhere but there was no considerable success. The British forces could do nothing success. The British forces could do nothing but hold on under climatic and other conditions

on Jan. 6-8, 1916, this was done, almost Loyalires, The Skin Game, The Pigeon, Escape, without loss—a remarkable feat of arms The British lost over 33,000 men, and some 7000 were reported missing

Gallium Hard, white, sectile and malleable metal It was discovered in 1875 by Lecoq de Boisbaudran in zinc-blende from Plerrefitte in the Pyrenees Its symbol is Ga, atomic weight 69 9, and melting point 86° F It softens by pressure of the fingers, and once melted remains in liquid form at low temperatures

Galloway District in the south-west of Scotland, consisting of the counties of Kirkeudbright and Wigtown The Mull of Galloway is the most southernly point of Scotland and on it is a lighthouse and some ancient remains Galloway is famed for its breed of horses and its hornless cattle, and is associated with the story of the Covenanters

The title of Earl of Galloway has been borne by the family of Stuart since 1623 The earl's

eldest son is called Lord Garlies

Gallows Wooden frame used for executing sentence of death by hanging It is formed of two upright posts and a cross-beam, from which depends the execution rope, or, of a single upright with a projecting beam The latter form served more particularly for the gibbet, upon which bodies of criminals, after execution, were suspended

Until 1868, gallows were erected in public places, as at Newgate and Tyburn See

LXECUTION

Gall Stones Hard concretions formed in the gall bladder Also called biliary calculi, they may comprise the crystalline substance called cholesterin, or bile pigment encrusted with cholesterin or lime salts Colour varies from golden brown to white There may be several hundreds gravel sized, or a single stone sometimes as big gravel sized, or a single stone sometimes as big as a goose's err Usually arising from controls as a goose's egg Usually arising from catarrh of the bile passages, bile sand is deposited and gradually massed and encrusted Sedentary occupations and over eating are predisposing causes See BILE

Gallus Roman emperor Trebonianus Gallus first became prominent as the leader of a Roman army in the region of the Danube After Decius had been killed in battle in that area, in A D 251, Gallus was proclaimed Emperor He made peace with the Goths and marched to Rome In 253 he was killed by his own soldiers

Galston Burgh and market town of Ayrshire It is on the River Irvine, 5 m from Kilmarnock, on the LMS Irvine, 5 m from Kilmarnock, on the LMS Rly There are some industries, and in the neighbourhood are coal mines 'Pop (1931)

Galsworthy John English author Born at Coombe, Surrey, in 1867, he was educated at Harrow and New College, Oxford He became a barrister in 1890, but gave his time to literary work, and as John Sinjohn published some tales and a as John Sinjohn published some tales and a novel called Jocelyn, 1898 During the next 30 years he made his way steadily into the front rank, winning distinction both as a dramatist and novelist and to a lesser degree as poet and essayist His honours included an honorary followship at his old college and the Order of Merit In 1931 he was Romanes Lecturer at Oxford He died in 1933

Galsworthy's plane deal largely with social

Galsworthy's plays deal largely with social problems, and include The Silver Box, Sirife,

and many others As a novelist his great work is the stories written about the family of Forsyte, a series of books which depicts the history of several generations of an imaginary London family Beginning in Victorian days they trace the family history up to the disturbed period of the war and after These books and heriod of the wir and after These books and tales appeared at first separately, but they have been collected into three large volumes entitled The Forsyte Saga A Modern Comedy, and On Forsyte Change Other novels are The Island Pharisees, The Freelands, The Darl Flowers, The Country House, Maid in Waiting, and Flowering Wilderness Over the River appeared in 1922 of the the subtract death. appeared in 1933, after the author's death

Galt City of Ontario, Canada from Hamilton, and is situated on the Grand River, in an agricultural district It is an industrial centre, having flour and woollen mills, and iron works, for which clectric power is supplied by Ningara Falls, and is served by the CN and CP Rlys The city is named after John Galt Pop 13,200

Galt John Scottish novelist Born in Ayrshire, May 2, 1779, he went to London in 1803 In 1809 his business took him to the Continent, and on his return he took to writing for a livelihood, but met with no great writing for a livelihood, but met with no great success until The Ayrshire Legatees came out in 1820, it was followed by The Annals of the Parish, Sir Andrew Wylie, and others In Canada 1826-29 he founded the town of Guelph, and wrote Laurie Todd, a Life of Byron, and an Autobiography He died at Byron, and an Autobiography Greenock, April 11, 1839

His son, Sir Alexander Tilloch Galt (1817-93). was a prominent politician between 1849 and his death

Galton Sir Francis English scientist Born at Birmingham, Feb 16, 1822, a cousin of Charles Darwin, he was educated at Birmingham and Trinity College, Cambridge He graduated in medicine, but did not practise After travelling in unexplored parts of S Africa, he wrote a Narratice of an Explorer in Tropical S Africa, 1853, and The Art of Travel 1855. In 1863 he produced The Art of Travel, 1855 In 1863 he produced Meteorographica, notes on meteorology, but his fame rests on his studies in heredity. He wrote Herediary Genius and the more popular Inquiries into Human Familty, and made possible the use of finger-prints for detecting criminals In 1904 he endowed a professorship for the study of eugenics at the University of London, and he also established a laboratory for the same purpose In 1909 he was knighted, and he died on Jan 17, 1911

Mountain of Ireland Galtymore it is the highest summit of the Galtee range, having an altitude of 3015 ft

Galvani Luigi Italian physiologist Born at Bologna, Sept 9, 1737, he became a professor at the university there, and investigated, chiefly by experiments on frogs, his theory of animal electricity, on which he wrote a treatise On the Force of Electricity in Muscular Movement, 1791, thus becoming one of the pioneers of the science of electricity died Dec 4, 1798 The galvanometer perpetuates his name

Galvanising Process of coating from or steel with a thin film of zine This is done by dipping the iron into a bath of molten vinc, ammonium chloride (sal ammoniac), being used as a flux to promote the The process was union of the two metals

invented in 1742 by the French chemist, Jean P Malouin, Galvanised iron or steel withstands the action of air and moisture better than tinplate, hence its use for wire, tanks, and roofing

Galvanometer Instrument for the strength of electric currents or the potential difference in a circuit In its simplest form as in the linesman's detector, a magnet, fitted with a pointer, is supported in the centre of a coil of one or more rounds of wire. The magnetic needle is deflected in proportion to the strength of the

Galveston City and port of the United States In the state of Texas, it stands on an island at the entrance to Galveston Bay, and is connected with the mainland by a causeway over 2 m long Galveston's main industry is shipping, a vast quantity of cotton being exported Pop (1930) 52,938

Galway Seaport market town, and urban district of the Irish Free State, also the county town of Co Galway It stands on Galway Bay, and is 130 m from Dublin, on the GS Rlys Shipping and fishing are among the industries, which also include flour milling, marble polishing, and distilling Pop (1926) 14,300

The Irish title of Viscount Galway has been borne since 1727 by the family of Monckton Arundell In 1930, Seriby Hall, near Bawtry,

long the family seat, was sold

Galway County of the Irish Free State province of Connaught, it covers 2370 sq m and is the second largest in the country With a coastline of about 400 m on the Atlantic, it is famed for its wild and mountainous scenery of extraordinary beauty, and the Aran Islands, Connemara, and Joyce's There are many lakes, the largest Country being Lough Corrib

being Lough Corrib
Galway is an agricultural county, cattle
being reared and potatoes and oats grown,
but many of the inhabitants are fishermen
Limestone and marble are quarried Galway
is the county town, while others are Tuam,
Ballinnslee Loughrea, Cliden Athenry, Gort,
and Clonfert Pop (1926) 169 400
Galway Bay between the counties of Clare
and Galway is 30 m long and 22 m broad
The Aran Islands protect it from the sea

Gama Vasco da. Portuguese navigator Born at Sines about 1460, he be came a sailor and in 1497 attempted the difficult voyage round the Cape He succeeded and crossed the Indian Ocean to Celleut where he established a settlement, returning to Portugal in 1499 An attempt was made to rortugal in 1899. An attempt was made to restablish a colony at Calicut but the natives rebelled and Gama was sent to quell them returning to Portugal in 1503. In 1524 there were more native atroctites at Calicut, and Gama again voyaged there and re established Portuguese prestige, but died at Cochin on his return journey, Dec 24, 1524.

Gamaliel Jewish rabbt who taught the Apostle Paul (Acts xxii ) He

after the emperor's surrender at Sedan in 1870 Minister of the Interior and of War in the Government of National Defence He escaped in a balloon from Paris, and at Tours did s In a balloon from Paris, and at Tours du g great deal to rouse France to action against the invading Germans In 1871 he founded the newspaper La Republique Française, and he efforts to strongthen the new republic have made him regarded, rightly, as one of ite founders He was elected President of the Chamber in 1879, and from 1881 82 was Premier He died Dec 31, 1882, as the result of a pistol accident

Gambia River of West Africa, which colony It rises in French Guinea, and flows into the Atlantic Ocean near Bathurst

500 m long and much of its course is navigable.
The British Protectorate of Gambia is a district with an area of 4130 sq m, and includes the colony of Gambia (crown colony, 1888), consisting only of St. Mary's Island, 4 sq m in extent Ground nuts, palm kernels and in extent Ground nuts, palm kernels and hides and skins are the chief exports

Gambler Baron. English sallor Born at New Providence, Bahamas, Oct. 13, 1756, James Gambier joined the navy at the age of 11, and received rapid promotion He distinguished himself in command of the Defence on June 1, 1794, and next year became one of the Lords of the Admiralty He commanded the fleet which bombarded Coponhagen in 1807, and for that was raised to the peerage In command of the Channel fleet in 1809 he refused to support Lord Cochrane in his attempt to destroy the French fleet in the Basque Roads by fireships For this he was court martialled, but was acquitted He died April 19, 1833

Gambling Staking money on a sporting or other event, the issue of which is undecided and uncertain. It is done chiefly in connection with horse, dog and other forms of racing, but also on games of chance, especially with cards Players staking money on a game in which skill plays a part (billiards, bridge or golf for example) are not, however, gambling—the definition should be confined to pure chance REGULATIONS AND CONTROL In overy

country and in every age gambling has been prevalent. In Great Britain the law on the subject is conflicting and obscure, persons cannot recover in a law court any debt incurred by gambling agreements dealing with it cannot be enforced, persons who keep cannot be enforced, persons who keep cannot be enforced. gambling houses or persons who take bets in the street, are liable to fine and imprisonment, but on the other hand the licensing of hoolmakers and the establishment of totalisators on racecourses have given a certain amount of legality to the practice. The position with regard to lotteries and sweepstakes is equaliv obscure and the law is publicly flouted every See SWFFPST LKI

Gamboge Yellow gum resin, obtained by incision from the bark of a tree, garcinia cambogia and other species grow-ing in Ceylon and Slam Gambogo forms a bright yellow, but fugitive pigment. It is used

was noted for his tolerant spirit towards our bright yellow, but furtive pigment. It is used Lord's disciples. Although his conversion to Christianity is only a legend, he appears in the saints' calendar on Aug. 3.

Gambetta Born at Cahors April 2, 1838 he studied law in Paris, but turning to politics was elected to the Chamber of Deputies in 1869. An ordent republican he became, some purposes the law makes rabbits, snipe,

and woodcock game Tigers, lions, and other wild beasts, hunted in India and Africa and elsewhere, are called Big Game Game fowls are fowls of a special kind, bred for their

fighting qualities

GAME LAWS In Great Britain many laws have been passed to protect game, and under these very severe punishments were at one time meted out. This severity has now been mitigated to some extent, but it is still an offence to take or shoot game without the consent of the owner of the land. It is also an offence for anyone to shoot or hunt game on Sundays, Christmas Day, or during the close season (a period, fixed by law, during which the species must be left unmolested in order to breed). See Close TIME

Gamete Biological term for the cell which takes part in reproduction Typically gametes consist of the ovum, a comparatively large cell containing food material, and the spermatozoon, smaller and frequently active The individual bearing the former is the female, the latter, the male

Gamma Rays One of the emanations certain radio-active substances They include electro-They electromagnetic waves more penetrating than X-rays and of smaller wave length. They are given out by some forms of radium, thorium and actinium

Gandak Name of two rivers of India The Great Gandak (also called the Salagrami), rises in the Himalayas and flows for about 400 m in a south-easterly direction until it falls into the Ganges near Patna The Little Gandak also rises in the Himalavas, and takes a very similar course until it joins the Gogra

Gandhi Mohandas Karamchand Indian Nationalist Born in India, Oct 2, 1869, he studied law in London, and then returned to practise as a barrister in Bombay In 1893 he was in S Africa, where he led his fellow countrymen in their opposition to the legislation directed against them His methods were successful, and he became known as a leader of the nationalist movement, which gained a good deal of strength after the World War

In 1919 Gandhi acted as the spokesman of those who objected to British rule in India, and was soon recognised as their leader organised a boycott of British goods, and started the movement known as non-co operation In 1922 he was arrested for sedition and sentenced to a term of imprisonment, but in 1924, having still four years to serve, he was released but in 1924, After a period of quiet he renewed his agitation After a period of quiet he renewed his agitation in 1930, his violent speeches, in which he urged the expulsion of the British from India, leading again to his arrest. He was, however, soon released, and at Delhi he made an agreement with the Viceroy, promising in return for a large measure of self government for India, to call off the boycott. In spite of this, ne continued to make demands for India which to Englishmen seemed impossible. In 1931 he Englishmen seemed impossible Englishmen seemed impossible In 1931 he came to London to attend the Round Table Conference, but was arrested and imprisoned shortly after his return to India In Sept, 1932, Gandhi by a prolonged fast endeavoured to force the hand of the Government. In 1933 he again fasted, on this occasion as a protest against the religious tabu of "untouchability" To his followers Gandhi is the mahatma, or master.

Ganges River of India It rises in the Himalayas, having its source in a cave in the state of Garhwal, 14,000 ft above sea level It is first called the Bhagarath, taking the name of Ganges only after the Alaknanda joins it, 133 m from its source, near where it enters British India It passes Cawnpore, and flows to Allahabad, where it receives the Jumna and becomes a great river, having now traversed 670 m. It turns east-ward and passes Benares. Patna and other towns, receiving the Gumti, Gogra, Gandak and other streams. Farther on the Brahma-putra joins it, and the vast delta begins. It enters the sea by several mouths, one being the Hoogli on which Calcutta stands.

The Ganges is 1557 m long and drains an area of about 390,000 sq m It is navigable for about 700 m, and barges can reach Cawnpore It is subject to floods which in the wet season cover an immense area The Ganges' canals irrigate an enormous area between the main river and the Jumna, and help to make the valley one of the most fertile in the world

To the Hindus the Ganges is a sacred river. Mother Gunga, and at Benares and elsewhere they come in thousands to bathe in her waters In 1931 its sources were explored by an expedi-

tion composed of British scientists

Ganglion In anatomy, a swelling upon posed of nerve cells The sympathetic system of man and other vertebrates comprises essentially chains of ganglia Others occur on the posterior roots of the spinal nerves, and one, called Gasserian, on the fifth cranial nerve's sensory root In pathology, a ganglion is an encysted tumour, containing fluid, on a tendon sheath, particularly in the sinews before and behind the wrists It arises from disorder of the synovial membrane

Gangrene Mortification or death of part of the body large enough to be seen—thus distinct from ulceration, which is slow successive death of microscopic parts, and from necrosis, death of internal parts, particularly bones Dry gangrene, a process of mummitteation, may attack the aged Moist gaugrene is accompanied by putrefaction, the part becoming swollen with fluid, and when dead forming a slough Gangrene may arise from burning, crushing, frost-bite, ergot-poisoning or bacterial infection Hospital gangrene succumbed to Lister's antiseptic treatment.

Gannet Widespread genus of web-footed sea-fowl (Sula) The northern solan goose, S bassana, which is 34 in long, with a 6 ft. wing-spread, haunts the Atlantic coasts of Europe and N Africa and feeds on the season of the season dsh It is white plumaged, with a yellow-tinged neck, and black wing feathers. Its breeding grounds include the Hebrides, Allsa Craig, Lundy Island, and Bass Rock One egg only is laid. Smaller species inhabit the Cape of Good Hope and Australia Sec BOORY

Ganymede Character in Greek legend A beautiful wouth, he attracted the notice of Zeus, who sent an eagle to carry him to Olympus, where he became his

to carry him to Olympus, where he became his cup-bearer He was supposed to be a son of Troos, King of Trov

Gapes Disease of poultry It is caused by the presence in the windpipe of a parasitic threadworm, syngamus trachealis The eggs, picked up from infected ground develop into mature worms, which cling to the mucous membrane of the windpipe, causing

great irritation and weakness The annual | Garden Suburb Bournville and Earswick, mortality from suffocation is large

Garbo Greta Swedish film actross Greta Gustafsson was born Sept 18, 1906, in Stockholm, and at the age of fourteen began to work in a department store In 1922 she began to work in films, and later joined a Dramatic School She played in Gosta Berling's Saga under the direction of Mauritz Stiller, and changed her name to Garbo After a picture in changed her name to Garno Arter a picture in Germany she wont to Hollywood with Stiller, and made her first picture, The Talent There followed The Tempiress, The Flesh and the Devil, Love, The Divine Woman Anna Christic, Romance, Inspiration, Mata Hari and Grand Hotel

Garda Lake of Italy In the north of the Garda country, it is one of the "Italian Lakes," famous for their beauty It is about 15 m long and covers 180 sq m, being the largest lake in Italy Gardone Riviera is one of the resorts on the lake which has been immortalised in the poetry of Virgil and Dante

Gardelegen Town of Gormany stands on the M. stands on the Mulde and on the railway line from Hanover to Berlin Here, during the Great War, the Germans set up a camp for prisoners of war In 1915 about 11,000 mon were interned, and great distress was caused by epidemics of typhus and other diseases The German treatment of the prisoners in this camp was the subject of a special report drawn up by the British Govern ment in 1916

Gardening (AS A CAREER) The possibilities of employment after a horticultural training include nursery gardening landscape gardening, positions with fruit, flower and vegetable growers, occasional openings in connection with public parks and botanical gardens and sub inspectorships under the Ministry of Agriculture To begin market gardening in a small way capital amounting to about £1000 to £1500 is required

The highest qualifications to be obtained are the London B % in Horticulture, and the National Diploma in Horticulture held by the Royal Horticultural Society with the approval of the Board of Agriculture Other examina tions held by the Royal Horticultural Society uro

The General Examination (Juniors and Seniors)

The Tenchers' Examination in School and Cottage Gardening (Preliminary and Advanced) Training for the horticultural examinations is best taken at a college such as the Royal Horticultural Society 8 School at Wisley, Surrey, for men (two years course) Practical surrey, for men (two years course) Practical experience with a horticulturist is extremely helpful, a premium usually being required Both sexes are admitted to University College Reading and the Royal Botanio Society School of Gardening in London

A list of Horticultural Colleges for both men and women, and a syllabus of examinations may be obtained from The Secretary Royal Horticultural Society, Vincent Square, West minster S W 1

minster, SW 1

Garden City Residential district in houses are built with plenty of space for gardens and open built with plonty of space for gardens and open spaces. The first garden city in Ingland was planned at Letchworth in 1904. On 6 sq m of land a town to house 35 000 people was planned. Other garden cities followed one being at Welwyn and another the Hampstead

built for industrial workers, are also garden suburbs. The movement has spread to the SENDERS The movement has spread to the British Dominions, and there are also garden cities in France, Germany, the United States and other countries To promote the movement, the Garden City and Town Planning Association was founded in 1899, with offices at 3 Gray 8 Inn Place, London, W.C. 1 Garden City, on Long Island (U.S.A.), is 20 m from New York

Gardenia Genus of overgreen trees and shrubs, named by Linnacus after the botanist Alexander Garden, FRS Native to 8 Africa and tropical Asia, sover il species are cultivated especially the Chinese G florida popularly called Cape jasmine, and the Japanese, G radicans The handsome white or yellowish flowers are often delicately per fumod

Gardiner Samuel Rawson English Hampshire Mar 4 1829, his most important work is the History of England from the Accession of James I to the Outbreak of the Great Civil War, 1863 82, and he also wrote The Great Civil II ar, 1866 91, The Common wealth and Protectorale 1894 1903 and many other historical works all marked by pains taking accumer, including A Student's History of England He died Feb 14, 1902

Gardiner Stephen English prelate and stateman Born at Bury S Edmunds about 1403, he was elected Master of Trinity Hall, Cambridge, in 1525 In 1528 he was sent by Henry VIII to Italy to secure the consent of the Pope to the divorce of Catherino of Aragon, and though he falled in his mission he was made Secretary of State the next year and in 1531 Bishop of Winchester When Fdyard VI ascended the throne he was de prived of his see and imprisoned, but on the accession of Mary in 1553 was released, reinstated to his bishopric and made Lord Chancellor He died Nov 12, 1555

Gareloch Opening of the Firth of Clyde It penetrates the land for about 7 m from Helensburgh to Garelochhead, a pleasure resort. Another watering place on its banks is Roseneath

Garfield James Abram American states man Born at Orango Oblo, Nov 19, 1831 he distinguished himself as a soldier during the Civil War, and in 1863 was elected as a republican to the House of Representatives at Washington being for the next 18 years a leader of his party In 1880 he was chosen President but in July, 1881 he was shot at Washington He lived until Sept 19, 1881

Garforth (WR) It is 7 m from Leeds on the LNE Riy The principal industry is coal mining Pop (1931) 3774

Garibaldi Giuseppe Italian patriot Born at Nice, July 4 1807. the son of a fisherman he early came under the influence of Mazzini, then organising the Young Italy movement, and joined the in surrection of 1831 Forced to flee the country he was from 1836 18 in S. America, fighting for the Montevideans against Rosas. On his return to Jurope in 1848 he fought for the king of Cardinia and a member of the revolutionary government, defended Rome against the French In 1859 he again fought for Sardinia against the Austrians

After the peace of Villafranca, making a united Italy his aim, he led a small army of volunteers, his "red shirts," into Sicily, which he captured from the Bourbon King of Naples He then captured the Neapolitan territory on the mainland and handed both to Victor Emmanuel, thus helping him to become the first King of united Italy In 1862, and again in 1867, Garibaldi made unsuccessful attempts to take Rome, being forced after each to go into retirement at Caprera In 1870 he gave his services to France against Germany He died June 2, 1882

Garlic Pungent perennial bulbous herb A native of Asia, and widespread anciently in the Mediterranean region It has long been a favourite condiment in S Europe and most Oriental countries, and was introduced into England in Tudor times The bulb has mem-branous scales whose axils bear 10 or 12 smaller bulbs called cloves of garlic Me oinally, it is a stimulant and stomochic ursinum is bear's garlic or ramsols, ot Medi other Br tish species are crow, wild, and field garlic

Garnet Group of gemstones of varying composition and colour, but possessing certain characteristics in common The garnets crystallise in 12 or 24 sided forms, have a greasy lustre and imperfect cleavage They are complex silicates of various oxides Lime-alumina garnets are red, yellow, or green, a gemstone of this class being the cinnamon stone of Ceylon Iron alumina garnet, or almandine, is purplish red, the common red garnet is a magnesia-alumina variety

Garonne River of France It rises in soon enters France It passes Toulouse and Agen, and reaches Bordeaux, near which city it unites with the Dordogne to make the estuary called the Gironde The tributaries include the Lot, Tarn, Save, Gers, Ariège, and Salat, and its length is about 350 m The Carl and Will be at the best with the Mediterrence. Canal du Midi links it with the Mediterranean

Garrick David English actor The son officer, he was born in Hereford, Feb 19, 1717, and educated at Lichfield He there met Johnson, who took him as a pupil, and in 1737 the pair set out together for London Engaged for a time, unsuccessfully, in the wine trade, Garrick first appeared on the stage in London in 1741, and won an instant success He played at Druwy Lore in Dublin and at Covent Gerden and won an instant success He played at Drury Lane, in Dublin, and at Covent Garden, and in 1747 became joint manager of Drury Lane, where he remained until 1776 He died, Jan 20, 1779

Garrick ranks as one of the greatest, if not the greatest, of Lnglish actors. His name is perpetuated by the Garrick Club, founded in 1831. The house is at 15 Garrick Street,

London, W C

Garrison Armed force stationed in a fort, eastle, or fortified town to defend or guard it, or to control the inhabitants Towns in which garrisons, for convenience or precaution, are habitually stationed, are called garrison towns These usually include companies of the Royal Royal Artillery

Garrison William Lloyd American abolitionist Born at Newburyport, Mass, Dec 10, 1805, in 1826 he became editor of a newspaper in his native town, and came out as an advocate of the abolition of slavery. In 1831 he started The

edit in spite of grave danger and difficulties As the foremost opponent of slavery Garrison lectured in England, and was President of the Anti-Slavery Society In 1865, on the abolition of slavery, he was presented with 30,000 dollars. He died in New York, May 24, 1879

Garrotte Appliance used in Spain and Portugal for executing sen The seated criminal is secured to an upright post by a hinged metal collar a screw or lever dislocating the spinal column Originally the collar was a cord, strangulation being effected by twisting the cord with a cudgel

Garry Lake of Canada In the North-West Territories, it is only just outside the Arctic regions, and covers nearly 1000 sq m The Great Fish River flows through it to take its waters to the Arctic Ocean Garry Island is an island at the mouth of the Mackenzie River in the Arotic Ocean Fort Garry is the old name of Winnipeg

Garter Order of the Senior English from 1348, when it was founded by King Edward III Its motto, honi soil qui mal y pense, is inscribed on the gerter of dark blue walvet which bedship was lost below the valvet which knights wear just below the left knee They also wear a mantle, surcont and hood, with a collar of Tudor roses, from which the George, a figure of S George, and

The head of the order is the Sovereign and there are 26 knights in addition to members of the royal family and foreign rulers and princes Each knight has a stall in S George's Chapel, Windsor The garter king of arms is the herald of the order For years membership was confined to peers, but in the 20th century was commen to peers, but in the 20th century the garter was given to Sir Edward Grey, later Viscount Groy, and Sir Austen Chamberlain Knights are distinguished by the letters K G, and rank above all other knights

Gas State of matter in which the cohesion between the material particles is at its minimum, producing a condition of perfect fluidity Consequently a gas has no definite size or shape except that given by a containing vessel By the application of cold, gases passed into the liquid or solid state, and similarly heat will change a solid or liquid into a gas

Gases readily diffuse into one another, are soluble in many liquids, and their properties of viscosity in flow and compressibility are well marked characters. They show characteristic

absorption bands in the spectrum

The commonest gases are the constituents of air and water, viz, oxygen, nitrogen, and hydrogen, coal gas, from the distillation of coal, is used as an illuminant and source of heat. Water gas, produced by passing steam through a mass of incandescent coke, is also employed as an illuminant

Gas for lighting and heating houses, shops factories and the like, is supplied by companies which obtain their powers from Acts of Parliament and are supervised by the Board of

Trade

POISON GAS In modern warfare toxic and POISON GAS In modern warfare toxic and irritant gases are discharged against hostile troops by means of cylinders or special shells. They were first introduced during the Great War. The employment of shells containing an irritant gas (dianisidine chlorosulphonate) at Neuve Chapelle was followed by the use of a tear gas (xylil bromide), and later by cylinders of chlorine and a mixture of chlorine and those of the containing the property of the containing the containin Liberator at Boston, which he continued to and phospene In 1917 other toxic and irritan

gases were introduced, such as mustard gas (dichlorethylsulphide) The use of gas in warfare necessitated the employment of various types of anti gas respirators

Gascoigne Sir William English judge Born about 1350, he was made Chief Justice of the King's Bench in 1400 In 1403 he was commissioned to levy forces against the rebellious Earl of North umberland He seems to have resigned his office soon after the accession of Honry V and he died in 1419 Two instances, both probably untrue, are cited to illustrate his impartiality and fearlessness, i.e., he refused to try Arch bishop Scrope, since he had no jurisdiction over ecclesiastics, and he committed Prince Henry (later Henry V) for contempt of court

Gascony District of France In the south west of the country, in the angle formed by the Pyrences and the Atlantic Ocean it takes its name from a tribe called the Vascones In the Middle Ages it was a dukedom but about 1100, or earlier, it became part of Aquitaine, and as such was included in the dowry of Eleanor, wife of Henry II of England, it remained an English possess sion until 1453 The men of Gascony—Gascons, as they were called—were proverbially prograptic and swaggerors, albeit not without. District of France braggarts and swaggerers, albeit not without courage Their speech, a French dialect, is still heard in the district.

Gas Engine Type of internal com ower is obtained from the combustion of an explosive mixture of gas and air in a cylinder. The first engine of this type was invented in 1860 by Lenotr, who used coal gas as fuel It was improved upon by Otto introducing the four stroke oyele, in which there is one explosion for every four strokes of the piston, the cycle of operations being completed in two completed in two contracts of the cycle. revolutions of the crank Most gas engines are of this type and single acting, but a two stroke cycle is used for many large engines since it

Gaskell Elizabeth Clegher novellst Born Cleghorn Fnglish Gaskell novelist Gignorn Fights, Sopt. 29, 1810, she was brought up at Knuts ford and Stratford on Avon She married, in 1832, William Gaskell, a Unitarian minister in

1832, William Gaskell, a Unitarian minister in Manchestor Her first novel, Mary Barton, appeared in 1848, then came Ruth, and Cranford, her best known work in 1853 She also wrote North and South, Sylvia's Lovers Wites and Daughlers, and a Life of Charlotte Bronte. She died Nov 12, 1865

Gas Mantle Device to give increased illumination It was in vented by Welsbach in 1885 for attachment to a burner of the Bunson type It consists of a tube of lossely woven fabric of ramic fibre ray on, or cotton impregnated with a solution of thorium and cerlum nitrates obtained from of thorium and cerium nitrates obtained from The mantle when the mineral monazite burned leaves an incandescent skeleton of the earthy oxides giving a brilliant light The finished mantle is stiffened with collection which is burned off on first lighting

Gasometer Large gas holder used in the storage of coal gas tonsists of a cylinder, usually of telescopic construction, contained within a vater tankin which the holder rises and falls but is held in position by roller guides on the top and bottom edges. The outlet is regulated by a governor controlling the pressure of gas

Gasometry Method of measuring the volume of gases and gas

eous mixtures. This is done by means of the eudiometer  $(q \ v)$  and other apparatus Hempel's apparatus, which is frequently used in in apparatus, which is frequently used in in dustrial analysis, consists of a gas burette for measuring and an absorption apparatus of two or more bulbs in which the gas is brought into contact with reagents. The burette consists of two vertical glass tubes joined by flexible tubing, one tube being graduated in centimetres, the other open and not graduated.

Gaspé Peninsula of Canada. It lies to the south of the St Lawrence in the extreme east of the Province of Quebec Mainly a forest area, it has a cold climate and is thinly peopled At its eastern end and in the Gulf of St Lawrence are Gaspé Bay and Cape Gaspé

Gastein Name of several villages of Austria They stand in a beautiful valley near Salzburg and are visited by health and pleasure seekers The River Asche flows through the valley. The most Asche flows through the valley. The most popular village for visitors is Wildbad Gastein, where there are some mineral springs.

The Convention of Gastein was an agreement.

The Convention of Castein was an agreement signed between Austria and Prussia on Aug 14, 1865. The two countries had just taken Schleswig and Holstein from Denmark and by this Convention they agreed that Prussia should possess Sobleswig, and Austria, Holstein. The arrangement fell through very soon, as war broke out between them in 1866

Gastritis Inflammation of the stomach It is usually due to the irritation of its lining of mucous membrane and may be either acute or chronic in character and may be either acute or chronic in character. The former may arise from errors of diet or from an irritant poison the symptoms being like those of billious attacks. The chronic type especially attends persons addicted to alcoholic excess or to boiling food, and is often associated with heart disease or disordered liver Pain, the sensation of fulness, flatulence nausea and lassitude are experienced. Sec Dispersia

Gastropoda Class of belly footed mol Gastropoda luses They crawl on a broad, muscular disc like foot beneath the body A univalve shell never a bivalve, is generally developed in the larval form, it is sometimes obsolete or absent in the adult All enstropods possess rasping tongues, the mouth being situated in the foot. Over 16,000 species are known, and they are found on land, or in fresh or salt water Many are gill breathing eq, whelks periwinkles, limpets and cowries Others are air breathing, such as slugs and snails or land shells

Gastrostomy Operation of forming opening into the stomach for introducing food It becomes essential when food cannot traverse the gullet because of obstruction or stricture Gastrotomy is the making of incisions through the abdominal walls Gastrectomy is the the abdominal walls Gastrectomy is the operation for removing the stomach, in whole or part

Gateshead Borough and scaport of Durham It stands on the It stands on the Tyne, just opposite Newcastle, on the LNF Rly 267 m from London The industries include engineering works railway slops and the manufacture of chemicals Shipping and shipbuilding also give employment. Pop (1931)

Gath One of five confederated Philistine lities It was captured by Sarron of Assyria in 711 n c The birthplace of Gollath

and destroyed by Uzzlah

Gatling Richard Jordan American in-ventor Born in North Carolina, Sept 12, 1818, he was educated at Ohio Medical College In 1862 he invented the Gatling machine gun, and among his other inventions were a steam plough, a new gun metal and a hemp-breaking machine. The Gathing gun was of the revolving type with six barrels, a crank, worked by hand, feeding, firing and electing the cartridges He died Feb 26, 1903

Gatton Village of Surrey, once a borough It is 2 m. from Reigate Pop 236 Gatton House, the residence of Sir Jeremiah

Colman, was built in the 18th century Recently burnt down, it has been rebuilt

Gatun Town, lake and river of Central America The town is in the Panama Canal Zone and belongs to the USA It is on the canal, where the rivers Gatun and Chagres meet, 7 m by railway from Colon Here are huge locks and a dam

Gatwick English racecourse. It is near Horley, Surrey, about 26 m from London, on the S Rly. Several meetings are held here during the racing season. Gatwick is now an airport

Gauchos Mounted herdsmen of the Uruguay and Argentine pamof the pas Although some are aboriginal Indians, those properly called Gauchos claim Spanish paternity Their skilful horsemanship, innate courtesy and love of finery endow them with a notoriety not always untainted by brigandage

Gaudeamus College students' merry-making, especially in Scotland. The word is derived from a German students' song in dog Latin, beginning Gaudeamus igitur fuvenes dum sumus, Then let us be merry while we are young. A modified version of an adaptation dating from 1776 appears in The Scotlish Students' Song-book

Gauguin Paul French painter Born in Paris, June 7, 1848, he spent his childhood in Peru and Orleans, and entered a banking firm in 1871 Soon after, encouraged banking firm in 1871 Soon after, encouraged by Pissaro, he began painting, ioining the Post-Impressionist group, and later started the Synthesist movement, which treated colour in a new way. After painting in Brittany and Southern France, he worked in Tahiti from 1891 93, painting the natives, as in 'Devant la Case," 'Jours Delicieux' After visiting Paris, he returned to Tahiti in 1895, and died in Dominia May 9, 1903

Gauge Term originally given to a measuring rod used in gauging

Gauge Term originally given to a measuring rod used in gauging the contents of casks, now used for many forms of measuring apparatus. In the measurement of wire and sheet metal, definite gauges of the diameter or thickness are adopted for purposes of standardisation, as in the Birmingham Wire Gauge (BWG) for electrical wires, etc., or the Siandard Wire Gauge (SWG) for general purposes. Rain gauges, water and steam gauges are other forms of measuring instruments. A railway gauge is the width Gauge steam gauges are other forms of measuring instruments A railway gauge is the width between the lines of the railroad The standard gauge, which has been adopted over a great part of the civilised world, is 4 ft. 8½ in Gaul Old name for France It is the modern form of the Roman name Gallia, which was given to the European region inhabited by Celtic-speaking peoples This was at first divided into Cisalnine. South

David conquered it, it was fortified by of the Alps, and Transalpine, beyond the Alps, Rehoboam, annexed by Hazael of Damasous and besides France embraced various adjacent and besides France embraced various adjacent regions

Gault Name given to a soft bluish clay. It is found between the Greensands upper and lower, in the south of England, and is used for making bricks and tiles

Gauntlet In mediaeval armour, a protective glove, sometimes bearing metal knobs and spikes It was introduced in the 13th century, later types were made of hammered steel, completely fingered and jointed Nowadays the term denotes a long, stout glove, used mainly for riding or driving

In running the gauntlet it is confused with an entirely distinct Swedish word, gallopp,

lane run

Gautier Théophile French author Born at Tarbes, Aug, 31, 1811, he was educated in Paris, where he studied art and literature An ardent, and in his youth, an extravagant Romantic, he early became a disciple of Victor Hugo In 1830 he published Alberius, a metrical romance, and in 1835, Mlle de Maupin, a brilliant but immoral novel A journalist and critic, he was also the author of a great number of novels and poems of great merit and real beauty They include, Les Jeunes-France, Le Capitaine Fracasse, and Ménagorie Intime, and in verse, Emaux et Camées and La Comédie de la Mort Gautier died in Paris, Oct 23, 1872

Gavelkind Form of land tenure By the sons equally if the father died intestate It was thus the opposite of primogeniture Gavelkind was long the custom in Kent, but in 1925 all these relies of ancient land customs in England were abolished

Gavotte Lively and graceful dance. Of French peasant origin, it is derived from the Gavots, or people of the Pays du Gap, Hautes Alpes A French court dance in the 16th century, late in the 18th

century it passed to the stage

Gay John English poet and dramatist. Born in Devonshire in 1685, he was educated at Barnstople and for a time was apprenticed to a silk mercer in London Soon turning to literature he wrote poems, pamphlets and plays, scoring his first success in 1714 with a pastoral, The Shepherd's Week, suggested to him by Pope This was followed by Trivia, a poem describing the London streets. In 1727 his Fables were published. His best work was The Beggar's Opera, produced the next year, the success of which was unprecedented. The production of a sequel, Polly, was pro-hibited, but in book form it was very successful Gay died Dec 4, 1732, and was buried in Westminster Abbey

Town of Palestine, also called It stands near the Gaza Guzzeh near the Mediterranean Sea It was a Philistine city and owing to its position has always been a place of military importance Pop 17,500

There was a good deal of fighting around Gaza during the World War In 1917 the British forces invading Palestine twice attacked and failed to take Gaza, but succeeded on the third attack, under Allenby, in Nov. 1917

In 1930 Sir Flinders Petrie uncarthed the remains of an early and great city here Many remarkable finds were reported

Gallia, which was given to the European region inhabited by Celtic-speaking peoples This was at first divided into Cisalpine, South

Gdynia Seaport of Poland It stands on the Gulf of Danzig, 12 m from the free city of that name Much of the troin the free city of black name made of poland now passes through it. Pop

trade of Poland now passes through it. Pop (1931) 30,210

Gear motion in machinery There are many forms of gears, differing in the size of the wheels and the form of the teeth according to the speed and direction of the motion to the speed and direction of the teeth are trusmitted. In spur gearing the teeth are evolvidal or involute, bevel gearing is used evolved two shafts are set at an angle to one where two shafts are set at an angle to one another and the rolling surfaces are portions where two subjects are set at an angle to one another and the rolling surfaces are portions of cones, while in worm gearing the wheel works

Geddes politician Born, June upon a screw like worm 1879, he was educated at Edinburgh Univer 1879, he was educated at Edinburgh University. He became assistant professor of antomy at Edinburgh and then professor of antomy at Edinburgh and then professor of the antomy at McGill University, Montreal antomy at McGill University. South African antomy at McGill University. South African defined the army during the World War, being War, and again during the World War, being the post of director of recruiting In 1917 recalled from the front in recruiting In 1917 recalled from the front in recruiting In 1917 was knighted and successfully became the was knighted and successfully became the minister for national service president of the minister for national service president of the local government board (1918), minister of local government board (1918), minister of the was for a short to be define the was for a short to be define the was for a short of the head of McGill University, Montreal, at the head of McGill University (McGill University) and McGill University (McGill

Washington (1920 24)

Geddes Sir Eric Campbell Born in Eric Tindia, Sept 26, 1875, he entered the railway service and gained when the United States and India When the Great War began he held a high position in the North Eastern Railway, which he left in 1915 to onter the ministry of munitions to extra dedirector general of military railways, next made director general of military railways, where he made his mark, and passed on to next made director goneral of military railways, where he made his mark, and passed on to become controller of the navy and then first lord of the admiralty. He was then chosen in 1919 for Cambridge in 1919 Geddes who had we have the capacity in the capacity he carried out the regrouping of the railways. He left political life in 1921, and in railways chairman of the committee that 1922 was chairman of the committee that 1922 was chairman of the committee that 1922 was chairman of the committee that 1921 to 1921 t BUKENSKEU TEURICHORS IN BREIDER CAPERAGE IN 1922 he was appointed chairman of the Dunlop Rubber Co and of Imperial Airways

burgh, the stool is to be seen Australia It Geelong City of Victoria Melbourne and tands on Corlo Bay, near the River Barwon The industries include woollen mills, coment works and other manufactures Shipping is an important industry Greater Geelong covers important industry and includes Newtown Chilwell and

graceful, swift and slender limbed, and are mostly under 30 ins high at the shoulder from male of the Dorcas gazele, often tamed the Arabia and Persia, has lyre shaped, ringed norms about 13 ins long should be shoulder that the shoulder of the Dorcas gazele, often tamed the male of the Dorcas gazele, often tamed the shoulder of the male of the Dorcas gazele, ringed from the symbol for hell, it was so fired and personal form the symbol for hell, it was so fired the symbol for hell in the symbol for hell it stands help with the symbol for hell it stands help with the symbol for hell it stands help with the symbol for hel

employed by Christ (Mark ix)

Gelkie Sir Archibald Scottish geologist.

Sir Archibald Scottish geologist.

1835, and there educated, in 1855 he entered director of the survey in Scotland In 1871 director of the survey in Scotland professor he was appointed to the Murchison professor he was appointed to the Murchison of geology and mineralogy at Edinburgh ship of geology and mineralogy at Edinburgh University, and from 1881 1901 was director University, and director of the Museum of Kingdom, and director of the Museum of Kingdom, and director of the Museum of Practical Geology, London He was president Practical Geology, London He was president in 1865, he was knighted in 1891, and five in 1865, he was knighted in 1891, and sided Novi 10, 1924 His many works include Scenery, of Scotland, 1865 Oullines of Field Geology, 1887, ancient Volcanoes of Great Britain, 1897, and Text Book of Geology He also

1897, and Text Book of Geology 116 221897, and Text Book of Geology 116 22189, and Text Book of Geology 116

entertainer Purified form of glue It is Gelatine prepared from the parings of hides and skins, bones and other animal products The purest form, isinglass, is a fish glue It is used for culinary purposes, in the preparation of photographic in the preparation of photographic and films, also in bacteriology, dyelng, and films also for paper, and for various other purposes

Gelderland Province of the Nether-Gelderland lands It lies between the Zuider Zee and Prussia and covers 1941 sq. m. Zuider Zee and Prussia and covers 1941 sq m, Arnhom is the capital, other towns are Zutphen and Apeldoorn For long Gelderland, or Guolders, had its own rulers, who were first counts and then, from 1339, dukes In 1633 counts and then, from 1339, dukes In 1643 it passed to the Emperor Charles Provinces 1678 became one of the United Provinces 1678 became one of the United Provinces in the way included in the kingdom of the Nother was included in the kingdom of the Nother was included in the complexity of the Nother Cells 11811 to of gelatine dynamite, it consists of a thin jelly containing about 05 consists of a thin jelly containing about 05 per cent of nitro glocerine with varying protions of collodion cotton, nitrate of potasi and wood meal It is regarded as the standard explosive for blasting rocks and other in dustrial purposes.

explosive for biasting rocks and other in dustrial purposes Urban district and colliery of Glamorganshire, 14 m from Cardiff with stations at Hargod, Hengood and Pengarn on the GW Rly There are some interesting remains of a Roman camp Pop (1931) 41.042

camp Pop (1931) 41,042 In 491 BC he Sicily In 485 Gelo Tyrant of Syracuse In 40 OCCUPATION OF STREET famo by defeating a large army of Carthaginians in 480 n c

He won great creased in size and importance

tands on Corio Bay, near the Hiver Barwon the industries include woollen mills, cement to important industry Geelong West Greek form of the valley of Hinnom

Gehenna ame of the valley of Hinnom

The industry Greek form of the Hinnom

Gehenna Greek form of the valley of Hinnom

To Ho died in 178

Term applied to precious stones and record and polishing the record and polishing the record and seven as well as camed and garnet as well as camed and garnet form of the hilling there are many and characteristic there are many and characteristic there included in 178

Term applied to precious stones are cutting and polishing the record and seven as well as camed as well as the brilliant, rose and table out examples of plane surfaces, while opair and examples of plane surfaces, while opair and styles, the brilliant, rose and table out examples of plane surfaces, while opair and styles, the brilliant, rose and table opair in 480 B C He died in 178

Term applied to precious as well as the procious as well as the process of the procious as well as the procio

Gemsbok Species of antelope (oryx) antique of S W Africa, it abounds in the Kalahari desert and Damaraland It is a stout, heavy animal, about the size of a stag, with maned neck, tufted tail and coat of grey, black and white Its nearly straight horns, sometimes exceeding 3 ft. in length, enable it to beat off lions

Gendarme French term denoting at first a man at-arms mounted and armed at all points Afterwards the word was used for a mounted soldier employed in maintaining the royal authority This system, dissolved in 1788, was replaced in 1791 by military police, organised, uniformed and drilled like soldiers, who act under the civil authority Similar forces exist in other European countries, being called in Spain the guardia civil and in Italy carabinieri

Gender Distinction between nouns corphorically to the natural distinction of sex Names denoting male sex are of masculine, those denoting female of fermine gender Latin and other Indo-European languages recognised also names of neither or neuter gender, although many inanimate objects bore masculine or feminine names. French and other Romance languages have dropped the neuter gender. English has discarded grammatical gender entirely, natural gender being often indicated by variants, e.g., drake, duck

Genealogy a person or family It may form a pedigree or family tree Genealogical records are investigated specially by the College of Arms in London Lines of descent in the evolution of animals and plants constitute biological genealogies There is a Society of Genealogists at 5 Bloomsbury Square, London, W C 1

General Name given to a military first used in England for Cromwell, who was the lord general and who appointed major generals. In the British army the four kinds of general, all ranking between colonel and field-

of general, all ranking between colonel and fieldmarshal, general, licutenant-general, majorgeneral and the temporary rank of brigadiergeneral

In the Roman Catholic Church the Jesuits and some other orders call their head the general He is elected by the provincials and lives in Rome, being subject only to the Pope

General Assembly Name given to body of the Church of Scotland and other Presbyterian churches in Ireland, Canada, Australia and elsewhere The Scottish general assembly meets every year in Edinburgh in May, and consists of ministers and laymen sent as representatives by the presbyteries in the Church The king is represented by a High Commissioner appointed each year The assembly is presided over by a minister elected to the office could the moderator. Little the to the office, called the moderator Until the union of the free churches with the established church, each had its own general assembly, which also met in Edunburgh in May

## General Strike. See STRIKE

Generator In electricity a machine for the conversion of mechanical energy into electrical energy. This is done by the rotation of an armature, or other form of conductor, in a magnetic field. Generators are either of the direct current type, in which

the current flows in one direction, or of the alternating current type

Genesis First book of the Old Testa-"origin," is that of the Septuagint version After an account of the creation of the world it surveys the early history of mankind (i -xi), and in fuller detail that of the patriarchs Abraham, Isaac and Jacob (xii-1) Traditionally ascribed to Moses, and forming, with four succeeding books, the Pentatuch, it is now recognised as including contributions from four principal sources, having been finally revised after the Jews returned from sources that the 6th century exile in the 6th century

Genetics Study of the problems of types of organisms related by descent. The term is also used for the various problems of development of the individual, and of organic evolution. It covers such subjects as the nature and structure of the germ plasm, the relation of heredity to sex and the behaviour in inheritance of variations Genetics has a practical application in the breeding of plants and animals and in eugenics

Geneva Lake of France and Switzer-land. It is 45 m long and covers 225 sq m, larger than any of the other Swiss Lakes The southern shore is French territory On its banks are Genera, Lausanne, Montreux, Vevey and other pleasure resorts. The Rhône flows into the lake and emerges from its southern end Steamers traverse the lake, which is called by the French Lac Léman

City and river port of Switzer-land, and the headquarters of the League of Nations The capital of a Swiss canton of the same name, it stands at the SW end of Lake Geneva, where the Arve joins the Rhône, and is 388 m by railway from Paris On both banks of the Rhône, the older part lies on the left bank, and there are several bridges between the two John Calvins have call stands. An educational centre. e two John Calvin's An educational centre, house still stands Geneva has a university and several technical The chapel of the Maccabees and the schools tower of the bishop's palace are interesting old buildings, the Palace of the Nations the headquarters of the League of Nations, is modern The International Labour Office possesses a fine edifice, and a building for the secretariat and library of the League of Nations has been planned in Ariana Park

Geneva has a harbour in the river and quavs for the shipping Other industries include the manufacture of clocks, watches, jewellerv chocolate and motor cars It has a broadcasting

chocolate and motor cars It has a broadcasting station (760 M. 15 kW)

Geneva owes much of its importance to John Calvin, who settled here in 1536, and was for some years the city's autocrat. Previously it had been under its bishops, who were princes of the Empire, it then became a republic and remained so until the time of the French Revolution In 1815 it became part of Switzerland. In the 19th century it was made the headquarters of the Red Cross Organisation, and in the 20th the seat of the

organisation, and in the 20th the seat of the League of Nations. Pop 125,700

The Geneva Convention is an agreement signed by the chief nations of the world in 1906 It provides for better treatment of the wounded in war than was previously the case, and forbids any misuse of the Red Cross flows.

Genie in Oriental mythology, a class of subservient spirits, lower than the angels Made of fire and capable of appearing in human or animal guise, they sometimes exercise over mankind a supernatural influence for good or evil thus bearing a casual and confusing likeness to the ancient Roman genil The word is a corruption of the Arabic jinn, plural finnee

## Genista See Broom

Genius God of Roman mythology He was the god of productivity and especially of marriage Each man or woman had his or her own genius, who acted as a protector throughout life, influencing the one protected towneds good. Evil dodg. protected towards good. Evil deeds were later said to be caused by the influence of an evil genius Localities cities, families, etc., also had their tutelary genius, the genius loci of the Romans

From this it came to mean a person's inborn faculties Still later, it was used for faculties or abilities of an exceptional kind, and so to day a genius is a person endowed with unusual talent of a certain kind, e.g., a musical

or literary genius

Genoa City and scaport of Italy The Cenoa capital of a province of the same name, it stands on the Gulf of Genoa an opening of the Ligurian Sca, 74 m from Turin It is well served by railways, and is the country's chief commercial scaport, and also a naval station It consists of an old city, with narrow streets, and a modern part Suburbs extend up the hills that overlook the sea. The little River Bisagno flows through the city BullDings AND INSTITUTIONS—The 10th century cathedral is small and has been much altered, but is full of interest Among the churches mention may be made of S Maria di Castollo, S Maria di

Palazzo Rosso and the Palazzo Bianco the red and the white palaces The Palazzo di S Giorgio is used by the harbour authorities The city is still surrounded by walls, these being 12 m in circumference and having eight

gates

gates

Genoa has a university founded in 1243
and many colleges and schools, technical and
otherwise The cemetery or Campo Santo
is a feature of the city The central square
is the Piazzi di Ferrari but there are many
others, as well as parks and public gardens
The Cosso d Italia a promenade along the sea
front, is of recent date A war memorial in the
form of an arch was unveiled in 1931 The
theatre Carlo Felice is noteworthy, as is the
Verdi institute of music There is an excellent
service of electric tramways and circular service of electric tramways and circular railways go up the hills at the book of the city. There are many memorials of Columbus,

threatened by Attila and the Huns, and brought after the Great War The manufactures them aid when Childeric attacked the city She founded the church of S Denis, and was buried in the church of S Etienne du Mont Her festival day is Jan 3

Genie In Oriental mythology, a class of subservient spirits, lower than the subs

in wealth It was practically a little republic, ruling over a considerable area around the city, but its chief fame arose from the fact that, with Venice, it almost monopolised the sea trade between Asia and Europe In 1339 the first doge was elected In 1380 the Venetians defeated the Genoese in a sea fight, and until 1628 the city was under French protection. It then became again independent and so remained until the French Revolution when it was the capital of the short-lived Ligurian Republic. In 1815 it was given to Sardinia and thus became part of Italy. Pon Sardinia and thus became part of Ital) 624,600

In 1922, a European conference was held here, at which for the first time Soviet Russia

was represented

was represented

Genseric King of the Vandals Some times called Gaiseric, he became king in AD 428 He conquered parts of Africa where he set up a Vandal kingdom with Carthage as its capital He then took Sleily, Sardinia and Corsica, and ravaged the coasts of the Mediterranean In 455 he led his men to Rome, which he took and sacked. He died Jan 25, 477 In religion Genseric was an Arian Christian

was an Arian Christian
Gentian Genus of annual or perennial herbs (gentiana) The funnel-shaped corollas, usually blue are adapted for various kinds of insect visitors, the small vernal gentian for butterflies, the marsh gentian for humble bees, etc. The vellow G lutea contains a bitter principle, utilised medicinally for promoting digestion. Native of temperate and alpine regions of the 300 species, only five are British several yield ornamental garden varieties, notably G asclepadea, the stemless gentianella and a white threated form white throated form

Gentiles In the English Bible term usually denoting persons not of Jewish race In the Old Testament, gentile, the Hebrew word for nation, was sometimes used generally, but in other instances implied their inferiority as heathers. In the New Testament the word was used for Greeks and other non Jewish nations S Paul was the apostle of the Gentiles (Ro xi)

Genus Grouping of a number of species of plants or animals having certain constant characters in common Thus among plants the raspberry and blackberry form distinct species but yet having certain common characteristics, together form the genus rubus. In their nomenclature the generic name precedes the specific one, thus the black-berry is rubus fruticosus

Geodesy Science dealing with the measurement of the earth s surface on a large scale. Survoving for this purpose consists of triangulation, in which an area is divided into a review of triangles service of electric tramways and circular railways go up the hills at the book of the city. There are many memorials of Columbus, Genoa's greatest son. Shipping is Genoa's chief industry and for this there are large harbours and dockst equipped on the most modern lines. A vast rade passes through the port, and to deal with it the harbour accommodation was extended.

tne earth in relation to man Geography is indebted to other branches of knowledge for facts which explain or help to elucidate the problems of the physical conditions of a country and its inhabitants For example. George Name of the country and the study of existing land former in the study of existing land country and its innabiliants for example, the study of existing land forms is aided by geological evidence of former land masses, and meteorology helps in studying the effects of climatic conditions on a country Commercial geography deals with economic products of the earth, their discovery, production and effects upon marking Oceanography and effects upon mankind Oceanography, the study of the sea, has advanced greatly during recent years and gives us knowledge of currents, etc., which have their effect upon transport and commerce Historical geography is concerned with the changes in the delimitation of countries at different times in history

The Royal Geographical Society is devoted to the study of the science and, in addition to a valuable library and map room, issues a monthly Journal It has fine premises at Lowther Lodge, Kensington Gore, London, S.W. There is a Royal Scottish Geographical Society in Edinburgh, which also publishes a Journal, and the United States has influential and rich societies of the same kind The National Geographic Magazine is one of the most valuable of American publications

Geology Science dealing with the constitucrust. Having so wide a range of investigation, geology has many subdivisions, and of necessity geology has many subdivisions, and of necessary is linked to the other natural sciences. Mineralogy, the study of the mineral constituents, and petrology, the study of rock structure, form important sections of the science. The study of the relations of rock masses and strata constitutes tectonic or structural geology, while demantic or physical medicar is converned. while dynamic or physical geology is concerned with the effects of volcanic action and the forces of denudation Stratigraphical geology deals with the historical sequence of the rocks and strata, and palaeontology with the fossil contents of the beds. In the study of the nature of minerals and rocks, geology is linked on to chemistry and physics, while in palaeontology a knowledge of both zoology and botany is necessary. The microscope has become an important aid in interpreting the minute structure of rocks and minerals. The foundation of modern geology dates from the publication of James Hutton's Theory of the Earth in 1788, supplemented by the work in Britain in later years of William Smith, Sedgwick, Murchison, Geikie, Lyell and others

Geology has its economic aspect in relation to various engineering operations, the study of building stones and the search for ores To foster the interests of this science there is the Geological Society at Burlington House, London Geological Society at Burlington House, London There is also a Geological Survey, a public department, which exists to map out the strata in Great Britain Connected with it is the Museum of Practical Geology in Jermyn Street, London, W For India there is a Geological Survey with similar duties

Geometry Science dealing with measurement and the properties of space Plane or two-dimensional geometry is concerned with the properties of plane figures, while solid geometry deals with solid figures of three dimensions Some translader of the solume was leaven in another

channel with Lake Edward and has an area of about 150 sq m It was formerly called Albert Edward Nyanza Another Lake George is a salt lake in New South Wales This is It was formerly called a Another Lake George South Wales This is 55 m long and is often dry

A third lake of this name is in New York State, in the Adirondack Mts, and is 33 m long In it are many islands, and on its shores are several pleasure resorts It is connected with Lake Champlain, and is sometimes called

Horicon

George Patron saint of England and him He was probably a soldier in Cappadocia, who, as a Christian, was put to death at Nicomedia on April 23, 303, which is kept as his Nicomedia on April 23, 303, which is kept as his day The popular legend about him is that he killed a dragon and then became a preacher of Christianity In the Middle Ages he became associated with England and since the 13th century, or earlier, his festival has been kept In 1349 he was recognised as the country's patron saint and the badge of the order of the garter, as it bore his figure, is called the George Later his feat of killing the dragon was pictured on coins and medals He is commemorated by is George's chapel at commemorated by S George's chapel at Windsor and the order of S Michael and S George

George Town of the Cape Province, S Africa it is 32 m from Mossel Bay, the seat of an Anglican bishop and an important educational centre Pop (1931) 4,249

George I. King of Great Britain and Born in Hanover, March 28, 1660, he succeeded his father, Ernest Augustus, as elector of Hanover, 1698 Ernest Augustus, as elector of Hanover, 1698
His mother, Sophia, daughter of the elector
palatine and granddaughter of James I.,
was made heir to the throne of Great Britain
in 1701 She died, however, before Queen
Anne, so when, in 1714, that sovereign's life
ended, George became king He took little
part in the affairs of Britain, and in this way
contributed much to the development of the
modern idea of government by ministers
with the king as flaure head He died at modern idea of government by ministers with the king as figure head He died at Osnabrück, June 11, 1727 George married a cousin, Sophia Dorothea, but in 1694 he divorced her and kept her in prison

George II. King of Great Britain and Born in Hanover, Nov 10, 1683, and only son of the electoral Prince of Hanover who in 1714 became George I of Great Britain he spent most of his early life in Hanover In 1706 he was made Earl of Cambridge, and in 1714 he settled in England, being created Prince of Wales He was on He was on had terms with his father, who refused to have him at court, so he set up a court of his own, and those who disliked George I and his ministers, gathered round the prince and his wife, Caroline, a princess of Brunswick, whom he had married in 1705

In June, 1727, George became king, and he ruled for nearly 33 years He did not interfere much with politics, especially when he had Sir Robert Walpole as prime minister, although he was by no means a cipher and from time to time exerted himself effectually In 1743 he led an army in the field against the French at Dettingen His reign was notable for the Lacobite violence in 1745 each case of the second secon knowledge of the science was known in ancient in 1743 he led an army in the field against times but it was on Greek soil and especially the French at Dettingen His reign was notable at Alexandria that geometry flourished.

France, and it ended in a blaze of glory, with victories (1759) in three continents George and in 1893 married Mary, the only daughter died, Oct 25, 1760 His family consisted of two bons, Frederick, Prince of Wales, and the Duke of Gloucester and five daughters. Frederick died before his father, who was therefore succeeded by his grandson, George

George III King of Great Britain and Born June 4,

George III King of Great Britain and Ireland Born June 4, 1738, he was the son of Fredorick Prince of Wales, and his wife, Augusta a Princess of Saxe-Coburg His father died in 1751, and he was educated under the care of his mother and the Earl of Bute

In Oct 1760, George succeeded his grand father, George II In 1762 he made Buto prime minister, but in 1763 the carl resigned an office which he had made thoroughly un popular After this failure George found it difficult to secure a prime minister who was sufficiently decile, but he persevered, and in 1770, having formed in Parliament a party known as the king's friends, he was able to put Lord North at the head of affairs For twelve years George and North were responsible for the government a period marked by the loss of the American colonies In 1788, the king's mind gave way and his son George ly the loss of the American colonies In 1788, the king's mind gave way and his son George was appointed regent. He soon recovered, but after several further attacks he became per manently insane in 1811, and for the rest of the reign his place was taken by his son as regent. He died Jan 29 1820.

George married, in 1761 Cherlotte, princess of Mechlenburg Strelltz and had 15 children Seven of the nine sons grow up to manhood They were George IV William IV, and the Dukes of York, Kent, Cumberland, Sussex and Cambridge

George IV. King of Great Britain and Ireland Born in London Ang 12, 1762, he was the eldest son of George III, his full name being George Augustus Frederick. He was made Prince of Wales in the same year In 1795 he married Caroline of Brunswick and they had one child, Charlotte, who died in 1817 The prince soon quarrelied with his wife and for some years the relations between them were the subject of general between them were the subject of general discussion, whilst there was fresh trouble when George became king

when George became king
As Prince of Wales, George was notorious for his extravagance and his love of questionable pleasures generally. He was not on good terms with his father and became the central figure of the Whig opposition to the government, Fox and bheridan being among his friends. He acted as regent during his father s insanity in 1788. In 1811 he was again regent and this time he retained the office until he became king in Jan 1820. He reigned for ten years but exercised no great influence on public affairs. He died at Windeor June 26, 1830. George created the popularity of Brighton, where he built the royal pavillon as a residence. Mrs. Fitzherbert was his morganatic wife from 1785 until her death in 1813.

of the Duke of Teck He was Duke of Cornwan when his father succeeded to the throne in 1901, and at the end of that year was made Prince of Wales In the meantime he went to Australia to open the first parliament of the new Commonwealth He had previously travelled a good deal and between 1901 and 1910 he made other towners through the

travelled a good deal and between 1901 and 1910 he made other journeys through the Lupire, notably to India and Canada
On May 6, 1910, George became king, and on June 22, 1911, he was crowned in West minster Abbey In 1911 he was halfed as Emperor at the Durbar at Delhi On his return he took up the heavy duties of his position, which for 26 years no disensinged with remarkable skill and success not the least of his services being those rendered during the Great War A scrious illness befell him in 1928 29 In May, 1935, the Silver Jubilee of his reign was marked by much rejoicing throughout Britain and the by much rejoicing throughout Britain and the Empire He died after a short illness on 20th

Empire He died after a short illness on 20th Jany, 1936

The King and Queen had six children of whom five survive Four are sons, viz. the King Edward VIII, Albert, Duke of York, Henry, Duke of Gloucestor, and George Duke of Kent The only daughter is Mary, Countess of Harewood, who in 1932 became Princess

George V. King of Hanover Born in Borlin, May 27, 1819, he was the son of Ernest Augustus, Duke of Cumberland, fifth son of George III In 1851 George succeeded his father as King of Hanover, and he religiously until 1863 general health with 1863 grapes reigned until 1866 when, having sided with Austria against Prussia, he was expelled from his country He made his home in Austria, where he mainly lived until his death, June 12,

George Name of two kings of the Hellones George I was born at Copenhagon, Dec 24, 1845, being a son of King Christian 1x, and a brother of Queen Alexandra. He was chosen King of Greece in 1802, and reigned over that country for 50 years On March 18, 1913, he was murdered at Salonika George II was a grandson of George I He became king in Jan 1922 on the death of his father Constantine but abdicated in 1923 In 1935 he was recalled by his people and the

monarchy restored

George British prince The fourth and George Voungest son of King George V, he was born at Sandringham, Dec 20, 1902, his full name being George Edward Alexander Edmund Having passed through Osborne and The fourth and Dartmouth, he entered the navy and served with it for some years. This was followed by a spell in the Foreign Office but much of his time has been taken up with public functions In 1931 he went with the Prince of Wales to South America In 1934 he marrice trinces Manesto South America In 1934 he marrice trinces Manna, daughter of Prince Nicolas of Greece and was made Duke of Kent A son was born in 1935 George Born at Choriton on Medlock, Manchester, Jan 17, 1863, he was the son of William George, a schoolmaster Owing to his father s early death he was brought up by his need. Blebard Lloyd at Llangtundwy.

George V King of Great Britain British Ireland and the British British British Bominions beyond the Seas, and Fmperor of India Born in London, June 3, 1865, he was the second son of Edward VII then Prince of Wales, and his wife Alexandra and was baptised as George Frederick Ernest Albert. In 1877 he entered the navy and therein he served until 1892 when the death of his elder brother, the Duke of Clarence, made him heir

tion to Joseph Chamberlain and the Boer War

made him a national figure
In 1905 Lloyd George entered the Liberal
Cabinet as president of the board of trade
In 1908 he succeeded Asquith as chancellor
of the exchequer In 1909 he introduced a
budget that aroused bitter controversy, especibudget that aroused litter controversy, especially by its proposals for taxing land, which provoked a quarrel with the House of Lords by whom the budget was rejected. The up shot was two general elections in one year (1910) and the passing of the Parliament Act. The chancellor was then responsible for a great scheme of national insurance.

WAR YEARS August. Lloyd George supported the policy of declaring war Early in 1915 he left the exchequer to become minister of munitions and soon after wards helped to form the first coalition ministry. In July, 1916, he became secretary for war, and in December, dissatisfied with the way the struggle was conducted, he resigned and so brought the coalition ministry to an end After negotiations, he himself became prime minister, with the Unionists under Mr Bonar Law as his chief colleagues As premier Lloyd George introduced certain innovations into the government. He handed over the leadership of the House of Commons to a deputy, filled some of the chief offices of state with business mon and formed a small cabinet, inside the larger one, to conduct the war In 1919 he was Britain's chief representative at the peace conference at Versailles He was supported by the verdict of the country given at an election in which women voted for the first time, a policy for which he was responsible

POST-WAR His premiership ended in Oct, 1922, when the Unionists withdrew from the coalition Now estranged from the main body of the Liberals, but possessing party funds of considerable size, Lloyd George with a few fellowers occupied a detached position until a remner with the other Liberals was effected rounion with the other Liberals was effected in 1923 In 1926 he was chosen as the party leader, but there were Liberals, both inside and outside parliament, who refused to accept him The election of 1929 placed the balance of power in the hands of the Liberals, but it was found impossible to secure complete unity among them. He published his War Memors in 1933-35 Early in 1935 he launched his "New Deal" proposals, an extensive scheme for National reconstruction, and in July inaugurated a "National Council of Peace and Reconstruction"

In 1888 Lloyd George married Margaret Owen A son, Gwilym, and a daughter, Megan, were elected to Parliament in 1929 and again

in 1931 and 1935

George Henry American economist Born at Philadelphia, Sept 2, 1839, he started his career as a printer, but later took to journalism He made a study of economical questions, and in 1871 published our Land Policy. It was amplified in Preserve Our Land Policy It was amplified in Progress and Poverty 1879, in which he advocates land nationalisation to be effected by means of a single tax He died Oct 29, 1897

Georgetown Seaport and capital of British Guiana It is near the mouth of the Demerara River It is There is a good harbour and shipping is the main industry Georgetown is sometimes called Demerara, its old name is Stabroek Pop (1931) 62,690

George Town Capital and scaport of Penang, Straits Settlements It stands on the Island of Penang, a British possession, and has an excellent harbour Shipping forms the chief industry Pop 101,000.

Georgia Soviet republic, linked with the Soviet Union at Moscow In the Caucasus area, it lies between the Black Sea, the Caucasus Mts and Armenia, and covers 26,386 sq m Tiffis is the capital, other places are Ratum and Poti Agriculture is the chief industry but the production of the chief industry, but the production of man ganese and other minerals is important. Much land is covered with forests There is a railway

system of about 600 m owned by the stat-In early days Georgia was conquered by Alexander the Great, but in 302 it became an independent country and a little later adopted Christianity In spite of invasions, its people retained their independence until, in 1801 to save themselves from the Turks, they placed themselves under the protection of Russia Their last king soon disappeared, and the country became a part of Russia

In 1918 a republic was set up in Georgia and in 1921 the Soviet form of government was adopted In 1922 it united with Azer baijan and Armenia to form the Trans Cauca sian Federation of Socialist Soviet Republics

sian Federation of Socialist Soviet Republics It includes the little Soviet republics of Abkhasia and Adjaristan Pop (1931) 2,883,200

Georgia Southern state of the United States, one of the 13 original members of the union, it has a coastline on the Atlantic Ocean, fringed by a number of islands It covers 59,265 sq m Atlanta is the capital, other places are Savannah, the chief seaport, Augusta, Macon and Columbus The state produces cotton and maize, tobacco and fruit. Much of the land is covered with forests, and there are important fisheries forests, and there are important fisheries and mines The chief rivers are the Savannah, Altamaha and Ogeechee

Georgia was settled by George Oglethorpe who made it a home for debtors, the first band arriving in 1733 He named it after George II It entered the union in 1788 In 1861 the state seceded, but it was admitted again in 1870 It is governed by a legislature of two houses, and sends two members to the Senate and 10 to the House of Representatives at Washington Pop (1930) 2,908,506

Georgian Architectural style adopted in Great Britain during the Georgian period, 1714-1820 It was due largely to the influence of Sir Christopher Wren While following the classical tradition as transmitted through the Renaissance, Georgian transmitted through the Henaissance, Georgian architecture developed its own special treatment seen in its simplicity of plan and elevation, and among other things the usual addition of a Greek portico to a building Georgian Bay of Lake Huron Its

waters are entirely Canadian and parts of the province of Ontario cut it off almost wholly from the main part of the lake It is 120 m long and 50 m across and some of the rivers of Ontario flow into it The Trent Valley canal connects it with Lake Ontario

The Georgian Bay Canal, as yet incomplete, is intended to unite Georgian Bay with the S is intended to unite Georgian Bay with the S Lawrence at Montreal, thus bringing the Great Lakes 800 m nearer to that city and to Europe Georgics Poem by Virgii In Greek the word means husbandry, and the poem deals with pastoral life If was written about 40 B c, and is in four books

Geranium Genus of herbs native to temperate regions. They Geranium Genus of herbs native to temperate regions. They have regular flowers generally rosy, purplish red or blue in colour, and divided leaves, cleven native British species are popularly called crane's bill Many exotic forms are favourite gardon varieties. Allied herbs, with irregular flowers, varying in colour from scarlet to white, form the distinct genus pelargonium. In popular and nurserymen's usage such discarded names as scarlet and ivy-leaved geranium are used for cultivated varieties of pelargoniums brought from S varieties of pelargoniums brought from S Africa. See CRANES BILL, PELARGONIUM

Germ Rudimentary form of a living thing, whether plant or animal, the vital particle from which an organism may develop It is also used for the origin or first principle of anything Some germs, those from decaying matter, for instance, are in jurious to health and preparations used to destroy these are called germicides

German Catholics Religious comrated from the Roman Catholic Church in 1844 Led by two ex priests, Johann Rongo and Johann Czerski, it repudiated clerical cellbacy and aimed at breaking the papal power in Germany Restrictions were placed upon the dissidents, internal dissensions arose, and a dwindling remnant joined the ration alistic body of Free Congregations in 1859

Germanicus Caesar Roman soldler Born in 15 B C, he was a nephew of the Emperor Tiberius and was early put in command of an army He fought against the Gaulish and Germanic tribes, winning a great victory over Arminius in AD 16 Afterwards he was sent to Asia and he was at Daphne near Antioch when he died in A D 19, perhaps by poison Germanicus was the perhaps by poison Germanicus was the father of Caligula and the grandfather of Nero

German Measles Contagious dismostly in children Also called rubella, it is usually mild and is characterised by a pink eruption Although somewhat resembling both measles and scarlet fover, it bears no organic relation to them Its cause, bacterial or otherwise is undiscovered There may be headache, shivering a little catarrh and rise of temperature, not above 100°F followed by a slight rash which disappears within a week, during which confinement to bed and thorough isolation are necessary

German Silver Silver white alloy known as nickel silver, it is composed of varying proportions of copper, nickel and zinc Whon first prepared it has a crystalline structure but after careful annealing it becomes malle able and can be worked like brass It is harder than silver and takes a ligh polish, but acquires a yellow tarnish after exposure to air German silver is used largely as a basis for electro plated goods such as spoons forks, etc.

German Volga Republic Soviet Republic One of eleven autonomous republics in the Russian Socialist Federal Soviet Republics it was created in 1924 It is enclosed by the Lower Volga Area except in the south-east The government is by Central Executive Committee and Council of Peoples

Scholars regard it as a perfect example of Commissaries, the capital being Pokrovsk on style and thought. Commissaries, the capital being Pokrovsk on the Volga, with a population of 34,352 There are railways running from Moscow to Astrakhan and Uralsk, with a junction at Urbakh Tho chief crops are wheat, barley and rye, and there are agricultural and peasant industries

Germany Federal republic of Europe It occupies an area of 181,699

sq m in the central part of the continent, its boundaries being settled by the treaty of Versailles Its coastline on the Baltic Sea and a shorter one on the North Sea, together amount to some 1200 m. Its land frontiers touch France, Beigium, the Netherlands, Denmark, Poland, Czeohoslovakia, Austria and Switzerland Much of the country is a great plain, but in the centre, south-cast and west are ranges of mountains, the Harr and west are ranges of mountains, the Harz the Black Forest, the Erzgebirge and the Taunus The highest peaks are in the south rating The lighest peaks are in the south west, where are some Alpine ranges there a few exceed 2000 ft. in height The chief rivers are the Rhine, Elbe Weser, Oder and Maine, but there are many others, for the land is well watered There are lakes the largest being Bodensee The land includes Rügen and other islands in the Baltic, and the Frisian Islands in the North Sea

TERRITORIAL DIVISIONS The German TERRITORIAL DIVISIONS The German federation consists of 17 states Much the largest is Prussia, which occupies more than half the total area Next in order of size are Bavaria, Württemberg, Baden, Saxony, Mecklenburg Thuringia Hesse, Oldenburg and Brunswick The others, which include three fine cities, Hamburg, Lübeck and Bremen, are all less than 1000 sq m in extent Berlin is the federal capital but the supreme court sits at Leipzig. at Leipzig

The area includes the Saar district, which in 1935 by a plobiscite vote returned to Gormany Berlin is the most populous city and Hamburg the greatest scaport There are no fewer than 51 other cities with over 100,000 no rewer than 51 other cities with over 100,000 inhabitants, and eight of these, Cologne, Munich, Leipzig Essen Dresden, Breslau, Frankfort on Main and Dortmund, have each over 500,000 The total population is 66 044 161 or 363 to the square mile Of these 40 000,000 are Protestants mainly Lutherans and 20,000,000 Roman Catholics Since 1918 there has been no state church. The education is of a high standard. Those are 23 universities. is of a high standard There are 23 universities

and many technical and other collects

CONSTITUTION The constitution provides
for a president and two houses of parliament
the Bundestat and the Reichstag The former the Bundestat and the Reichstag. The former consists of 66 members representing the states, Prussia electing 26. The latter consists of a varying number of members elected by all adult males and females. A cabinet that carries on the work of government is responsible to the legislature. The president is elected by all voters and holds office for seven years. The republican flag is black, white and

red ECONOMICS Germany is an agricultural country and a large part of it is well farmed Rye oats, wheat, barley and notatoes are produced on a large scale and great numbers of cattle are kept Pigs are reared but sheep are its plentiful The vine is grown in the warmer districts as is tobacco Large areas are left to forests, and forestry is conducted on recentific lines The fisheries, especially in the North Sea, are important

Certain parts of Germany are rich in coal and other minerals and there the great manu facturing centres have sprung up Westphalia

and Silesia contain the coal mines Iron ore is produced in Silesia and in the Harz, where silver is also mined Iron and steel are manufactured in the great towns of Westphalia and the lower Rhineland, part of Prussia and to a lesser extent, in Thuringia. Saxonv is the chief centre for the production of cotton, woollen and other textiles. Berlin is famous for its production of electric appliances The chemical industry is flourishing and the production of clothing and foodstuffs employs a large number

of people Germany has an extensive and unified railway system, owned by the state but managed by a private company. Its canals have a length of 4,684 m (1933) Shipping is another great industry, Hamburg is the largest port with Bremen, Stettin and Emden next in important of the contract the state of the street than 1990. ance Owing to the size of the rivers there are many flourishing river ports. Germany has a central bank, the Reichsbank, and four other banks have the right to issue notes. Since 1924 the currency has been on a gold basis, with the reichsmark as the unit The metric system of weights and measures is used

HISTORY For centuries Germany was little more than a geographical expression. It was divided into some hundreds of states, each with its own ruler They owned allegiance to the head of the Holy Roman Empire, who was also German king, but as the years went on he became less and less concerned with Germany In the 17th century this area of Europe was rayaged by the Thirty Years' War In 1815 a federation of the German states was established but this only lasted until 1866. Its place was then taken by the North German Confederation, in which Bavaria and the states of the south had no part

In 1871 the German Empire was founded, the king of Prussia becoming emperor This included all the German states except Austria. After a flourishing career, it fell to pieces as a result of the Great War, when Germany, by the Treaty of Versallics, surrendered Alsace-Lorraine to France, parts of Silesia, Prussia and Posen to Poland and Czechoslovakia, and small areas to Denmark and Belgium Danzig was formed into a free state Altogether Germany ceded 27,252 sq m and 6,500,000 people. She also surrendered her colonies in Africa and the

South Seas

The first president of the republic was Friedrich Ebert, under whom the country was in a deplorable condition, both politically and financially The mark fell to nothing and the failure to pay reparations led to the occupation

of the Ruhr district by the French

An improvement began in 1923 when Gustav Stresemann became chancellor. Reform of the currency was followed by the signing of the Pact of Locarno and the entry of Germany into the League of Nations In 1925 Hindenburg was elected president and the Dawes plan for the payment of reparations worked for a time The death of Stresemann in Oct, 1929, marked the beginning of a change for the worse Like other countries Germany was badly hit by the economic depression She declared herself quite unable to make reparation payments and there was a good deal of political unrest. Under Adolf Hitler a party called the Nazis became very strong and there was talk of a restoration of the monarchy. The Nazis came into conflict with the authorities about the wearing of their was a second by the second to be a second to uniform, etc., and Bavaria threatened to leave the tederation In 1932 Hindenburg was re-elected president but Brüning, who had proved the federation In 1932 Hindenburg was re-elected president but Brüning, who had proved a capable chancellor, was forced to resign His of the jewels of English prose

successor, von Papen, represented the country at Lausanne in July, 1932, when the question of reparations was settled, Germany undertaking in return for their abandonment to make a payment of £150,000,000 to a fund for European reconstruction In the presidential election of 1932 Hitler and his party won great successes at the elections in Bavaria and other parts of Germany From that time the Nazis gradually gained ascendency until March, 1933, when Hitler (q,v) became dictator Germany resigned from the League of Nations and from the Disarmament Conference in 1933 owing to the refusal on the part of the other Powers to grant equality of status in armaments In Feb , 1934, Germany was completely unified by a law remodelling the constitution, and vesting in the Reich the sovereign rights hitherto belonging to the Federal states In Aug of the same year Hindenburg died, and Hitler became President as well as Chancellor In 1935 Gormany's policy was censured by the League of Nations

Germiston Town of the Transvaal, S Africa It is 36 m from Pretoria and 9 from Johannesburg On the Rand, it is an important mining centre, with gold refineries and manufactures of chemicals, cereal products, etc Here is the station which supplies electric power to the mines (1931) 23,953 whites

Gerrard's Cross Village of Bucking hamshire Itis 4 m from Beaconsfield and 18 from London. There is a fine common Pop 2200

Gerrymander American expression, which has been adopted into the English language, and denotes the arrangement of election districts in such a way that an unfair advantage is given to the party in power The word is derived from Elbridge form, an American politician, and "mander" in "salamander," one of the districts in Massachusetts formed when Gerry was governor, having an alleged resemblance salamander

Gesso Form of applied decoration. It is used to ornament small boxes, bowls and other household articles, but can also be used, as it was in the Queen Anne period, for mirrors and chairs Gesso powder is a pasto composed of plaster of Paris and give

Plantation at the foot Gethsemane of the Mount of Olives Thither our Lord retired across the Kidron after the Last Supper with His disciples, it witnessed the agony and the betrayal The traditional site is now in Franciscan hands, an ancient cave adjoining being the reputed Grotto of the Agony

Gettysburg Town of Pennsylvania, railway 70 m from Washington and was named after James Gettys, a general in the War of Independence Near here, on July 1-3, 1863, one of the decisive battles of the American 1863, one of the decisive battles of the American Civil War was fought, when the Southern general, Robert E Lee, was defeated by the Northerners under Meade The battle was flercely contested for three days, and in the end Lee was forced to retreat, but his genius enabled him to get his army across the Potomac. In Nov, 1863, part of the battlefield was dedicated as a national cemetery, and in this are several memorials. On this occasion Lincoln

Genus of hardy rosaceous peron rolls It is of dwarf growth, and contains many species The variety G avens, contains many species The variety G avens, has handsome targely grown in gardens, has handsome showy flowers, Mrs Bradshaw (scarlet) and showy flowers, Mrs Bradshaw (scarlet) and Stratheden (yellow), being popular lady Stratheden (yellow), being popular varieties Several species including G replans and G montanum are useful in the rock garden and G montanum are **GEUM** and G montanum are useful in the rock garden and a montanum are useful in the rock gurden. The wild herb bennet, or wood avens, G urbanum, has small yellow flowers and its aromatic root possesses medicinal qualities.

aromatic root possesses meanering hot spring Geysel It is characterised by riolent and explosive eruptions of steam and boiling and explosive eruptions of steam and geysers alternating with quiet periods. and explosive eruptions of steam and boiling Geysers water alternating with quiet periods Geysers in volcanic areas in New Zealand, with Yellowstone Park, Wyoming, USA, the Yellowstone Park, wyoming, USA, and in Iceland They are due to the gradual heating of water in cavities and fissures in the heating of water under high pressure displaying out large quantities of silica. When solving out large quantities of silica. When sufficiently high temperature is reached, a sufficiently high temperature for obtaining a Also a domestic apparatus for obtaining a

violent ebullition of steam is produced

Also a domestic apparatus for obtaining a
quick supply of hot water
cylinder containing a coll of copper or brass
tubing connected with the water supply, and
tubing connected with the water supply, and
tubing connected with the water supply of the container is an arrangement of beneath the container is an arrangement of atmospheric gas the coll is heated rapidly stream through the coll is heated rapidly

Stream through the coll is heated rapidly

Chats Mountain ranges of India, enclosing

Chats the Decean tableland The East

Chats average 1500 ft in height and comprise

Ghats average 1500 ft in height and comprise

Madras coust from Orlssa to the Nilgiri hills

Madras coust from Orlssa to the Nilgiri hills

The West Ghats, averaging 3000 ft in height,

The West Ghats, averaging 3000 ft in height,

range of trap rocks, and stretch from the Tapti

range of trap rocks, and stretch from the Tapti

range of trap rocks, and stretch from the Tapti

range of trap rocks, and stretch from the Tapti

range of trap rocks, and stretch from the Tapti

range of trap rocks, and stretch from the Tapti

range of trap rocks, and stretch from the Tapti

range of trap rocks, and stretch from the Tapti

or light south for 800 m to the Palghat gap

valley south for 800 m to the Palghat gap

range of trap rocks, and stretch from the Tapti

or light so of steps along the Gangles notably

are frequently seen along the Ganges notably

are freque

at Benares, where are the purming ginus, the Hindu s cremation ground Hindu s cremation ground Turkish title of honour Turkish title of honour meaning from an Arabic word meaning who has a ghazi is a Mohammedan who has reveal to exterminate unbelievers by the "warrior" a ghazi is a Mohammedan who has rowed to exterminate unbelievers by the sword The Turks use it, meaning victorious, as a title of honour for military officers who have distinguished themselves against non Mohammedan foes. It is especially applied to Mustapha Kemal (q v)

applied to Mustapha Kemal (q v)

Ghazni City of Afghanistan It stands to the form Kabul, and is on the caravan route from Kabul, and is not the caravan route persia and is not the caravan route not the persia and is not the caravan route form the persia and is not the capture of the capital of a great empire once the capital of a great empire once the capital of a great empire it was destroyed about 1220 by the Mongols and near it the new city was built. It has many shrines it the new city was built. It has many shrines features of interest of puring the Afghan Was features of interest Ghazni was taken by the British in 1830 and in 1842

The dynasty of the Ghaznevids was founded in 1842.

The dynasty of the Ghaznevids was founded in 962 and ruled at Ghaznevids.

The Ghaznevids was founded in 962 and ruled at Ghaznevids was founded. in 902 and ruled at Ghazni until 1184 when the Ghur dynasty took its place. The Ghaz hevid Empire covered a great part of Asia, its most famous member was Mahmud, whose court was renowned for its culture and magni-

ficence

Town of Belgium 28 m from from It is a centre to living by lineanc persons have been sent since the 13th incanc persons have been sent since the 13th fineanc persons have been sent since the 13th incanc persons have been sent since the since the sent world, which he designed for the haptistery at the designed for the haptistery at world, which he designed for the haptistery at world at

inspectors in attendance Pop (1932) 18,545

Cheluvelt Village of Flanders, 4

Menin Being in the Ypres, on the road to from Ypres, on the road to almost constant fighting here from 1914

This was especially desperate during the first battle of Ypres, towards the end of 1918, and in the spring of 1916

The Was taken and retaken also in 1917 and 1918

Was taken and retaken also in 1917 and 1918

Worcestorshire Regiment made its famous stand

Ghent 32 m from Brussels, at the junction of the Rivers Lys and Schelde It is also a of the Rivers Lys and schelde it is also a contract the schedule of the Rivers Lys and schedule it is also a contract the schedule of the milway junction, and a ship canal connects it with the sea Branches of the rivers and canals flow through the city, adding much to its flow through the city, adding much the pleturesque appearance, and over these their building are more than 200 bridges. The chief building are the cathedral, with its altar piece painted by the Van Eyoks, the hotel de ville, the law by the Van Eyoks, the hotel de ville, the law courts, a modern building and the belify, an courts, a modern building and the belify, and of one There are several museums of the historic buildings are the Château du Diable, historic buildings are the Château du Diable, a 13th century building, the Great Beguinage a 13th century building. There is a castle, and the residence of the Counts of Flanders once the residence of the Counts of Flanders of Flemish culture. The French call the city Gand with the sea Branches of the rivers and canals

Ghent has cotton, linen and other manu factures, and its industries include also en gineering works and sugar refining. The market is famous and there is a large transit trade. In the neighbourhood many flowers are grown for expert.

for export.

In the 13th century Ghent became a flourish ing trading centre, and, for the next 300 years, ing trading centre, and, for the next 300 years, ing trading centre, and, for the next 300 years, ing trading centre, and, for the next 300 years, ing trading centre, and, for the next 300 years, ing trading among the most in Europe its elization. Here the being among the most independent the 16th Emperor Charles V was born In the 16th Emperor Charles V was destroyed by the century its prosperity was destroyed by the century its prosperity was destroyed by the century its prosperity was destroyed by the 15th, in 1814 a 15th, in 1814 i

Ghetto Part of a city or town inhabited by Jows The English equivalent

Ghibelline Political party that flourished in Gorman, and Italy in the Middle Ages It is a corruption of Waiblingen the name of a castle owned by Conrad III, the German Ling and a member of the Hoben. the name of a castle owned by Conrad III, the German king and a member of the Hohen staufen family Conrad's followers, in a fight staufen family Conrad's followers, in a fight of Bayaria used Waiblingen as a battle cri in opposition to the enemy of Welf These names became corrupted by the Italians to Ghibelline and Guelph The Ghibellines became the name of the parti by the Italians to Ghibelline and Guelph The Ghibellines became the name of the party opposed to the Guelphs, on whose side the Pope was usually found The feuds between the Guelphs and the Ghibellines lasted for over 2000 2007

Charles of the horizontal and th

GHOST h 1419, " Domenico apprentice THUST master of excellent He died Hb k

Novella Rome : Gho is wid amons to a : a par pour Cours

auth 0002 rieli G ge Da

in 1449, Ghirlandajo, whose full name was Domenico Tommaso Corrado Bigordi, was apprenticed to a goldsmith and studied painting under Baldovinetti He was for a time the master of Michelangelo He painted many excellent frescoes and also works in mosaic. He died Jan 11, 1494

His hest frescoes are in the Sassetti Chapel in S Trinità and the choir of Sta Maria Novella, Florence Other works of his are in

Rome and the Louvre, Paris

Ghost Disembodied spirit said to appear to the living The beller in ghosts is widespread and is found in all ages and amongst almost all peoples Some are attached to a particular house, perhaps associated with a particular crime and appear at a particular hour Certain families have their ghosts Some of these appearances are apparently well authenticated, but the explanation must be sought in the mental condition of the person

visited by the ghost.

Ghoul Malignant Oriental spirit supposed to frequent burial grounds for the purpose of feeding on corpses The word, derived from the Arabic chul, is used also to describe one who delights unnaturally in

horrors

Giant Human being of abnormally great stature Greek mythology describes beings of monstrous size and strength, eg, Briareus and Polyphemus Giants appear in the Old Testament, notable ones being Og and Gollath, and their exploits are a favourito subject in the folklore of most European countries, where giants are usually wicked and come to an ignoble end Bunyan introduces giants into his immortal allegory

Charles Byrne, an Irishman, who lived in the 18th century, was 7 ft 9 in in height In 1905 a Russian named Machnov, was exhibited in London, he measured 9 ft 3 in

Giant's Causeway Columnar mation on the north coast of Co Antrim, Ireland Situated 2 im NE of Bushmills, it is divided by whin dykes into the Little, Middle and Grand Causeway, and simulates a pier 700 ft long, 350 ft. broad, and 30 ft high, and composed of 40,000 perfectly-fitting, accurately-jointed polygonal pillars from 15 to 20 in across The so-called Giant's Organ adjoins It is said to have been caused by cooling and basalt for-It is said to have been caused by cooling and cracking lava

Giant's Kettle, or giant's cauldron, is the popular name for a glacial pot-hole These cylindrical holes were caused in rocks by sub-glacial streams, laden with gravel, etc. There are examples in the Alps and Germany

Gibbet Wooden upright with projecting beam for hanging malefactors in chains or irons after execution Recognised by law in 1752, the practice ceased in 1834 Gibbet law entitled Halifax, in Yorkshire, to execute thieves on a primitive guillotine called the Halifax gibbet, this operated between 1541 and 1650 See GALLOWS

Gibbon Genus of manlike or anthropoid napes (hylobates) Native to the Gibbon Genus of manlike or anthropoid apes (hylobates) Native to the Indo-Malay region and normally about 3 ft. high, they are slenderly built and tailless, with naked callosities on the buttocks, and arms reaching to the ankles Though frequently walking upright on the ground, they are tree dwellers and are gregarious, noisy and extraordinarily agile The largest is the Sumatra siamang, others are the Burmese whitehanded gibbon, the Assamese hoolock, the

Sinmese crowned or tufted gibbon, and the Javanese silver wou-wou Although readily tamed, they do not live long in Europe.

Gibbon Edward English historian He at Putney, April 27, 1737, and educated at a private school, then at Westminster, and in 1752 he went to Oxford for a short time From 1753-58 he lived at Lausanne Returning to England he lived in Hampshire, where he served in the militia, and in 1761 wrote in French his Essay on the

Study of Literature
In 1763 Gibbon visited Rome and there decided to write his immortal work which he called The Decline and Fall of the Roman Empire He did not actually begin it, however, until 1772, and the first volume was not published until 1776 For eleven further years the last four in Switzerland, he worked at it and finished it on June 27, 1787, a passage in his Autobiography describing his emotion on that memorable night. The last three volumes were published in 1788. In 1793 he returned to England, and died in London, Jan 16, 1794.

Gibbon's Decline and Fall is one of the world's great books Its stately and sonorous style would, alone, make it worth reading, but it is equally notable for the brilliant epigrams in which the writer generalises, from time to time, on the events he is relating. As history, it is by no means obsolete, although on some points its facts have been corrected by more recent scholarship. It remains, however, a unique and memorable piece of work of a kind which will, in all probability, never again be attempted. The best edition is edited by J B Bury

Gibbons Grinling English wood carver. Born April 4, 1648, in Rotter-dam, he early came to London John Evelyn introduced him to Charles II, and his work soon became widely known He worked for Wren, carving the choir stalls in S Paul's Cathedral, and other work by him is in Canterbury Cathedral, Windsor Castle, Chatsworth and elsewhere His carvings in many churches and large houses show great delicacy of work and truthfulness of imitation, his designs being chiefly of follage, flowers, fruits and birds He died in London, Aug 3, 1721

Gibbons Orlando English composer Cambridge in 1583, he became a chorister at King's College there In 1604 he was appointed organist of the Chapel Royal and in 1623 became organist of Westminster Abbev He died June 5, 1625, at Canterbury, where he had gone, with some music composed by him for the occasion, to attend the reception of Henrietta Maria, the wife of Charles I He wrote some beautiful chamber music and madrigals, but is best known for his church music, some compositions

of which are still in general uso

Gibeon Ancient town in Palestine Situtions of which are still in general uso

Gibeon Ancient town in Palestine Sitution at the still in general uso

N W of Jerusalem, it was an important Hivite stronghold, whose inhabitants tricked Joshua into granting a truce (Jos ix) Here David's and Ishbosheth's champions fought, here Joab murdered Amasa, and here Solomon offered sacrifices and obtained the city.

2 sq m. The town is divided into the north town and the south town The chief buildings are the Arglean Cathedral, several churches are the castle, there are also barracks, residences for the officials, and other buildings and the nublic service, as well as a racecourse and the nublic service. the public service, as well as a racecourse and other sporting attractions Gibraltar is strongly other eporting attractions Gibraltar is strongly fortified and has a large and safe herbour, has a large and safe herbour, which is a station of the British fleet. The which is a station of the who is assisted by which is under a governor, (1931) 21 372 colony is under a governor, (1931) 21 372 and executive council Pop (1931) 21 372 and executive council Pop (1931) 21 372 and the harden coast opposite is Mount Abyla, Facing the sea is the Rook of Mount Abyla, the two being known to the ancients as the pillars of Hercules which lead from the pillars of Gibraltar which lead from Straits of Gibraltar which lead from Straits of Gibraltar which lead from Atlantic Ocean into the Mediterranean Sea Atlantic Ocean into the Straits are only a macross

9 m across
Owing to its position, Gibrultar has always
been a coverted stronghold. For some centuries
there is a coverted stronghold to the Moors In 1462 it
been a coverted stronghold to the Moors In 1462 it
siter 711 it belonged to the Moors In 1462 it
was taken by the Castillans, and was part
of Spain until captured in 1704 by a British and
of Spain until captured in 1704 by a British and
of Spain until captured in 1704 by a British in 1704 fleet under Sir George Rooke
of Rooke
of The Castillans, and the fleet in 1713 it was sur
french and Spaniards and in 1713 it was sur
french and Spaniards and in 1713 it was sur
french and 55 but in vain and in 1713 to Spaniards
in 1704-05, but in vain and in 1713 to Spaniards
in 1704-05, but in vain and another and greater
rendered to Great British In 1738 the Spaniards
again besieged it, and made another and sleep
again besieged it, and made another and a sleep
attempt in 1779 whom they began a sleep
that lasted for over 3 years, ending in Fobthat lasted for over 3 years, ending in Fob-

Gibson Charles Dana American artist Rosbory, Mass Sept 14, Rosbory, he studied in New York and Paris and Raristic career by contributing illustrations to various periodicals. His drawings of a type of American girl, the Gibson girl trations to your popularity Later he turned of a type of American girl, Later he turned to portrait pointing in oils to portrait pointing in the Gibson Girl to portrait pointing in the Gibson Girl to portrait pointing in the gentless of the controlling interest in Life.

chased the controlling interest in Lyc.

Gibson John British sculptor Born in British sculptor I years to were passed in Liverpool where he began to were passed in Liverpool where he began to carve In 1816 he exhibited his first place of carlyture in London and then studied in exulpture in London and He spent most of the life in that city and died there Jan 24. his life in that city and died there Jan 25. So He was elected A R A in 1833 and R A 1866 He was elected A R A in 1833 come of his in 1836 Gibson left his money and some of his his life in that city and died ones and RA 1866. He was elected A R A in 1833 and R A in 1836. Gibson left his monoy and some of his works to the Royal Academy and they are now in the Gibson Gallery at Burlington House, Lordon

unequal Le Relour du Tenca appeared in 1928

Cidea Park Romford, 15 m from

London on the LNE Riv

London on the LNE Riv

London in 1910 was sold and laid out as a park around a residence called Gidea which in 1910 was sold and laid out as a which in 1910 was sold and which in 1910 w

Old Testament, and a consequent confusion of two heroes, Gideon and Jerubbaal (Judges,

Giggleswick Village of Yorkshire from (WR), 14 m from (WR), 14 m from Skipton, on the LMS Riy The Ribble flows by it It is famous for its school founded in 1507 and now a large public school It has a by it it is famous for its school founded in 1507, and now a large public school it has a beautiful chapel designed by Sir T G Jackson beautiful chapel designed by Sir T G Jackson

beautiful chapel designed by Sir T G Jackson
G1lbert Group of islands in the Pacific
G1lbert Ocean They belong to Great
Britain which annexed them in 1915 and are
not the Gilbert and Ellice Islands Colony
part of the Gilbert and Ellice Islands Colony
and lie on the cquator There are many
islands but only 18 are inhabited
166 sq m and produce copra, phosphates and
fruit The government is in the hands
fruit The government is in the hands
fruit The government of the Westorn
to the high commissioner of the Westorn
to the Pop (1930) 24 800
C11bert Sir Alfred English sculntar Rome

Pacine Pop (1930) 24 200

G1lbert Sir Alfred English sculptor BornG1lbert in London, Aug 12, 1854, ho
studied in London Parls and Rome, first
studied in London Parls and Rome, In.
actibiting at the Royal Academician,
crhibiting at the Royal Academician,
and 1900 09 was Professor of Sculpture at the
and 1900 09 was Professor of Sculpture one of
Royal Academy Gilbert is considered one of and 1900 09 was Professor of Soulpture at the Royal Academy Gilbert is consucred one of Royal Academy modern knglish sculptors. It was a support of the greatest of works are the Eros kount. In Piccadilly, the Kiss of Victory, and the Piccadilly, the Kiss of Victory and Statues of Queen Westminster, and of Queen Statues of Royal Westminster, and of Alexandria at Mariborough House Gilbert was Alexandria at Mariborough House Gilbert was knighted by the King in June, 1932 Ee died knighted knighted by the King in June, 1932

on 4th Nov , 1934

Gilbert Sir Humphrey English navigator the was born about 1639 at Dark mouth and was oducated at Eton and Oxford mouth and was educated at Eton and Oxford
He fought against the French in 1563 and in
He fought against the French in 1563 and in
Ireland in 1566, being given a command in
Munster in 1569 In 1570 he was knighted, 162
was MP for Plymouth in 1571, and in 1574
was MP for Plymouth in 1571, and in the
led an unsuccessful expedition into the Notherlands In 1578 he was granted a charter by the led an unsuccessful expedition into the file lands. In 1578 he was smalled a charter by file lands to discover and establish a colony. lands In 1578 he was granted a charter by the queen to discover and establish a colony IIIs first expedition was a failure but in 1353 he took possession of Newfoundland where the founded a settlement. The Squirrel, he founded a settlement when the smaller of his ressels in which he was returning to England foundered, Sept. 9, 1583, and all were lost

were lost

Gilbert at Logan Utah July 30 1897 he

Gribert at Logan Utah July 30 1897 he

worked as a writer director and edutor of
motion pictures. In achieved fame as an
motion pictures. Big Parade, The Merry
arronent of passion in Big Parade, The Merry
if idon, Flesh and the Devil, and other pictures.

If idon, Flesh and the Devil, and other pictures.

If ided in 1936

Gilbert Sir John Fnglish painter and Gilbert Sir John Fnglish painter and Burn at Blackhouth. It is a superior of the Burn at Blackhouth. It is a superior of the Burn at Burn at Burn and Sir at In abridoned business to teach himself art. In abridoned business to teach himself art. In 1871 he was knighted and 5 years inter was 1871 he was Another honour was the presidence of the Royal Society of Painters in Watercolour Ho died Oct 5, 1897 dilbort worked both in oils and watercolours but his worked both in oils and watercolours but hest work was done as an illustrator of periodical superior of the superior of the Burn and Watercolours but his worked both in oils and watercolours. worked both in oils and watercolours but his best work was done as an illustrator of periodicals and books, notably Shakespeare 8 plays and the works of Corvantes and Scott Many of his pictures are in the Guildhall London

garden city Raphael Park is an open space and the works of Corvantes and Scott. Many and the works of Corvantes and Scott. Many and the works of Corvantes and Scott. Many and the Many and the works of Corvantes and Scott. Many the property of this pictures are in the Guildhall London in the property of the property

Bab Ballads, and produced, in 1866, his first play, a burlesque, Dulcamara, which was followed by many others These include the comedies Pyomation and Galatea and The comedies Pygmalion and Galatea and The Wicked World, also several dramas of a more serious kind In 1871 he began to work with Sir Arthur Sullivan (qv), the composer, and from 1875 to 1896 they produced a series of topical comic operas, which had an instant and sustained success They include Patience, Iolanthe, The Mikado, H M S Pinafore, Trial by Jury, The Pirates of Penzance, The Yeomen of the Guard and The Gondoliers For these Gilbert wrote the words which contain many Gilbert wrote the words which contain many references to the law Gilbert was knighted in 1907, and was drowned May 29, 1911

A Gilbert and Sullivan Society has been a conded to keep alive the interest of the plane.

founded to keep alive the interest of the plays

Gilbertines English monastic order Founded by S Gilbert at Sempringham, Lincolnshire, in 1135, it at Sempringham, Lincolnshire, comprised nuns following the Cistercian form of the Benedictine rule, and Augustinian canons regular They lived in double monasteries, stringently segregated, and received papal approbation in 1148 Their habit was black with lamb's-wool lining and a white cloak. The superior was called the Master of Sempringham At the founder's death in 1189 there were 13 monasteries, with 1700 members, at the Dissolution in 1537 there were 25

Gilbey Sir Walter British merchant Born at Bishop's Stortford, May 2, 1831, he began his career in an estate agent's office at Tring Later he and his brother en-tered business as wine merchants In 1867 the firm acquired possession of the Pantheon in Oxford Street, London, and in 1875 purchased vineyards in the Médôc district of France and two whisky distilleries in Scotland Gilboy, who became a baronet in 1893, was also interested in the breeding of shire and other horses, and was President of the Royal Agricultural Society in 1895 On his death, Nov 12, 1914, the baronetcy passed to his son

Gildersome (WR) It is 5 m from Leeds, on the LNE Rly Coal mining is the main industry Pop (1931) 3041

Mountainous region east of the Jordan Separated from Moab Gilead on the south by the Arnon, its usual northern boundary was the Yarmuk, but the Old Testa-ment sometimes extends Glicad to Hermon

Giles Patron saint of beggars, cripples and lepers He is said to have been born towards the end of the 7th century and to have been of a noble Athenian family Emigrating to France, he lived the life of a hermit, and founded an abbey near Nimes His day is celebrated on Sept 1

Gilgal Several places in Palestine men-tioned in the Old Testament. One, 3 m east of Jericho, was Israel's first camping place after entering Canaan Another, 7 m north of Belhel, was Elisha's abode

Gilgamesh Hero of a Babylonian epic This important and popular literary work comprises 12 cuneiform Each covers an adventure directly or indirectly associated with the hero and remarkably paralleling the labours of Hercules One tablet narrates the Babylonian version of the Biblical flood The opic is fragmentary

Gill Organ of respiration in water-dwelling animals Gills consist of simple or

branched processes richly supplied with bloodvessels and covered by a delicate membrane, thus giving a larger surface for the absorption of the oxygen dissolved in the water They are present in crustaceans, molluses and fishes, and in the larval stage of the frog and its allies In fishes the gill system is complex and is contained either in separate pouches or in one branchial chamber.

Gill English measure of capacity It contains 7 219 cubic in and 4 gills go to a pint Formerly in Scotland and the

north of England, a gill was half a pint

Gill Sir David Scottish astronomer Born in Aberdeen, June 12, 1843, he studied at Aberdeen University, soon developing an interest in astronomy After having had charge of a private observatory he was, in 1879. appointed Astronomer Royal at the Cape of Good Hope He published a number of star catalorues and works on astronomical subjects. and his work in connection with various geodetic surveys, together with many important investigations, greatly enhanced his reputation His organising ability was well shown in his expedition to Ascension Island to determine the solar parallax in 1877 In 1900 he was knighted, and died Aug 27 1914

Gill Eric Rowland English sculptor Born at Brighton, Feb 22, 1882, he was apprenticed to an architect, but preferred letter carving, and in 1910 produced his first sculpture, "Madonna and Child" He became a Roman Catholic in 1913, and was commissioned to execute the Stations of the Cross for Nestminster Cathodral After the War be Westminster Cathedral After the War he carved "Christ driving the Moneylenders from the Temple" for Leeds University War Memorial, and has done many other sculptures, including "S Sebastian," "Torso," "Adam and Eve" (headless), and "Deposition" He published Art Nonscase (1929), and Clothes (1931)

Gillingham Borough of Kent It stands on the Medway adjoining Chatham, 36 m from London, by the S Rly An industrial area, bricks and cement are made, the dockyard at Chatham providing other employment Gillingham was a market town in the 14th century and was long a naval station Pop (1931) 60,983

Gillingham Market town of Dorset centre, it is situated on the Stour, 1051 m from London, by the S Rly Pop 3570

Gillott Joseph English pen maker Born at Sheffield, Oct II, 1799, he commenced work as a cutler, moving to Birmingham in 1821 In 1830 he started experimenting in the making of steel pens obtaining flexibility combined with hardness by cutting central and side slits and cross graining the point After a time he established a factory, which brought him a fortune, much of which he spent on art He died Jan 5, 1873

Gillow Robert English craftsman About 1730 he began to make furniture in Lancaster Later he moved to London where he carried on business with his sons until his death in 1773 The sons, Robert, Thomas, and Richard, continued the business, which became Gillow & Barton, and were the leading furniture makers of the time Hepplewhite and Sheraton furnished designs for pieces which were made by the Gillows

Gillray James British caricaturist. Born

engraver and later studied at the R A schools in London and under Bartolozzi In 1779 appeared his first signed caricature, and for over a quarter of a century his political sattres continued to delight a wide public Ho died insane on June 1, 1815 Mamo applied by Chaucer, Callyflower Spenser, Shakespeare and old writers generally to the clove pink or clove ellbeforer (danties cariambullus). It is an

Gillyflower Spenser, Shakespeare and old writers generally to the clove pink or clove gillyflower (dianilius carpophyllus) It is an adaption of the French girofile Later writers and nurserymen apply it to the stock or stock gillyflower, matthoda, the wallflower or wall gillyflower, cheranthus, the damo's violent, or night-scented gillyflower, hesperis, and others

G11mour Sir John. Scottish politician a baronet, he was educated at Trinity College, Glenalmond, and Trinity College Cambridge After serving in S Africa, he entered politics and was elected Unionist member for East Renfrewshire In 1913 he was elected for the Pollok division of Glasgow, and in 1919 became a Unionist whip In 1921 22 he was a junior Lord of the Treasury, and from 1924-29 Secretary for Scotland In 1931 he became Minister for Agriculture, and as such attended the Ottawa Conference In Sept, 1932, he succeeded Sir Herbert Samuel as Home Secretary, giving place to Sir John Simon in June, 1935

Gimcrack Name of a famous English racohorse In its honour a racing club was founded in 1767 and a race the Gimcrack Stakes, is run every August at York

Ginerack Stakes, is run every August at York.

Gin Spirit distilled from malt and malze grain in a patent still, and flavoured with juniper berries. Other aromatic substances, such as orris root, cardamoms, cassia and coriander seeds, are also used to flavour it. The percentage of alcohol varies from 40 to 50, and what medicinal value gin has is due to the oil of juniper. Dutch gin, one variety being echnapps or hollands, is made chiefly at Schiedam, Holland.

Ginchy Village of France. It is 7 m from fighting during the battle of the Somme in 1910.

Ginchy Albert and was the scene of heavy fighting during the battle of the Somme in 1916. The British took it on Sept 10, 1916, but it was recovered in March, 1918 by the Germans who held it until the final advance of the Allies There is a memorial to the Guards who were in action here in Sept 1916.

action here in Sept 1916
Ginger Rootstock of a perennial reed like rated in antiquity as a spice, it is grown nowadays throughout the tropics, the best varieties coming from China and Jamaica. The irregular hand like pieces, washed and dried, form coated or black ginger, washed, ser ped and bleached they become uncoated or white ginger The aromatic volatile oil and pungent resin are used medicinally young green rootstocks are preserved in syrup, or in crystallised sugar in powdered form it is widely employed to flavour cakes (gingerbread), and it is also employed in the manufacture of gifiger ale

Ginning Process by which cotton fibres are separated from the seeds It is performed by means of a machine known as a gin, of which there are several types, adapted for use with long or short stapled cotton. The word is a corruption of engine

Ginseng Root of a shrub of the try order or flanges are to the Chinese to possess rejuvenating properties the girder by Wild plants from Manchurla are preferred to those cultivated in Korca. Americans export the framework

the variety called A quinquefolia to China as a substitute

G1011tti Giovanni Italian politician Born Oct 27, 1842, he was educated at Turin, In 1882 he was elected to the Chamber of Deputies, and in 1889 was made Minister of Finance In 1892 he became Premier, but in 1894 he was obliged to resign He later became Minister of the Interior, and in 1903 Premier for the second time He resigned in 1906, but returned as Premier 1906 09 and 1911 14 During the Great War he advocated a polic of neutrality Giolitti was again Premier in 1920 21 In 1922 he published an autobio graphy He died July 17, 1928

Giorgione Giorgio Venetian painter Born at Castolfrunco in 1477 he was a pupil of Giovanni Bellini, and at 2, years of age painted the altar piece in the cathedral of his native place. This was follower by a number of other works of great beauty, but only a few of the many paintings attributed to him are authentic. Three are shown in the National Gallery, London. He died in Venice in 1510.

Giotto d1 Bordone Italian artist Born near Florence about 1266, he was the son of a peasant landowner Tradition says he was found drawing his fathers sheep by Cimabuo, who recognisting his genius made him his pupil The whole life of Giotto is similarly obscured by legend and much of his work has been lost, but it is known that he executed for S Peter's Rome, in 1298, a mosaic and altar piece A series of his frescess are preserved in the Church of S Francis at Assisi and at Padua He also designed the beautiful campanile at Florence called Giotto 8 Tower He died Jan 8, 1336

Gippsland District of SE Victoria Australia It covers about 14,000 sq m and on its fortile soil cattle are grazed, chiefly for their milk The district is also rich in coal and other minerals Surar beet is cultivated Sale is the chief town

G1psy H111 District of SE London It is in the borough of Lamboth and the district of Norwood, and on the S Riv At one time the place was frequented by gipsies

G11affe Ruminant hoofed mammal (guraffa camriopardalis) It is a native of Africa south of the Sahara The tallest of all animals, it attains to a height of 18 or 19 ft and is tawny coloured with brown blotches It has a short body and long limbs and neck, which nevertheless has only the same seven neck bones as man its cars are large and pointed, and it has skin covered horn like appendages, and a tufted tail I feeds on leaves plucked singly from branches by its long flexible tongue Timid and swift moving, girafes are rapidly disappearing, especially from S Africa

Girder iron, rolled steel or reinforced concrete supported at both ends Designed to bear a heavy weight and resist transverse stresses girders are used for floors and roofs of buildings and in the construction of bridges in the simple H girder, the longitudinal hard or flanges are united by a transverse plate or web, the flanges resisting the stresses put upon the girder steel girders are much used in modern business buildings, of which they form the francesork

Girgenti City of Sicily It is 84 m from Palermo and the capital of Girgenti province It is chiefly famous for the remains of its temples, which are among the most notable of their kind It occupies the site of the Greck city of Agrigentum The city has a trade in sulphur, fruit, oil, etc., which is shipped from Porto Empedocle, 3 m away Pop (1931) 30,032

Girl Word used for a female who is not yet in Great Britain females remain girls until they in Great Britain females remain girls until they are 18 or 19 Institutions for the welfare of girls include the Girls' Friendly Society at Townsend House, Greycoat Place, London, 5 W, and the Girls' Life Brigade, 56 Old Balley, London, E C 4 Both have branches all over the country The hours of labour of girls are limited in Great Britain and other countries by law

Girl Guides Organisation for training girls, the counterpart of the Boy Scouts It was started by Lord Baden-Powell and his sister, Miss Agnes Baden-Powell in 1910 Girls between 8 and 16 years of ago may become members, those under 11 being known as Brownies They are grouped in companies, each under a captain and lieutenant, and a company is divided into patrols Entrants are at first tendercots To become guides proper they must pass tests in a number of subjects and so obtain proficiency badges Camps are held in the summer for the guides
The headquarters are in Buckingham Palace
Road, London, S W 1, where a new building
was opened in 1931 The world membership
is over 1,000,000

Gironde River estuary in France formed by the union of the rivers Dordogne and Garonne It is about 50 m long and is navigable Bordeaux stands on the Garonne near the head of it Gironde is also the name of a department famous for its wines. of which Bordeaux is the capital

Girondins (Girondists) Name given to French Revolution (q, v), so called because some of its members came from the department of the Gironde Its leader was Brissot, other leading members were Verpiaud and Condor-The Girondins were an offshoot of the Jacobins, but were more moderate They were in control of affairs from March, 1792, to June, 1793, when they were overthrown by Robe spierre Many of them were arrested and executed

Girtin Thomas English painter Born in London, Feb 18, 1775 He produced a number of water colours which gave him a high place amongst artists in that medium, but he was only 27 when he died, Nov 9, 1802 Turner, with whom he worked for a time, paid a great tribute to his powers His work may be seen in the British Museum

Girton College for women at Cambridge It was founded at Hitchin in 1869, and was moved to Cambridge in 1873, the buildings being erected near the village of

Girvan Burgh, watering place and market town of Ayrshire It is at the mouth of the River Girvan, 21 m from Ayr and the fishing industry Pop (1931) 5292

The river Girvan is 35 m long It rises in a small lake and flows through the vale of

Gisborne Town and port of New Zealand It stands on Poverty Bay, on the west coast of North Island The chief industry is the shipping of wool and mutton for which there are good harbour facilities The town has freezing works and associated industries Pop (1932) 16,400

Gish Name of two American actresses Lillian was born at Springfield, Ohlo, in 1896 and appeared on the stage at the age of five In 1914, with her younger sister, Dorothy, she took up film work, appearing in The Birth of a Nation, Broken Blossoms, Way Down East
The Scarlet Letter, etc
Dorothy was born at Dayton, Ohio, March

11, 1898, and first appeared on the stage in Her chief screen successes have been Gwynne and Madame Pompadour 1903 Nell Gioynne and Madame Pompadour Together the sisters appeared in Hearts of the

World, and Orphans of the Storm

Gissing George Robert. English novelist Born at Wakefield, Nov 22 1857, he was educated at Owens College, Manchester For a time he worked as a teacher in America, Germany and London His first novel, Workers in the Dawn, appeared in 1880 He died Dec 28, 1903

Among Gissing's novels are The Unclassed, 1884, Demos, 1886, Thyrza, 1887, New Grub Street, 1891, Born in Exile, 1892, and The Old Woman, 1893 The Private Papers of Henry Ryecroft, 1903, is largely autobio graphical He wrote also a monograph on

graphical He wrote also a monograph on Charles Dickens, 1898, and a travel book By the Ionian Sea, 1901

Givenchy Village of N France It lies

Givenchy Village of N France It lies between Béthune and La Bassee, and was the scene of fighting during the Great War, as the line held by the British ran through it

Another Givenchy is Givency-en-Gobelle This village, about 4 m south of Lens, was also the scene of fighting during the Great War

Gizeh Town of Egypt It is on the left bank of the Aile, here crossed by a bridge, three miles from Cairo. To the west, bridge, three miles from Cairo connected by an electric railway, are the pyramids and the sphinx In 1931 a fourth The town has a pyramid was discovered palace built by one of the khedives 26,921

Glace Bay Town and seaport of Nova Cape Breton Island, 14 m from Sydney, with which it is connected by railway It stands on the Cape Breton coalfield and its industries include an large workshop. include railway workshops on Pop (1931) 20,706

Fishing is carried

Glacier Stream of ice Glaciers slowly from above the snowline, where the lower layers of the accumulated snow become, by pressure, converted into ice The rate of movement in Alpine glaciers is about one foot per day, the centre moving faster than the sides, which are retarded by friction, but since, when the glacier feather a certain level, the ice melts about as fast as it advances, the base, or snout, of these glaciers are usually nearly stationary From the base a torrent emerges, opaque and milky looking Much of now temperate Europe is looking marked by signs of retreating glaciers, evidence

of the last Glacial or Ice Age (q r)
In Arctic and Antarctic regions great masses
of ice break off the glaciers when they reach
the sea, and thus form icebergs

Gladiator In ancient Rome a professional swordsman fighting for public

entertainment The practice, arising at again became Premier Atruscan funerals, where perhaps, it replaced office was less successful human sacrifices, reached Rome in 264 nc, and Egypt presenting d and became an official diversion in 105 nc vere not handled too volume types existed such as those who fought large measure of elected blindfalded. bilndfolded, those using net and trident, or sword and buckler There were also gladiators who fought in chariots, on horseback, or with wild beasts Theodoric abolished gladiatorial spectacles in A D 500

Gladiolus Genus of flowering plants of the iris order They are native mostly to the Mediterranean region and Africa. The first species reached English gardens in the 16th century The handsomest are hybridised varieties, largely S African, which were introduced during the 19th century They grow from seed or from bulbous offsets of old corms, and yield one sided spikes of large carmine, salmon, yellow and purple blooms.

Gladstone Viscount. English politician Born Jan 7, 1854, Herbert John Gladstone was the youngest son of W E Gladstone He was educated at Eton and Oxford, being in 1877 appointed history lecturer at Keble College In 1880 he was elected MP for Leeds He served in several minor offices before 1894 when he became Chief Commissioner of Works From 1899 1905, he was chief whip of the Liberal Party then in opposition and was Home Secretary 1905 09 In the latter year he was appointed Governor In the latter year he was appointed Gorernor General of S Africa holding that office for five years, and was made a viscount On his death May 6, 1930, the viscountry became extinct In 1928 he published After Thirty Years, a book dealing with his father's life

Gladstone William Ewart English Born in Liver English pool, Dec 29 1809, he was the youngest son of Sir John Gladstone, Bart, MP He was educated at Eton and Oxford In 1832, as a Tory, he was elected MP for Nevark, and during his long career in the House of Commons, during his long career in the House of Commons, Interrupted for a few months in 1846 47, he sat for Oxford University, 1847 65 S Lanca shire, 1805 68, Greenwich 1808 80, and Middlothian, 1880 95 His official career began in 1834 as a junior Lord of the Treasury, then as Under Secretary for the Colonies a year later He left office with Sir Robert Peel his leader but in 1841 he returned to office, as Vice President of the Board of Trade, and in 1843 he was made President with cabinet rank In 1845 he resigned rather than agree to a In 1845 he resigned rather than agree to a grant of public money for Roman Catholic education, but he came back in less than a year

as Secretary for War and the Colonies
From 1852 to 1865, as one of the Pecilites
Gladstone was Chancellor of the Exchequer In 1859 he was again Chancellor this time definitely as a Liberal During the next six years, with Palmerston as Prime Minister, he was responsible for the great financial reforms on which his fame partly rests On Palmerston's denth, 1865, he became leader of the Liberal Party in the House of Commons, and in 1867 leader of the whole party

In 1868 Gladstone was Prime Minister for the first time and before he left office in 1874, he had discatabilished the Irish Church, reformed the education system and introduced other reforms In 1875, having lost the General Framples are the salivary glands and sweat Flection of 1874, he retired from public life, but returned in 1878 to denounce the misdeeds of the Sultan. In 1880 under his inspiration, the Liberals won the General Election and he In 1868 Gladstone was Prime Minister for the

again became Premier His second term of office was less successful than the first, Ireland and Egypt presenting difficult problems which were not handled too well. Having passed a large measure of electoral reform he resigned office in 1885, and after the General Election declared Home Rule for Ireland He took office for the third time as Premier, but the defection of Bright, Hartington, Chamberlain defection of Bright, Hartington, Chamberlain and others led to the defeat of his proposals for Home Rule, and failing in an appeal to the country, he went out of office For six years he led the Liberals in opposition, but the election of 1892 saw him Prime Minister for the fourth time Again his effort to give Home Rule to Ireland failed, the ministry was divided on important issues and in March, 1894, he resigned He kept his seat, however, until 1895 He died on May 19, 1898, at Hawarden, and was buried in Westminster Abboy In 1839 Gladstone married Catherine Glynne,

In 1839 Gladstone married Catherine Glynne, wno innertied from her brother, Sir Stephen Glynne, Hawarden Castle and estates They had four sons and four daughters Mrs Glad stone died in June, 1900 The Hawarden estate was inherited by his oldest grandson, W C G Gladstone, M P who was killed in action in April, 1915 In 1932 Gladstone's only surviving son Henry Neville Gladstone, was created a baron Gladstone was a great real action. who inherited from her brother, Sir Stephen

Gladstone was a great parliamentarian and his record as an administrator will not easily be surpassed He was a magnificent erator, and his career was helped, too, by his boundless energy, his ability to master detail and, to a profoundly religious man, devotedly attached to the Church of England His Life has been

written by John (Lord) Morley
Glamis Village of Angus (Forfarshire),
Scotland, 6 m from Forfar Near
is Glamis Castle, the chief seat of the Earl of
Strathmore This is a 17th century bullding. but it contains fragments of a much older one Many stories cling to it, one being that it was the residence of Macbeth In the village there is an old sculptured cross, associated with the name of King Malcolm

Glamorganshire County of Wales. and the most populous in the principality, vith a long coast line on the Bristol Channel its area is 900 sq m It is in parts mountainous, and the seenery is very beautiful Cardiff is the county town Other large towns are Swanea Merthyr Tyddll, Rhondda Port Talbot and Pontypridd Neath, Bridgend and Cowbridge Portheawl, Ponarth and Ovstermouth are three of several watering places

The cast of the county is an important coal mining area. In the centre is the vale of Glamorgan, a fertile area, and in the west is the district of Gover, at one time outside the county The rivers include the Taff Tawk, Rhymney, Rhondda and Ogwr Glamorgan sends seven members to Parliament and is in the Dioceses of Llandaff and of Swansea and

senas serves the Dioceses of Llandau and of Control of the Dioceses of Llandau and of Control of Color bolism of an animal or plant. The secretion collects in the cavity of the gland and usually

animals, especially horses, mules and donkeys It is communicable by contagion to certain other animals and to man It produces pustular discharges in the nasal mucous membrane, and discharges in the hasa indecots memorahe, and in the horse the lungs are affected. When it is cutaneous, with inflamed and ulcerated lymphatic glands it is called faroy (q r)

Glanvill Born at Stratford, Suffolk indge in 1175, he was chief justiciar of England, 1180-89, being a valued counsellor of England, 1180-89, being a valued counsellor of Henry II Richard I, however, deprived him of office and imprisoned him He died, while on crusade, at Acre, 1190 He wrote a valuable treatise on English law, and on this his reputation rests

Glasgow City and seaport of Scotland, the largest in the country It stands on the Clyde, chiefly on the north of the river, and in the county of Lanark, the suburbs extending into the county of Renfrew It covers nearly 50 sq m and its population in 1931 was 1,088,417, an increase of 30 000 in ten years It includes Partick and Goyan, once distinct municipalities, great industrial areas such as St Rolloy, Camlachie, Tradeston and Springburn, and the residential districts of Kelvingrove and Hillhead. Glasgow is the scat of an Anglican bishop and a Roman Catholic archbishop

The buildings are mainly modern, the cathedral, which is sacred to S Mungo, the city's patron saint, being an exception, parte dating from the 12th century. The municipal buildings form a magnificent pile in George Square. Near are the county buildings. The Mitchell Library and the Art Gallery are notable Other public buildings are the Law Courts, the Exchange, the Post Office, St Andrew's Hall and the Merchants' House The infirmaries and hospitals are fine buildings There is an observatory and a modern cemetery, the Necropolis The university occupies

a fine range of buildings on Glimorchill It was founded in 1450 and is second to none in its scientific and other equipment. There are fine bridges over the river, the King's Bridge being opened in Oct , 1933 Crossing may also be accomplished by ferries and tunnels

There are many public parks and a botanic garden, the former including Kelvingrove, Bellahouston, Cathkin Braes and Queen's Glasgow Green has historic associations

The industries, apart from shipping, include the manufacture of machinery, locomotives and other forms of iron and steel ware, chemicals, tobacco and textiles Printing, distilling and dyeing are others Shipbuilding is important For the shipping there are is important For the shipping there are extensive docks, wharves and warehouses, controlled by the Clyde Navigation Trust The largest vessels can enter the harbour Glasgow obtains a good supply of water from Lochs Katrine and Arklet. There are many golf courses football grounds and other facilities for spart and respection. Glasgow is facilities for spart and respection. ties for sport and recreation Glasgow is famous as an art centre and a group of painters have made famous the Glasgow School

Glasnevin District of Dublin It is famous for its cemetery, in which many great Irishmen are buried. Here, too, are the botanical gardens of the Royal Irish Society

Glass Non crystalline, transparent or semi-transparent inorganic substance Certain minerals occur in a glassy state, but the glass of commerce is obtained by the fusion of silica with alkalis Glass was known to the ancients and certainly in Egypt from remote times

Modern glass varies in composition according to the purpose for which it is intended Bottle glass is made from sand, soda and lime with the addition of marl, baryta or basalt, sheet and plate glass are mixtures of sand, soda and and plate glass are mixtures of sand, soda and lime, whilst filmt glass is composed of potash, and and lead oxide, for toughened glass-boric acid and borates are added Glass formed of two or three plates is used for the screens of motor cars. It is claimed that some forms of this glass will resist a rifle bullet. The Glass Sellers' Company is a London city livery company with offices at 13 Queen Anne's

Gnte

Glasswort Genus of leafless herbs (Salicornia) of the goose-foot order It is a native of saline soils throughout the world The succulent, jointed stems of the marsh samphire, S herbacca, are eaten by cattle, when burnt they formerly productionarilla for soap and glass making The allications of the state of the sample of the state of the sample of the saltwort Salsola kali, or prickly glasswort. served similar ends

Glastonbury Borough and market stands on the River Brue, 37 m from Bath. The chief buildings are the churches of S. John and S Benedict, a museum, the George Inn, once the abbot's guest house, and another building, once his court house Near the town is a hill called Glastonbury Tor A musical and dramatic testival is held in the town every year, by the Glastonbury Players Pop (1931)

Glastonbury's great claim to fame is its ruined abbey, once one of the largest and richest in England The abbey is said to have been founded by Joseph of Arimathea, who planted here the thorn that bloomed on Christmas Day Actually it was founded in 601 and was rebuilt in the 13th century, being then a Benedictine house It was being then a Benedictine house It was destroyed at the Reformation The ruins belong to the Church of England and a good deal of excavation work has been done on them

Glauber Johann Rudolf German chem-ist Born at Karlstadt, about 1604 His experimental work resulted in many valuable discoveries. He first prepared hydrochloric acid by treating salt with sul-phuric acid and the sodium sulphate (Glauber's salt) produced during the operation he held to be a universal medicine Nitric acid from nitre, the preparation of tartar emetic, and many metallic salts were among his discoveries. He died in 1668

Glaucoma Disease of the eyeball It tension or fluid pressure causing the crystalline tension or noid pressure causing the crystatum-lens to assume a greenish grey hue The condition is partly mechanical, partly con-restive, resulting from the ris's outer margin being pushed against the corner. It occurs mostly after middle life, leading to ever-increasing loss of sight, unless remedied in time by an operation upon the irls or selerotic. time by an operation upon the iris or sclerotic

Acute attacks involve much pain

Glebe Cultivable land belonging to a parish church or ecclesiastical benefice Initially, no church could be consecrated until pursonage and glebe were provided Parsons may farm their own glebes provided Parsons may farm their own glebes or let them on farming, building or mining leases under limiting conditions, but most glebelands are now managed by the Ecclesi-Glass was astical Commissioners

Glenalmond Valley in Perthshire, through which flows the River Almond In the glen is Trinity College, a public school opened in 1841

Glencairn by the family of Cunningham, 1488 to 1796 Alexander Cunningham, the 1st earl, was killed in battle in 1488, the year in which James III granted him his earldom Alexander, the 5th earl, was a friend of Knox, and alternately a supporter and antagonist of Mary, Queen of Scots The 9th earl, William, was, after the Restoration, appointed High Chancellor of Scotland, having led a rising in favour of Charles II in 1653 James, the 14th earl, was the patron and friend of Burns, who wrote a Lament on his death At the death of his brother, John, the 15th earl, in 1798, the tittle became extinct

Giencoe Pass in Argyllshire It is 10 m and runs to the sea at Loch Leven The scenery is beautiful and wild Here, in 1692, the Macdonalds of Glencoe were massacred by the Campbells The order for the extirpation of the Macdonalds was signed by William III, but the extent of his responsibility for the foul deed is a matter of controversy Glencoe, which means the glen of weeping, is associated with Ossian Part of the glen was sold in 1936

Giencoe y like of Note! S Africe It line to Johannesburg, and is a railway junction Near are some coal mines. The place is known because there was fighting here between the British and the Boers in Oct., 1899

Glendalough Valley and lake in State It is noted for its rules, among the finest in Ireland

Glendower owen Welsh rebel Born about 1349, he claimed descent from the old Welsh princes He studied law at Westminster and in 1385 fought for Richard II against the Scots After the accession of Henry IV he proclaimed Welsh independence, with himself as Prince of Wales and for the remainder of his life was in active warfare with England He made an alliance with France against England, but after 1405 he suffered a series of defeats He died 1415

Gleneagles Pleasure resort of Perth Shire It is 9 m from Crieff, with a station on the L VLS Rly The company here built a fine hotel, near which are good golf links

Glenfinnan Glen in Inverness shire In finnan, where on Aug 19 1745 Charles Edward set up his standard It is 18 m from Fort William at the head of Loch Shiel A memorial marks the spot

Glengariff Village of Corl Irish Free gariff Harbour an opening of Bantry Bay, and is noted for its beauty

Glengarry Glen of Inverness shire The valley of the River Garry, it lies between Looks Olch and Garry It gives its name to a bonnet worn by some of the scottish regiments

Glenlivet Glen of Bantishire, Scotland Clenlivet It is in the south of the county, and the little River Livet flows through

Glenmore Valley of Inverness-shire Known as the Great Glen of Scotland, it extends across Scotland for over 60 m, from the Moray Firth, S W of Inverness, to Loch Eil, near Fort William The Caledonian Canai runs through it, uniting the three lochs, Ness, Lochy and Oich There are several other valleys of this name in Scotland, including one in Perthshire

Glenshiel Glen or pass in the county 26 m long and is formed by the little River Shiel In June, 1719, a force of Jacobites, with about 300 Spanish soldiers, marched into the glen where they were attacked and defeated by some English and Dutch troops

Glider Name given to a kind of air vessel. It is heavier than air and has no motor, being designed to descend graduelly from a height to the ground. Experiments with gliders were of considerable help in developing the aeroplane. As a sport, gliding has been taken up a good deal in Germany since the Great War and to some extent in Great Britain. Gliding clubs have been established and there is a British Gliding Association at 44c, Dover Street, London W 1 In 1931 an Austrian expert made a flight of over 70 miles in just over three hours, a record for England.

Globe Fish Various tropical and sub Allied to the sun fishes, they have the power of swallowing air, thereby making themselves more or less globular Varying in length up to 2 ft. they include the small spined, prillianticoloured and holsonous tetrodon, which is found in the Nile, in Brazilian and Indian rivers and occasionally in British seas. In the large spined sea hodgehogs, diodon, bristly spines stand out defensively

Globe Flower Genus of perennial buttercup order Native to temperate and arctic regions, the British Temperate bear flowers formed of incurred, yellow, petal like sepals with thy linear petals Tasuaticus is cultivated in grandens The American spreading globe flower, Tlaxus, is not globular

Globe Theatre London playhouse, sociation with Shakespeare It stood on Bank side, Southwark and was built in 1599 It hold 1200 spectators. This theatre was burned down in 1613, but another was built on or near the site and existed until 1644 In 1868 a third Globe Theatre was pulled down in 1902. Strand. This was pulled down in 1902.

Globularia Name of a genus of herbs and shrubs They grow around the shores of the Mediterranean and in greenhouses in Britain They bear small flowers gathered into flattish heads and are sometimes called ball flowers

Globulin Group of primary proteins occurring in animals and plants. They are distinguished by insolubility in water and solubility in dilute saline solutions. They are precipitated from their solutions by exceesive dilution with water or by saturation with magnesium sulphate, and are congulated by heating

Gloss fablanator, remark inserted be a literary work. It refers especially to those inserted by manuscript copylsts Ancient

comments on obscure texts

Glossitis Inflammation of the tongue It may arise from an insect bite or sting, or the entry of septic germs through a wound, and may occasion an abscess Chronic inflammation may occur abscess from syphilis, from the irritation caused by decayed teeth or badly fitted dentures, or from It may lead to cancer excessive smoking

Glossop Borough and market town of Manchester and 24 m from Sheffleld, with a station on the L N E Rly The principal industries are the manufacture of cotton and paper and the associated ones of dyeing and bleaching Glossop Hall was, until 1929, the bleaching Glossop Hall was, until 1929, the seat of Lord Howard of Glossop, who owned much of the town Pop (1931) 19,510

Gloucester City and market town of Gloucestershire, also the county town It stands on the Severn, 114 m from London, and is served by the G W and It is also a river port, and a Rlys canal links it with Sharpness on the estuary of the Severn The finest building in the city is the cathedral, which has many notable features, of which the cloisters and the stained glass may be mentioned Other churches are S Mary de Crypt, S Mary de Lode and S Michael's Secular buildings include the guildhall and the New Inn, one of the oldest in England The industries of Gloucester are carriage building works, engineering works, flour mills and manufactures of other kinds Its cattle market is important There is a large public park and the city has a famous Rugby football

Owing to its position on the Severn, Glou cester has been, from early times, an important place Here William I wore his crown, and here parliaments were held It became a bishop's seat in 1541 Pop (1931), 52,937

Gloucester Duke of English title borne by several members of the royal family Robert, an illegitimate son of Henry I, was Earl of Gloucester and the Clare family held the earldom for about 100 years before 1314, when the last earl was Lilled at Bannockburn

Thomas of Woodstock, a son of Edward III Thomas of Woodstock, a son of Edward III, was Duke of Gloucester from 1385 to 1397 He was a leading figure during the reign of his nephew, Richard II, who had him arrested and executed in 1397 Humphrey, a son of Henry IV, was made duke in 1414 He is remembered as a benefactor to the University of Oxford He died in 1447 The next duke was the prince who became Richard III. was the prince who became Richard III

There was no other Duke of Gloucester until Stuart times Henry, son of Charles I, and William, son of Anne, were both given the title, but neither attained manhood In 1764, William Henry, a son of Frederick, Prince of Wales, and a brother of George III, was made duke He died in 1805

Henry, third son of King George V, became Duke of Gloucester in 1928 Born March 21, 1900, at Sandringham, he was educated at Broadstairs and then at Eton In 1919 he entered the army, serving first with the King's Royal Rifles and later with a cavalry regiment. He is bright of the Garter and regiment He is knight of the Garter and Privy Councillor In 1935 he married Lady Alice Scott, daughter of the seventh Duke of Buccleuch.

manuscripts abound in such annotations, which, when collected and classified, form glossaries A glossographer writes explanatory of the country, it is of very irregular shape of the country, it is of very irregular shape and has an area of 1243 sq. m. Notable features are the Forest of Dean, between the Wye and the Severn, and the Cotswold Hills, one of the most beautiful parts of England The Severn, the Wye and the Avon are the chief rivers, and the Thames rises in the county Gloucester is the county town, but Bristol is the largest city Other towns of importance are Cheltenham, Tewkesbury, Circnesster and Stroud It is chiefly an agricultural area and in the vale of Gloucester the soil is very fertile Coal is mined in the Forest of Dean and sheep are pastured on the hills At one time Gloucestershire, as a centre of

the woollen industry, was one of the richest parts of England, and there are evidences of this in its fine churches and its picturesque market towns, such as Minchinhampton and Chipping Campden It is served by the GW and LMS Rlys It sends four members to Parliament and contains two bishoprics Gloucester and Bristol Berkeley Castle is perhaps the finest of its historic buildings It is noted as a cricketing and hunting county Pop (1931), 786,700

The Glougester

28th and 61st regiments of foot, battalions with records of service going back nearly 200 years The depôt is at Bristol

Glowworm Name given to beetles of the genus Lampyres Two species are found in Britain The body is soft, and while the male has the usual shape of a beetle, the female is wingless and resembles a larva Both the adult insect and the larva of the female possess phosphorescent organs on the underside of the abdomen, hence the name

Gloxinia (Sinningia speciosa) Popular variety of sinningia, a genus of the order Sesucraceac A tuberous rooted plant with abundant leaves, it bears bell-like blossoms of pink, purple, crimson or white, some blooms being delicately spotted

Glozel Hamlet, near Vichy, France There, in 1924, a peasant, Fradin, professed to uncarth some prehistoric finds Further excavations were made by Dr Morlet. a local amatem archeologist, and a good deal of material, said to be ancient, was produced For a time controversy ran high, but official investigations, both national and international, disposed of the "finds" as spurious, the outcome of a palpable fraud

Gluck Christoph Willibald German composer Born July 2, 1714, in Bavarla, he received his musical education at Prague and Milan In Italy he produced many successful cores but weltting London in 1715 Prague and Milan In Italy he produced many successful operas but, visiting London in 1745, he was not there successful, being overshadowed by Handel Humiliated by his failure, he returned to Vienna, where he produced Orfco ed Eurodice, 1762, and Alceste, 1767, operas unlike any that had formerly been produced in the harmonious relation between words and music Through the influence of Marie Antoinette, his former pupil, Iphipénie en Aulide was produced in Paris in 1774, and there Gluck lived for some years It was followed by Arnude, Iphipénie years It was followed by Armide, Iphigenie en Tauride and Echo et Narcisse Ho died in rears Vienna, Nov 15, 1787

Glucose Form of sugar also known as grape sugar or deversee. It is present in many ripe fruits and in honey, and is prepared commercially by boiling the stare

of potatoes, maize, etc with dilute sulphuric acid, afterwards removing the acid with lime and evaporating the liquid Glucose is used by confectioners, jam manufacturers and brewers

Glucosides which are combinations of glucose with other organic compounds, especially those belonging to the aromatic series By the action of special enzymes (ferments) or by hydrolysing with weak acids, the glucosides yield glucose among other products of decomposition Amygdalin occurring in almonds and the leaves of the cherry laurel is decomposed by the enzyme, emulsin, into glucose, prussic acid and benzaldehyde Other gluco sides are salicin from the willow, and digitalin from the foxglove

Glue Impure form of gelatine (q v) Made from the skins and bones of animals, the finer qualities of brown glue are prepared from the hides of oxen and lighter coloured grades from the skins of sheep. For the weal er glues bones are used, and the skins of codfish and other fishes yield a tenacious fish glue. A liquid glue is made by treating ordinary glue with nitric or acetic acid to prevent the formation of a jelly

Gluten Mixture of proteins, forming a tough clastic substance. It is obtained by washing and kneading wheat flour in water to remove the starch. Gluten forms from 10 to 12 per cent. of wheat flour and from it two proteins gliadin and glutelin may be extracted. The hard wheats are especially rich in gluten and from them are made the I'rench putes alimentaires, macaroni, spaghetti and vermicelli

Glutton Largest carnivorous mammal (Gulo luscus), of the weasel family Found in north Lurope, north Asia and North America where it is usually called the wolverine it is extinct in Britain, where its fossil bones occur in cave earths Like a bear in shape with short bushy tail it is strong and voracious. Its shaggy brown black fur serves for rugs and carriage aprons

Glycerin Trihydric alcohol having the formula C, H<sub>t</sub>(HO), It forms a thick colourless liquid with a sweet taste. The decomposition product of oils and fats, it is manufactured on a large scale as a by product of candle and soap works. It is used in the pure state in medicine also in the manufacture of explosives and for many other industrial purposes

Glyptodon Typical genus of an extinct armadilles Fossil remnins of them have been found in S American pleistocene deposits A specimen from the Buenos Aires l'ampaformation a claripes is now at the Natural History Museum S Kensington This has a rigid dome shaped tortolse like carapace 7. It by 9 ft its total length measured over the back being 114 ft the carapace was covered with bony rosettes fully 1 in thick which were once skin covered and the head had flutted teeth. The tail had overlapping bony rings.

Gnat English name for various two winged mosquitose ((ulic dae) The female has a riercing and sucking probosels. The secural British species in lude the common house that Cular pipiens and the larger banded annulatus. All have aquatic larve.

Gneiss Metamorphic rock having practically the same mineral composition as granite. Thus it contains quarts, felspar and mica as essential constituents, the minerals are arranged in alternate layers, although in some varieties the foliation is obscure. The varieties of gneiss are named after the corresponding igneous rocks, such as granite gneiss, diorite gneiss, etc.

Gnosticism spritual and metaphysical system, antecedent to Christianity It sought to combine Oriental religious cults with Greek philosophy Ortho dox Christianity developed gnostic heresies and gnosticism assumed Christian forms A mystery religion, it claimed, not intellectual knowledge, but esoterio "gnosis," attributing virtue to talismans and amulots Charac terised by theories of cosmic emanation and Zoroastrian dualism, its vigour in the 2nd century influenced much Christian literature, causing rivalries whence orthodox Catholicism emerged triumphant By A D 600 gnosticism had lost its hold

Gnu Hottentot name of the large, white-tailed antelope (Connochactes gnu) It is called by the Boers the black wildebeest. It is 4 ft high and heavy headed with a wide muzzle and a long mane something like a grotesque buffale with a ponv s hind quarters and tail Both sexes have cylindrical horns, curving downward and then upward Flerce and fast it is now nearly ovtinet. The allied brindled gnu or blue wildebeest, C taurinus ranges E Africa in herds from Lake Victoria to the Orange River

Goa District of India A Portuguese possession, it is on the west coast, about 250 m south of Bombay It has a coastline of about 40 m and covers 1470 sq m It is a fertile region, bounded by the presidency of Bombay, and is connected by railway with British India It has been Portuguese since 1510 Pop (1931) 569,187

On the coast is Panjim, also called New Goa, the capital of Portuguese India Near are the ruins of Old Goa At one time it had a population of 200,000 and was the chief town of the great Portuguese empire in the Fast

Goat (capra) of hollow horned ruminants (capra) The bucks, which emit a peculiar odour called hireine are usually chin bearded They lack the face glands of the sheep and those between the hind hoofs their strongly wrinkled horns are usually straighter, but otherwise they are difficult to differentiate from some wild sheep Domesticated in neolithic times by lake dwellers the ancestral form came from the Mediterrenean region and Persia Some wild species are the liber and markhor The so-called Rocky Mountain goat is a goat antelope the goat proper is not found in the new world.

Goats are kept for their mill and also because their hair, wool and skin have com mercial value To foster their keeping there is a British Goat Society in London

Goathland Yillage of Yorkshire (N.B.) the L. E. Isly. The place has a hydro and a colony for dl abled officers was founded here after the Great War. Near is Goathland Moor on which are some waterfalls. Pop. 712

Goat's Beard Biennial herb (Trazo porton pratense) of the composite order, it is common in 1 ragland and Wales Its erect stem bears solitary relieve

go-to-bed-at noon.

Goat's Rue Tall perennial leguminous herb (Galega officinalis) It is hardy, with feathery leaves and sprays of miniature punkish-purple or white pea-like flowers. Cultivated for fodder, it is also a garden favourite and grows to a height of 5 ft It was formerly used in medicine for pro-moting perspiration, and as a stimulant

## Goatsucker See NIGHTJAR

Gob (and Gob Fires). Technical term for waste coal left in mines and the spontaneous fires arising in it. The latter were once a serious matter, but under modern methods little such coal is left in the mine and the fire danger is correspondingly reduced.

Gobelin Jean French dyer He was became a dyer in Paris, where he is said to have invented a vivid scarlet dye He died in 1476 and his business was for a time carried

on by his descendants

By mere chance Gobelin's name was given to famous tapestry In 1603 Henry IV bought some land from the Gobelins and thereon built workshops in which tapestry was made for him, and was called Gobelin, although Gobelin, but no archive the description of the control of the c although Gobelin had nothing to do with it. The works remained royal property until the Revolution and are now a state establishment

Gobi Desert of Asia, in E and S Mongolia It forms a plateau nearly 4000 ft high and covers some 300,000 sq m Sven Hedin, Sir Aurel Stein and others have ex-plored it Buried towns and the fossils of mighty prehistoric creatures prove it to have once been a more habitable area than it is to-day The Chinese name is Shamo

Goby Name for various genera of spiny-finned fishes Their ventral fins form a sucker-like disk for clinging to rocks. Dwelling off tropical and temperate coasts, the largest British species, the black gobius inger, 10 in. long, is common in rock pools The spotted G minutus, a smaller fish, abounds in the Thames estuary, making shell protected nests in sand

God Divine being. Every religion has its gods and goddesses and many of them were associated with a particular branch of human activity. In Christianity, and also to the Jews and Mohammedans, God is the Supreme Being, the creator of the world, omnipotent and eternal

The development in human thought of the idea of God is the fundamental study of comparative religion parative religion It has two general tendencies One is towards theism—passing through polytheism to monotheism—and believes in polytheism to monotheism—and believes in personal moral forces being distinct from, and ruling, the universe; the other is towards pantheism and holds that impersonal the universe. The popular etymology deriving God from good is erroneous, but the Christian doctrine of God, as renffirmed at the Lambeth Conference in 1930, emphasises His universal love.

Godalming Borough of Surrey It Leeds

The Hog's

Godalming Borough of Surrey It Leeds

Godparent Sponsor for an infant at Godparent lits baptism Sponsors arose in Christendom in the 2nd century, as guarantors of character for pagan converts around is much beautiful scenery The Hog's

flower heads, which close at midday after. Back runs past the town and near it are the pollination, hence the colloquial name John-buildings of the Charterhouse School Pop (1931), 10,400

Godetia Annual plant (ocnothera) related to the evening primrose Varying in height from one to two feet, it includes both double and single varieties. The flowers are double and single varieties white, pink, crimson, crimson and white or cream. The godetia blooms freely in sunshine and is a gay and ornamental plant for the border It is a native of California and Chile

Godfrey Count of Bouillon. Born about of the Count of Boulogne, he became famous as a soldier. In 1096 he set out on crusade, leading his men across Europe to the Holy Land, where he played a distinguished part in the slege and capture of Jerusalem He was offered the title of king, but this he refused, although he was ruler of the city until his death in July, 1100

Godiva Lady. Wife of Leofric, Earl of Mercia. She lived in the 11th century, and legend described her as having ridden naked through Coventry's streets, a condition imposed by her husband for securing to its citizens relief from his exactions. The legand first appeared in 1235, the peeping Tom episode, in which a tailor who disobeyed her request to the householders to retrain from looking forth was afflicted with blindness, was unknown before 1678, when a commemorative procession was instituted in Coventry This was repeated annually at the fair until 1826 It was revived in 1848 and has been held fairly regularly since then

Godley Sir Alexander John English educated at Halleybury and Sandhurst, he entered the Royal Dublin Fusiliers and served in the Sauth Advisor West Fusiliers and served in the South African War. In 1910, after experiences on the staff, he was sent to command the New Zealand defence force and was there until 1914 During the Great War he commanded a division of Australians and New Zealanders in Egypt and Gallipoli and was them in charge of an army come on the Western in charge of an army corps on the Western Front He was commander in chief of the British army on the Rhine, 1922-24. From 1924-28 he held the Southern command, and In 1929 he was made Governor of Gibraltar

Godmanchester Borough and martingdonshire It stands on the Ouse, just outside Huntingdon, 59 m from London, by the LNE Rly There is a trade in agricultural Pop (1931) 1991 produce

Godolphin Earl English title borne by the family of Godolphin from 1706 to 1766 Sidney Godolphin, born in June, 1645, was a member of an old Cornish family In 1678 he was made a peer, and in 1684 First Lord of the Treasury and he retained that position under James II and William III. During the regen of Appendix Milliam III. William III During the reign of Anne, Godolphin was Lord High Treasurer from 1702 to 1710, during which time he gave valuable support to Marlborough He died Sept 15, 1712

On the death of his son Francis, in 1768, the title became extinct. His estates passed to his daughter who married the 4th Duke of

Godunov Boris Federovich Tsar of Muscovy Born about 1552, he was the most famous member of an ancient Tatar family He became important at court, and on the death of Ivan the Terrible was appointed as guardian of his son and successor Godunov put down all rebellion, and by 1586 was omnipotent. He had a strong and wise foreign policy encouraged foreign trade and education and re-colonised Siboria. On the death of Theodore he was elected Tear. He died on April 13, 1605

Godwin English earl He was one of the chief supporters of Canute in whose reign he first came into prominence becoming Earl of the West Saxons in 1020 He helped to secure the succession of Hardi canute in 1035, and of Edward the Confessor who had married his daughter in 1042, and until 1051 was the most powerful man in Ingland In that year he quarrelled with I dward and was exiled with his sons He returned in 1053, but died April 15 of the same year Harold and Tostig were two of his sons

Godwin Mary Wollstonecraft English writer Born April 27 1759 In 1786 she published Thoughts on the Educa tion of Daughters which was followed by other original works and translations, including a teply to Burkes Reflections on the French Revolution, and a Vindication of the Rights of Homen In Paris during the reign of terror the met Gilbert Imia; to whom she bere a daughter On his desertion she attempted suicide but in 1797 married William Godwin Their daughter Mary married Shelley died Sept 10 1797

William Godwin husband of the above first a minister then a free thinker and writer His chief books are Enquiry Concerning Poli-lical Justice and The Adventures of Calch It illiams In 1801 ho married Mrs Clairmont and became the stepfather of Claire Clairmont the mistress of Byron. He died in London

April 7 1836

Godwin-Austen Wountain in the western section of the Illimain yas Its height is 28 250 ft Mountain in the section was named in 1888 after Lieut Col H H Godwin Austen (1834-1923), who surveyed the

Goeben German battle cruiser She was built at Hamburg in 1911 and arrived eight 14 in guns besides lesser arma ment. On Aug 6 1914 the Goeben with a light cruiser the Breslau steamed through the Mediterranean Sea into the Dardanelles and so to Constantinople. Their escape from the British ships off Messina was the subject of an inquiry. Probably their bold arrival belped to persuade Turker to enter the war on the terman side. Later the Goeden became active in Turkish waters and was still affoat although much damaged at the armistice when she was taken over by the British fleet

Goethals George Washington American soldier and engineer Born at Brookly n June 29 1859 in 1898 was chief engineer of the First Army Corps in the panish American War In 1907 he was put in charge of the constriction of Panama (and and on its completion in 1911 became Prot governor of the canal zone. On the entry

require godparents or sponsors at the baptism of the USA into the Great War he held of a child and, according to an old custom a child is often given a name or names be longing to the godparents

of the USA into the Great War he held warlous posts. He died Jan 21, 1928

Goethe Johann Wolfgang von German poet. Born at Frankfort, Aug 28. 1749 the son of a lawyer, was educated at home and at the universities of Leipzig and Strasbourg He began to practice law, but the greater interests of literature, art and science mastered him, and in 1775 he settled at Weimar, where he became the trusted advisor of the Duke of Saxe Weimar After a while he gave more time to literature and less to the public service but he directed the court theatre and in 1792 went with the duke's army to fight the revolutionary army of France The great love of Goethe's life was Charlotte von Stein but there were others, among them Christiane Vulpius, whom he married in 1806, long after she bad borne him a son August Another influence in his life was the friendship of Schiller On March 22, 1832, he died at Welmar His house there like his birthplace Welmar in Frankfort is a public memorial Centenary celebrations were held all over the world in 1932, in his honour

Goethe wrote much both in prose and verse, also some beautiful lyrics and ballads supreme work is Faust which he began when quite young but did not finish till 1832 Of his dramas Gotz von Berlichingen Iphigenia and Egmont may be mentioned Withelm Meister's Lehrjahre is his greatest novel, fol lowed after a time by Withelm Meister's Wanderjahre. Others are Werther and Hermann und Dorothea and his autobiography Aus Meinem Leben Dichtung und Wahrheit Goethe also did notable work in physics and

biology

Gog and Magog Two biblical Magor is

mentioned in Gen v meaning apparently gog land perhaps Armenin Ezekiel (xxxviii xxxix) regards Gog of the land of Magog sa Israel's enemy Rev xx describes Gog and Magog as co ordinate worldly powers Mediaeval chronicles describe two giants acting as palace porters in London of whom gigantic wickerwork images, Gog and Magog sigured in mayoral processions These were lost in the Great Fire, but Saunders images 114 ft high, carved in 1708 still stand in the Guildhail London Guildhall London

The Gogmagog Hills lie to the SW of Cambridge The highest point is only 222 ft high but the flatness of the surrounding

country makes them noticeable

Gogh Vincent van Duten painter Bold in Holland in 1853 he early showed artistic genius First influenced by Millet, then by the Impressionlet School, he later became, with Cezanne and Gauguin one of the leaders of the Post Impressionists A victim of sun stroke he painted many of his best pictures in an asylum at Aries In 1890 he died by his own hand

Gogol Nikolai Vassillevitch Born Mare Born March 31, 1809 In 1828 he went to St Petersburg where for a time lectured at the university and in 1831, brought out Frenings at a Farmhouse near Dilanka a popular series of tales of South Russia A second series, Mirgoral including his famous story Taras Bulba followed in 1831 A comedy Revisor translated into English as The Government Inspector was produced in 1836 and Dead Souls in 1842 Gogol died in Moscow Feb 21 1852

Goidel Old Irish name of the early branch of the continental peoples

of the bronze age Their speech survives in Irish, Scottish, Gaelic and Manx John Rhys introduced the name to replace Gadhel in 1882

Goitre Swelling on the neck, enlarged thyroid glands Simple goitre, or bronchocele, is endemic in certain goitre, or bronchocele, is endumed mountain valleys throughout the world, e.g., parts of Switzerland, Derbyshire (where it is collect Derbyshire neck) and Himalayas, women are more susceptible to it than men rodides are often successfully administered while the tumour may be removed surgically Exophthalmic goitre or Graves's disease, is quite distinct. See also CRETINISM

Golborne Market town and urban dis-trict of Lancashire It is 189 m from London by the LMS Rly Here are cotton mills, and in the neighbour-hood are collerles Pop (1931) 7322

Golcar Urban district of Yorkshire, WR It is 200 m from London by the LMS Rly, and 3 m from Huddersfield The manufacture of woollen goods is carried Pop (1931) 9812 on

Golconda Ancient city of India It is about 7 m from Hyderabad, and now a ruin Near by were rich diamond fields, hence the proverbial references to the vast wealth of Golconda

Gold One of the elementary metals Its chemical symbol is Au, from the Latin aurum, its atomic weight is 1972, its specific gravity 1932, and its melting point 1061°C. One of the precious metals

The increase in the use of gold was made casier by the discoveries of rich supplies first in Australia and then in South Africa Before the Great War much gold was coined, but during the war paper money took its place and gold coins have almost ceased to circulate This paper coinage, however, is based upon gold, consequently a large amount of gold is held by the state and other banks as security or cover for the paper money in circulation

Gold is found nearly all over the world, but usually in such small quantities that it does not pay to work it. The main supply comes from quartz, others from dredging certain rivers, where the gold is found in sand and gravel The amount of gold in a ton of gold bearing quartz is often small, but by the use of improved methods mines are worked which a few years ago would have been unprofitable. The world's output of gold remains fairly steady at about £90,000,000 a year. Of this the Transvaal mines produce about half. In 1930 the In 1930 the production of these mines reached the record figure of £45,558,980 Other producing figure countries are the United States, Canada, which is rapidly increasing its output, Russia, Mexico, Australia, Rhodesia and India

Mexico, Australia, Rhodesia and India
Of the gold mined, about three quarters is
used in the arts, gold being always in great
demand for ornamental purposes, e.g., for
rings, watches, brooches and other articles of
iewellery and personal wear, whilst much is
beaten out to form gold leaf When used in
the arts, it is mixed with basic metals to a
varying extent Its purity is indicated by the
number of carats, pure gold being taken as
24 carats. Gold articles are stamped by the
assay offices as being of so many carats assay offices as being of so many carats

Gold, being the accepted standard of value when Moses nearly all over the world, has a marked effect on prices, although the nature of this is a matter of debate among economists A good (1 Kings xii)

who reached Britain before or with the culture, deal was said about this matter during the of the bronze age. Their speech survives in trade depression of 1929 31. Some argued that by making more use of the stocks of gold in the central banks, the bankers could do much to restore prosperous conditions, they could use the huge stocks of gold to create credit and so bring about a trade revival Others argued that this would only mean the raising of prices without any corresponding benefit Another theory is that the annual output of gold is not sufficient to finance the increasing amount of trade in other words it does not keep pace with the output of other commodities. There seems indeed, an extra ordinary ignorance, even amongst experts, of the influence of gold under the changed conditions that followed the Great War The only certain fact is that the value of gold increases with falling prices and falls when prices rise

The Gold Standard is in existence when a country will export gold when there is no other way of discharging its balance of debts abroad Great Britain, by providing for the free export of gold, placed herself in this position in 1926, but abandoned it in 1931 Gold point is the point in the foreign exchanges when it pays a

country to export gold
In April, 1931, the amount of gold held by
the treasuries and banks of four countries was as follows

£969 000 000 447,700 000 146 300 000 United States France Great Britain Germany 115 100 000

Since Dec., 1929, the United States had added £39,000,000 to its stock and France has added £112,000,000 The market price of gold varies considerably, it is usually just about £3 17s 10ld per oz

Gold Coast British colony in West gold was found in its river beds in the 14th century or earlier), with a coastline of 334 m on the Gulf of Guinea Covering about 24,000 sq m, or, with Ashanti and the so-called Northern Territories, is 78,802 sq m in extent on the Gulf of Guinea (the three are under the same government, (the three are under the same street, which consists of a governor assisted by a recentive council) Cocoa, gold, diamonds, mahogany, and palm oil are produced and exported Accra, a seaport, is the capital

The Portuguese visited the coast in the 15th century and during the 19th the district became British, partly by purchase and partly by cession

Goldcrest See WREN

Golden Age Hesiod's mythical period of patriarchal simplicity and innocence It was the period when Saturn, or Cronos, reigned in Latium The phrase is applied to the culminating age of a country's prosperity, literature, or art.

Golden Bull Term used for a charter of exceptional importance, such as was sealed with a golden seal or bull The chief of these was that deave no

bull The chief of these was that drawn up by the Emperor Charles IV in 1356, providing a constitution for the Holy Roman Empire Golden Calf Molten image made by Aaron At the people's

instigation, Aaron converted the ornaments brought from Egypt into a calf for worship, when Moses was receiving the Law on the sacred mount (Ex xxxii) Jeroboam established similar images at Dan and Bethel Holle, were carried off from their enemies Helle fell into the sea, but Phrixus reached Colchis, where he sacrificed the ram Acetes, King of Colchis hung up its skin in the temple of Arts and this was the golden fleece Later, Jason and his Argonauts brought it back with them to Thessaly

Golden Fleece Order of the Euro pean order of knight lood, one of the oldest and most famous in the world Founded in 1429 by Philip, Duke of Burgundy, it was dedicated to the Virgin and S Andrew, and was kept in being by the succeeding Hapsburg and Bourbon dynasties, both in Spain and in Austria until these countries became republics. The badge contained a representation of the golden fleece.

Golden Gate Channel that leads from the Pacific Ocean into San Francisco Bay It is about 5 m long and is so-called because of its beauty A bridge is (1936) in course of construction to cross the Golden Gate The main span will be over 4000 feet and the total length 6640 feet

Golden Horn Opening of the Bos phorus It separates the city of Istanbul, or Constantinople, from the suburbs of Pera and Galata, it is famed for its beauty

Golden Number Chronological term used in de termining the date of Easter and the Upact (qr) It represents the number of the year in the metonic or lunar cycle of 19 years therefore the numbers range from 1 to 19 In the early calendars the number was marked in gold after each year, hence the name

Golden Rod Genus of composite herbs (Solidago) The wide spread S rirgaurea common on British way sides beurs a wandlike spike of tiny yellow flowerheads All the other species of which there are about 100, are American, but S canadensus with pyramidal sprays of yellow flowers is cultivated in British gardens

Golden Rose Emblem of wrought Pope on the fourth Sunday in Lent It is then often presented to a church distinguished person or community At first a single rose it became a thorny spray with leaves and jewelled petals a costly piece of goldsmith's work.

Golden Rule Christ's precept. It is on the Mount "What sever ye would that men should do unto you even so do ye also unto them " (Matt vli 12)

Golder's Green Residential district of London It lies to the NW of the city adjoining Hampsterid Its growth took place entirely during the 20th century

Goldfinch Common British resident song bird (Carduells elegans) Its length is about 5 in and it has black yellow and white wings and bright red throat. It builds a moss lined nest and lays two broads of 4 or 5 reddish spotted blue and white eggs

Golden Fleece Fabled skin of a universally kept in aquaria (and, as a child's the children of the King of Thebes, Phrixus and leading the gold tints having since been Hells, were carried off from their enemies produced by breeding Under favourable produced by orecome other involvance conditions it will live and breed in tanks and ponds of small size. The water must be well acrated and weeds should grow in it

Gold Leaf Thin sheet of for gilding Thin sheet of gold used Each is 252000 of an inch in thickness, and 31 in square Small gold ingots are rolled out to form a strip not more than strip of an inch in thickness. The strip is cut into pieces an inch square, and these are placed itrst, between pieces of vellum, or prepared paper, and then coldbeaters askin and beaten until the required

thickness is obtained
Goldbeater's skin is specially propared from
a part of the large intestines of the ox

Goldsborough Village of Yorkshire trom Knaresborough, on the LNE 111 is 3 m is noted for its hall, which is on the estate of the Earl of Harewood

Goldsmith Worker in gold and precious metals, or dealer in gold and

The Goldsmiths' Company is one of the oldest city companies of London and has its hall in Foster Lane EC, where plate is assayed and hall marked

Goldsmith Oliver Irish writer Born Nov 10, 1728, the son of a clergyman, he went from school to Trinity College, Dublin, but refused to take up any profession although he dabbled in medicine He passed some years in wanderings over furned several properties a living but the I turope before (1756) settling in London He tried several ways of getting a living, but the only one that brought any reward was that of a bookseller's hack In 1759 he published his Traguiry into the State of Polite Lecarning and his fortunes began to mend He started a paper called The Bee In 1760 61 he wrote his Chinese Letters' in The Public Ledger—afterwards issued as 4 Citizen of the World they are the imaginary reflections of a Chinese philosopher on visiting Fagland

In 1761 he became friendly with Johnson and was one of the original members of the

and was one of the original members of the Johnson circle Johnson was pleased to Johnson circle Johnson was pleased to approve of *The Traveller* published in 1764 and in 1768 Goldsmith followed up this success and in 1766 Goldsmith followed up this success with a much greater one, his immortal novol The Vicar of Walefield In 1770, much nisoclianeous work having filled the intervening years, appeared his best poem, The Deserted Village, and in 1773 his dramatic masterpiece She Stoops to Conquer A less successful play was The Good natured Man Goldsmith died in his chambers in the Temple, London April 4, 1774, and his gray is marked London April 4, 1774, and his grave is marked by a statue outside the Temple Church

Gold Stick official at the British in turn by the colonels of the regiments of household cavalry, and the duties are to attend the sovereign on state occasions. There is also a gold stick for Scotland this being the captain general of the Royal Company of Archers

Gold Stripe Mark worn by soldiers of the British army who were wounded in the Great War It was Goldfish small fish ellied to the carp. It were wounded in the Great War. It was brought to England from introduced in 1916 and tool the form of & China or Japan about 1700 and has since been strip of gold lace worn on the left sleeve of the

Goldwyn Samuel American film producer and business organiser Born in Warsaw in 1882, his parents (named Goldfish) took him in 1896 to America, where he was naturalised in 1902 He was a ploneer in urging American authors to write directly He organiced the Jesse Lasky for the screen Photoplay Company and was associated for a time with the great Metro-Goldwyn combine at Los Angeles He wa Life by John Drinkwater He was the subject of a

Golf Popular outdoor game It is played upon links, or open spaces, on which there are obstacles, or "bunkers," such as a sandhill or a pool of water If these are not provided by nature they are usually made for the purpose Each course consists of a number of stretches, usually 18, at the end of each of which is a green with a small hole in the middle of it The aim of each player is to drive his ball into this hole in fewer strokes than his opponent The ball is of wound elastic, coated with rubber Each player has a number of clubs, each adapted for a particular kind of stroke eg, the driver, brassie, iron, mashie, putter and niblick, and variations of these A game is generally played by two players, one against one, but the foursome, in which two players play against two, is a popular variation All over Great Britain there are golf courses,

and the game has taken a great hold in the United States The oldest club is the Royal and Ancient Golf Club at St. Andrews, which is accepted as the ruling authority of the game Clubs hold competitions amongst their members, medals being given and for these there is a system of handleapping, a certain number of stroles being given or received

There are various competitions, for women as well as men The chicf of these is the men's open championships, for amateurs and professionals There are also amateur championships for men and women, for England, Scotland, Ireland, France and other countries Matches are played between the universities, and between Great Britain and the United States In these the teams are usually eighta side

Goliath Philistine of Gath A gigantic man, he challenged Saul's hosts to single combat, whereupon David slew him with a stone from his shepherd's sling (1 Sam xvII)

Gomersal Urban district of Yorkshire (WR) It is 51 m from Bradford, and 214 m from London by the LMS RIY Here are textile manufactures, and there are collieries near Pop 3800

Gomorrah Ancient city near the Dead known Situated, like Sodom, in the Vale of Siddim (Sen xiv), it was the abode of Abram's nephew, Lot Because of their wickedness the inhabitants were destroyed by fire and brun-

Goncourt De Nar Name of two French ists Edmond Louis Antoine Huot was born at Nancy. May 20, 1822, and his brother, Jules Alfred Huot, in Paris, Dec 17, 1830 Until the death of the Louis Paris, Dec 17, 1830 Until the death of the younger (June 20, 1870), they wrote all their works in collaboration, beginning with books on special history and on art, such as Histoire de la Societé Française pendant la Revolution, 1854, L'Art du XVIIIe Siècle, 1859-75 and La Maison d'un Artiste Among their novels

coat. The French army has a similar decora- may be mentioned Socur Philomène, Manctle tion. Salomon and Madame Gercasais Alone, Edmond wrote on art and also produced several novels including La Fille Elisa, he edited the letters of his brother and their combined Journal. He died July 16, 1896, leaving money to found the Goncourt Academy

Gondola Boat used on the canals and lagoons of Venice. It has a prow and stern high above the water, and in the middle is a cabin. It is propelled by gondollers, who stand up for their work, and is used for conveyance of passengers all over the city Many persons have their own gondolas.

The car, or nacelle, fitted to an airship is

also known as a gondola

Gonzaga Famous Italian family One of Mantua in 1323, and his descendants were persons of importance in Italy for 300 years Luigi Gonzaga (1568-91) a member of the Society of Jesus was canonised as S Aloysius. About 1705 the Emperor Joseph I took Mantua, and annexed it to Austria, while Montferrat, another possession of the family, was given to Savoy The duke went into exile, and in 1708 the family became extinct

Good Hope Cape of S Africa This southerly point of the continent, is about 30 m from Capetown and is often called simply the Cape It is about 100 ft. high

Goodrich Village of Herefordshire. About 3 m from Ross, it has an old and interesting church Near are the ruins of a castle, which was built to protect England against the Welsh, probably in the 12th century

Goodwill Connection or reputation attached to a business is an asset, and considerable sums are paid for the goodwill of a sound business When a the goodwill of a sound business business passes at death, a price is usually put upon the goodwill for purposes of probate Many limited companies have goodwill as an asset in the balance sheet, but prudent finance provides for its gradual extinction In some businesses of great value goodwill has been written down to nothing, thus providing the shareholders with a hidden reserve of great value The professional connection of a docto-, lawyer or architect has also a value for its goodwill

Goodwin Sands Sandbank off the Named after the Saxon Earl Godwin, legend says it was once an island on which he had a house The sands are about 6 m from the coast at Deal, and extend for about 10 m from north to south They have a bad reputaion with scamen, as many vessels have been wrecked thereon, and are protected by four lightships

Goodwood Seat of the dukes of Richmond and Gordon. It is 3 m from Chichester and is chiefly cele-Goodwood Seat of the brated for its racecourse, where races take place at the end of July each year, as they have done since 1802

Goole Urban district, market town and river port of Yorkshire (W.R.) It stands at the junction of the Ouse and the Don, stands at the junction of the Cose and the Don, 25 m from Hull, and is served by the L N E Rly The Aire and Calder navigation system also links it with the towns of Lancashire and Yorkshire There are good docks for the shipping of coal and other products, and steamers go regularly from here to the ports of

Scandinavia and the Netherlands. Other industries are flour milling and engineering

Web footed bird of the family analidae The male is called the young goslings There are about andidae The male is called the gender, the young goslings There are about 40 species, among them being the groy lag goose, the bean goose laughing goose brent goose, and barnacle goose Of these, the grey lag breeds in Scotland and Ireland, but other varieties are only visitors to Great Britain.

The domesticated goose is descended from the grey lag, and has been bred for the table (particularly for Christmas fare) in the British Islands for some centuries. In former days the quills of the goose were in great demand for writing, and its down is still of value A flat iron used by tailors is called a goose

Gooseberry Fruit of a shrub of the saxifrage order (ribes grossularia) It grows wild in many parts of the world, and is also cultivated for its fruit. Fruit growers have produced man; varieties and some gooseberries are very large. The fruit is somewhat acid, but is caten both raw and cooked and makes an agreeable preserve

The Cape gooseberry is allied to the tomato It comes from Peru, and is cultivated in India

and elsewhere

Goose Step Popular name of a military balancing exercise Tho body rests upon each leg alternately, the other leg swinging to and fro with straight knee, toe pointed outward, and shoulder squared In ceremonial parades the goose step march averages 75 paces to the minute

Eugene English conductor Goossens London, May 26, 1893, he was a son of Eugene Rosa Opera Company He was educated in Liverpool and at the Royal College of Music, London, and in 1915, after four years as a member of the orchestra at the Queen's Hall, London became associated with the Beecham

London became associated with the Beecham Opera Co. He founded an orchestra and gave concerts of his works in I ondon and other centres. His opera Juddh was produced in 1929 Gopher Various small N. American rodents. They include ground squirrels allied to the Old World susiliss, prairie dogs, and pocket cophers or pouched rate. The name is also applied to a N. American land tortoise (testudo polyphemus), which is destructive to potato crops, but its flesh is estremed.

esteemed

Gopher Wood Untranslated and un name of the timber of which honh built the ark (Gen vi) The word denotes a resin name of the timber of which stone standard arcsin yielding tree, of those suggested cedar, pino, and cypress, the last is likeliest to be the gopher. The name applies also to the N

American leguminous yellow wood tree, cultivated for the shade it gives

Gorbals District of Glasgow, once a separate hurgh It is on the Clyde and on the LMS Rly The industries are those of Glasgow with which it was incor-

porated in 1846

Gordian Knot In Greek legend in tho fa tening of his ox cart by Gordius a Phrygian who founded Gordium An oracle declared that te who loo ened the knot would master Asia Alexander the Great cut the knot with his word. The phrase cutting the gordian knot therefore denotes hold solutions of knotty points.

Gordon Scottish family Its founder is said to have been a Norman who settled at Gordon in Berwickshire Sir Adam Gordon fought for Robert Bruce, and was rewarded with lands in Aberdeenshire where the family become year. where the family became very powerful and which still remains the centre of its influence In 1445 one of the Gordons was made Earl of Huntly, and in 1599 the 6th carl was made a marquess George, the 4th marquess, was made Duke of Gordon in 1684, and there was a Duke of Gordon until the 5th duke died in a Duke of Cordon Castle, near Fochabers, and his estates passed to the Duke of Richmond, who in 1876 was made also Duke of Gordon Another branch of the Gordon family is represented by the Marquess of Aberdeen

The Gordon Highlanders is one of the most famous regiments of the British Army It consists of the old 75th and 92nd regiments of the line The former was raised in 1788 among the Gordons, and the latter in 1794 by the 4th Duke of Gordon and his beautiful wife, Jane Maxwell The regimental depot is at Aberdeen

Gordon

Charles George British soldier, born at Woolwich, Jan 28

1833 He saw service in the Crimean War in 1855, and in China in 1860 and 1863 64, in command of Chinese troops, successfully crushed the Taiping Rebellion, thereby gaining the nickname of "Chinese" Gordon At the Charles George British soldier, the nickname of "Chinese" Gordon At the request of the Khedive, he was, in 1874, sent to organise the Egyptian Sudan of which from 1877 to 1880 he was governor. Sent to the Sudan again in 1884 to organise the withdrawal sudan again in 1884 to organise the withdrawai of troops before the Mahdi's advance, he was besieged in Khartoum After an heroic defence of nearly 12 months the city was captured, Gordon being slain, Jan 26, 1885 The Gordon Bovs' Home, near Brookwood Surrey, was erected in memory of General Gordon It accommodates 250 homeless and destitute boys, who are trained for civil life and the services There are homes of a similar

kind in other places

Gordon Riots Rising that took place in London June, 1780
The Roman Catholics in Great Britain lived under serious disabilities, some of which were removed in England in 1778, though it was found impossible to do the same in Scotland, found impossible to do the same in Scotiana, public opinion being too strong In 1770, to oppose this removal, a Protestant Association was formed, and Lord George Gordon, a younger son of the 3rd Duke of Gordon, became its leader On June 2, 1780, he marched with a petition from St George's Fields to West minster at the head of 60,000 persons. There are a good deal of disarder, and some Roman was a good deal of disorder, and some Roman Catholic places of worship were damaged There was further rioting on the 4th, when the Bank of Fingland was attacked and the prisons forced. The ministers alarmed at the strength of the movement feared to act but George III ordered the military to put down the rioters by force This was quickly done The riots are described in Dickens Barnaby Rudge

Lord George Gordon was tried and acquitted as being insane but 21 others were executed Later he was concerned in other exploits, and dled in Newpate Nov 1, 1793

Gore charles I nglish prelate and theologian Horn Jan 20, 1853, he was made Bishop of Worcester in 1902 He was largely responsible for creating the new Discession of Birmingham and was bishop there from 1305 to 1911, when he became Bishop of Oxford, which post he resigned in 1919 He was one of the authors of Lux Mundi, and has written a number of theological works, being known also as a worker for social reform He died Jan 17, 1932

GORGONS

Gorgons In Greek mythology, threeing to Hesiod they were named Stheno, Euryale, and Medusa; they had snakes for hair, and turned all who looked upon them to stone Medusa, who alone was mortal, was slain by Perseus, watching her mirrored in his shield, so that he need not look upon her The Gorgoneion, or Gorgon's head, is a favourite door ornament

Gorgonzola Town of Italy It is about 12 m NE of Milan, and is famous for the cheese bearing its

Gorhambury Estate in Hertfordperty of Lord Bacon, it is 2 m from the property of Lord Bacon, it is 2 m from the Albans
The present house was built late in the 18th
century, in the park are the ruins of one in
which Bacon lived In 1626 it passed out of
the possession of the Bacons In the 19th
century it became the seat of the Earl of
Verulam, but he sold it in 1931

Gorilla Largest of the man-like or anthro-Equatorial Africa Allied to the chimpanze, it differs in having small ears, an elongated head, nasal grooves, arms reaching to the knee, small thumbs, and beetling brow ridges Its coarse hair is generally blackish in colour, with a chestnut head The males are as much as 61 ft. the females 41 ft in height. Unable to walk erect, they support themselves on the fore knuckles They are practically untameable, and seldom live long in captivity In 1930 a sanctuary for gorillas was made in Uganda

Goring Village of Oxfordshire It stands on the Thames, 9 m from Reading, opposite Streatley in Berkshire, on the GW Rly It is much visited for boating, being one of the beauty spots of the Thames Goring Gap is the depression in the chalk hills through which the Thames flows

through which the Thames flows
Another Goring is the seaside resort in
Sussex, now part of the borough of Worthing

Gorizia City of Italy, much visited by 23 m from Trieste The old town retains its walls, outside which a new town has been built. There are some manufactures and a trade in agricultural produce

Gorky Madm Russian author Born at Nijni Novgorod, Mar 14, 1868, and christened Alexei Maximovitch Peshkov, at the age of nine he was apprenticed to a shoemaker In 1884, failing to enter Kasan University, he took up a wandering life, the experiences of which served as useful material for his pen In 1892 he published Makar Chudra, and in 1893 Chelkash, his first success This was followed by many other works, including Foma Gordeyev, Konovalov, and a drama, called in English, At the Lovest Depths Dealing in arresting fashion with the sordid side of life, Gorky is one of the greatest and most realistic of the Russian writers During the Great War he served with the Red Cross service after which he joined the Bolshevists In 1924 he published an autobiography, Fragments from My Diam.

Gervice after which he joined the Boisnevists
In 1924 he published an autobiography,
Fragments from My Diary
Gorleston Watering place of Suffolk.
It stands at the mouth of
the Yare, 122 m from London, on the L.N.E.
Rly The sands are very good and there are

golf links Gorieston is included in the Borough of Great Yarmouth

Gorse Alternative name for furze (q v), a prickly evergreen flowering shrub

Gorsedd Name used in Wales and Cornwall for a national assembly At these, bards contend for prizes, and they are almost identical with the eisteddfods One was held near Penzance in 1931, this being a revival of a ceremony a thousand years old

Gorst Sir John Eldon. English politician. Born at Preston, May 24, 1835, he was educated there and at Cambridge In 1866 he entered Parliament as Conservative M.P for Cambridge town, from 1875-92 he represented Chatham and from 1892-1906 his own university In 1885-86 he was Solicitor-General, in 1886-91 Under-Secretary for India, and in 1891-92 Financial Secretary to the Treasury He was Minister for Education, Sir John Eldon Gorst, was British Consul-General in Egypt 1907-11

Goschen by the family of Goschen George Joachim Goschen was born in London Aug 10, 1831, the son of a banker who had settled in England In 1863 he was elected MP for the city of London, in 1865 Vice-President of the Board of Trade in the Liberal ministry, and in 1866 he became Chancellor of the Duchy of Lancaster and a Cabinet minister Between 1868-74 he served under Gladstone, first as President of the Poor Law Board, and then First Lord of the Admiralty, and in 1880 he went to Turkey as ambassador

Never an advanced Liberal, Goschen opposed Home Rule, and as a Unionist succeeded Lord Randolph Churchill, 1886, as Chancellor of the Exchequer, when he carried through the conversion scheme of 24 per cent consols He retained office until 1892 and from 1900 to 1905 was First Lord of the Admiralty In 1900 he was made a viscount and left the House of Commons where he had sat, with slight intervals, for a succession of constituencies since 1863 He died Feb 7, 1907

Gosforth Urban district of Northumberland. It is 3 m from Newcastle on-Tyne, on the L NoE Rly In Gosforth Park race meetings are held Pop (1931) 18,042

Another Gosforth is a village in Cumberland, 12 m from Whitehaven.

Goshawk Bird of prey (Astur), of the goshawk, A palumbarius, is the largest, shortwinged hawk used in falconry, the fomale being flown at rabbits, and the male which is smaller, at partridges Once common, it rarely comes nowadays to Britain

Goshen Fertile region in ancient Egypt Allotted to the patriarch Joseph and his kinsmen, the Hebrews occupied it for the several centuries of their sojourn in Egypt It lay east of the Nile

Gospel Oak London street. It runs between Haverstock Hill and Rochford Street, and is so named because under an oak tree, between the parlshes of Hampstead and St. Pancras the gospel was read when the bounds were beaten The name was given to the district around

Gospel Word meaning good tidings It is used especially for the first four books of the New Testament that are known collectively as the Gospels Together

they give practically all the known facts about the life and teaching of Jesus Christ The first three, written by Matthew, Mark and Lule, are called, from their similar structure, the synoptic gospols the fourth ascribed to John, emphasises certain other aspects The synoptists are interdependent because they used common sources Mark the earliest, utilised Peters personal knowledge, Matthew probably penned his own memoranda, which may be the conjectural source semetimes called Q, whence the first and third evange lists derived the additional matter engratted upon Mark Of Marks 661 verses all but 30 are in Matthew or Luke or both, Matthew and Luke collectively contain 200 more

Wycliffe's followers were called gospellers and later the term hot gospellers was given

Gosport Scaport and borough of Hamp kind on the S Riv, and stands on the west side of Portsmouth Harbour A forry and a floating bridge connect it with Ports mouth The Royal Clarence yetualling yard and barracks are here Near is the Haslar Hospital The urban district includes Alvorstol e and Stokes Bay Pop (1931) 37,028 37,928

GOSS Name of a make of ivory porcelain invented by William Henry Goss Produced first at his Stoke pottery in 1858, its best known form is armorial china in qualit shapes, bearing the arms of towns, colleges and other places of interest. His Parian busts and large, jewelled, Sèvres

like vases are also famed

Parian busts and large, Jewellea, Sevres like vases are also famed

GOSS Sir John English organist and CoSS composer Born at Farcham, Hants, Dec 27, 1800 in 1811 he became a chorister of the Chaptl Royal, London He was made organist of S Luke's, Chelsea, 1824, and in 1838 succeeded his master, Attwood, as organist of S Pauls, London being knighted on his resignation in 1872 He died May 10, 1880 Goss was the composer of some fine anthems and other church music

GOSSE Sir Edmund William English Gosse writer The only son of Philip Henry Gosse the naturalist he was born in London Sept 21 1819 He was educated privately under the eves of his father and acquired a remarkable fund of knowledge In 1867 he became an assistant in the British Museum in 1875 translator to the Board of Tride and in 1904 librarian to the House of Lords In 1914 he retired Ho was knighted in 1925 and died May 16, 1928, leaving a son Philip, also a writer

Philip, also a writer

Gosse found time for much reading and writing as well as for association with other writing as well as for association with other scholars and was one of the leading literary men of his day. He wrote on I nglish and foreign literature, his writings being marled by a charm of style that added to their value 15 a poet he wrote Vadrigals Songs and 16 song happened in 1911 Criticism and learned poems appeared in 1911 Criticism and learned poems appeared by Gossip in a Library, Critical Kit Kats Portrails and Library, Critical Kit Kats Portrails and Library, Critical Kit Kats Portrails and Studies and lives of Donne Gray Swindurne Patmore and others. In 1913 he issued five volumes of Collected Fesans and in 1919 Dirersions of a Van of Letters. He also wrote a drawna King I rick and a novel The Dream of Vareises but to many his greatest certainly his most intimate book is Father and Son in which with remarkable restraint and Tower he tells the story of his own childhood.

Gosse also wrote a good deal on French and Scandinavian literature

Goteborg City and scaport of Sweden, formerly called Gothenburg. It stands near the mouth of the river Göta, on the SW coast of the country and is its largest scaport. It is 285 m from Stockholm, and is an important railway centre Canals flow through the streets. The cathedral way well it the 10th central management of the country of was rebuilt early in the 19th century There is a university

Göteberg has a fine harbour, and does a very large trade in timber and other products It has also some manufactures including shipbuilding, and is a fishing centre. It has a broadcasting station (322 M 10 kW) It was founded by Gustavus Adolphus in 1619 Pop

233 300

The Gothenburg System is one for the control of the liquor traffic. It was started in the city in 1871, and has been copied by other places. Under it, the liquor is sold in houses which are managed by a company under the control of the municipality. This can only make a small profit on its capital and those in charge of the houses have no interest in promoting the sales of drink. The system is practically the same as that of the Public House Trust in Great Britain.

The Göta Canal is a ship canal that goes from Göteborg to the Baltic at Mom. It is 240 m long, but for much of its course uses the river Göta and the Lakes Wener and Welter. The Gothenburg System is one for the control

Welter

Gotha Town of Thuringla Germany from Erfurt, and before 1918 was one of the capitals of the State of Saxe Coburg Gotha The town has an observatory Gotha is celebrated as a publishing centre, especially for maps, and the Almanch de Gotha was long published here There are some manufactures. Pop 45,800

The Gotha is the name of a German aeroplane It is a small, swift biplane, many of which were built and used during the Great War for raids on England

Gotham Village of Nottinghamshire Its main interest is its connection with the stories of the wise men of Gotham These are said to have performed the most foolish actions such nave performed the most localish actions such as building a hedge round a cuckoo to imprison the bird. The collection of 20 stories about them is called Merry Tales of the Mail Men of Gotham and their exploits are mentioned in books and plays of the 15th and 16th centuries

books and plays of the 13th and 16th centuries

Gothic Term denoting association with
the Goths (7v) It indicates
successively their unpolished manners and
art their language which was once widespread is now known mostly from Ulphilas s
4th century Bible translation, in which he
uses an alphabet of Greek Latin and runle
characters and the pointed black faced
letter used in the earliest printed books

GOTHIC ARCHITECTURE Its most popular use is for the form of architecture called
Gothic although this has no connection with
the Goths It arose in France about 1150,
and was much used for cathedrals and churches
in that country Its distinguishing feature is
a pointed arch, which has made possible great
beauty of design It was soon brought to
Freland where it flourished until about 1550,
in periods known as Farly English, Decorated
and Perpendicular There was a revival of
Gothic architecture in the 19th century, but
It is less suitable for secular than for ecclesi-

astical buildings, and at that time most new

567

buildings were secular

By common consent the Gothic Cathedral is one of the greatest products of the human mind England and France contain many, Chartres, Canterbury and Salisbury for example Westminster Abbey, London, the Sainte Chapelle in Paris and King's College, Cambridge, are other examples of its unsurpassed beauty

Goths Name of a Teutonic people They probably came from the N of Europe, where Gothland perpetuates their name, they were, anyhow, dwelling on the shores of the Baltie in the 1st century. In the 3rd century they were in the SE of Europe, and were fighting the Romans Soon they were divided into two branches, the eastern being the Ostrogoths and those in the western, the Visigoths Owing to the preaching of Ulphilas they became Christians

For a time the Goths lived in Dacia at peace with the Romans, but about 400, having in Alarica warlike and ambitious leader the Visigoths began to move They marched westwards, reached Italy and in 410 captured and plundered Rome In a short time, however, they left Italy and established a Gothic kingdom in France and Spain, its capital being Toulouse and its first king Theodoric In Spain they conquered the Vandals and occupied a dominant position until their last king Roderic, was killed in battle with the Moors in 711 In France they had been overthrown by the Franks under Clovis early in the 6th century. Such was the end of the Visigoths

century Such was the end of the Visiroths
After the Visigoths had moved westward, the Ostrogoths were conquered by the Huns, but this subjection was only of brief duration About 520 they, too, marched into Italy, where they appeared as the emissaries of the Empire at Byzantium They established themselves there under their leader, Theodoric, who made Ravenna his capital, and, although professing allegiance to the emporor, ruled as an independent sovereign Soon after his death, in 526, Justinian sent Belisarius against the Ostrogoths A long struggle took place, its end coming when Narses, the successor of Belisarius, destroyed the power of the Ostrogoths who, like their fellows, disappeared from history

Gottingen Town of Germany It stands on the Leine, 67 m from Hanover, and has many objects of interest In the old town the chief buildings are the Rathaus and the Church of S John, while in the market place is the goose girl fountain. The industries include the manufacture of chemicals and scientific instruments another is publishing. The university, founded by George II in 1734, has a fine range of buildings, including a library, laboratories, museums and an observatory. Pop 37,000

Gottland Island in the Baltic Sea, also called Gothland It belongs to Sweden, being about 60 m from the SE coast of that country The largest Baltic Island, it is 70 m long and covers 1220 sq m Visby is the capital, and there are some smaller towns The soil is fertile and agriculture flourishes Railways serve the island In the Middle Ages, Gothland belonged to the Hanseatic League, being annexed by Sweden in 1645 Pop (1931)

Another Gottland is one of the three provinces into which Sweden was formerly divided. It included the S part of the country

Gouda Town of the Netherlands It stands where the River Ysel joins the Gouw, 12 m from Rotterdam Canals flow through the town, which is famous for its cheese Pop (1932) 29,832

Gough Viscount Irish soldier Born

Gough Viscount Irish soldier Born at Woodstown, Co Limerick, Nov 3, 1779, Hugh Gough entered the British Army, seeing service during the French wars, notably in the Peninsular War Sent to India in 1837, he was given command in China, 1841-42 In 1843 he was made Commander-in-Chief in India, in which capacity he successfully fought the Mahrattas in 1843 and the Sikhs in 1845 and 1848 He was then superseded by Sir Charles Napier, and retired In 1842 he was made a baronet, in 1846 a baron and in 1849 a viscount He died March 2, 1869 The title is still held by his descendant

Gough sir Hubert de la Poer British soldier Born Aug 12, 1870, he was educated at Fton and Sandhurst joining the 16th Lancers in 1889 He served in the Tirah Expedition, 1897 98, and the S African War, 1399-1902 In Ireland in 1914, being then in charge of a Lancer regiment, he resigned his commission rather than fight against Ulster However he commanded the 3rd Cavalry Brirade in France in 1914, and was soon appointed to a division and then to an army corps In July, 1916, he was selected to command the 5th army His conduct of the operations at the third Battle of Ypres in 1917 was severely criticised, and when his troops fell back before the Germans in March, 1918, he was recalled. In 1919 he was appointed chief of the Allied Mission to the Balt'c States, and he retired from the army in 1922 He received his knighthood in 1916 In 1931 Gough wrote his own account of the events of 1918

Goulburn City of New South Wales It stands on the river Wollondilly in an agricultural region and a connected by rly with Sydney, which is about 115 m distant, and is a railway junction Its industries include brewing, tanning and boot-making There are two cathedrals Pon (1931) 12,570

There is a river Goulburn in Victoria This is a tributary of the Murray, and is 345 m long

Gould Sir Francis Carruthers English carleturist Born at Barnstaple, Dec 2, 1844 he was for some 20 years a member of the Loudon Stock Exchange In 1879 he first illustrated the Christmas number of Truth, and in 1887 he contributed cartoons to The Pall Mall Gazette He later became assistant editor and cartoonist of The Westminster Gazette for which he did some of his best work His publications include Who Killed Cock Robin? 1897 Froissart's Modern Chronicles, 1902 03 and Picture Politics, which were periodical collections of his Westminster cartoons He was knighted in 1906, and died Jan 1, 1925 Gould was the most popular caricaturist of his day His pictures were clever, and without any trace of mallee

Gould Jay American capitalist Born at Roxbury, New York, May 27, 1836, he left his father's farm in 1852 to work in an ironmongery store, learning surveying in his spare time After a short period in the timber trade, he took advantage of the railway panic in 1857 to buy railroad shares, becoming president and manager of the Rut-

lend and Washington line. He became a diet and general hygiene, and alcohol should broker in New York in 1859. Acquiring be avoided interests in railway lines he obtained control of several, and so amassed a great fortune 1881 he formed the Western Union Telegraph sistem He died Dec 2, 1892, his son Georgo Jay Gould (1864 1923), succeeding

to his railway and other interests

Gounod Charles François French com
poser Born in Paris, June
17, 1818, he was admitted to the Conserva
toire in 1836, and in 1839 won the Grand Prix toire in 1836, and in 1839 won the Grand Prix de Rome His first opera Sappho, was produced in 1851 and a year later Ulysse was played In 1858 his operatic version of Molières Ir Médecia Malgré Lui was performed at the Theatro Lyrique, and at this theatro his masterpiece, Faust, based on Goethe s play, was produced on March 19 1859 It was produced by numerous others. Including others, including followed by numerous He also composed Romeo and Juliet, 1867

heautiful church music, masses and oratories heautiful church music, masses and oratories He died Oct 18, 1893

Couraud Henri Joseph Eugène French soldier Born in Paris, Nov 17 1867, he entered the army in 1890 and say service in the Sudan and Morocco In May, 1915, having until then been at the head of a colonial army corps, he was given com-mand of the French forces in Gallipoli, where he was severely wounded, losting his right arm. In Dec 1915, and again, 1917 19, he commanded the 4th Army. In 1919 he was appointed High Commissioner in Syria and Commander in Chief in the Levant in 1922 he became a member of the Supreme Council of War, and in 1924 was appointed Military Governor of Paris

Gourd Succedent fruit of various trailing herbs (Cucurbilaceae) of the pump kin order Mostly of Asian or Mexican origin they were cultivated in antiquity, and are mentioned in the Bible. The most valuable is the S. European globular yellow gourd derived from the genus cucurbita maximo which sometimes reaches 240 lbs in weight Other edible forms are the pumpkin and the marrow Various genera include the snake courds bitter gourds or coloevaths water mulons, must melons and calabashes

Gourock Burgh and watering place of Renfrewshire It is 3 m

from Greenock on the S side of the litth of Chile on the LMS Rly There is some shipping, and it is a vachting centre fie (amble Institute is the chief building Pop (1931) 8\$44

Gout Constitutional disorder It is manifested by acute inflammation of the smaller joints especially of the great toe and is characterised by increase of urle acid in the blood and deposition of sodium uratein the joints. It is dominated by a specific but unknown cause, called the gout; dlathesis or predisposition and is affected by heredit; inadequate exercise and over indulaence in rich foods and alcohol—it only attacks adults is commoner in men than in women, and may

milk diet adopted with frequent draughts of atle alkaline mineral water. Wine of colchicum As a term for the men responsible for the alkaline mineral water. Wine an attack In affairs of the country, the government means Chronic Gout attention should be paid to the

District of Glasgow It stands on the S side of the Clyde, oppo It stands Govan site the city proper. Its industries are ship building and engineering. There is also some shipping. Elder Park is an open space Until 1912, when it was included in Glasgow, Govan was a burgh with its own council and a population of about 90,000

Government System or method of governing, also the per sons who form the governing body of a country gorerments were classified by Aristotle according to whether they were directed by the one, the few or the many, there being a good and a bad form of each Wo may call these monarchy or tyranny, autocracy or oligarchy and democracy there were examples of all in the ancient world, though not bethers many of democracy. ampies of all in the ancient world, though not perhaps many of democracy. In addition there were governments, the Jowish, for instance, in which the priests plaved a large part, these being called theocracles. Conturies earlier, as scholars are proving, early man had his forms of government, which were neither so primitive nor so uniform as was at one time supposed.

The Greek's experimental with democracy.

The Greeks experimented with democracy but for some centuries most of the world a governments were autocracles or eligarchies the people haring little or no voice therein Under the influence of the Church, the Middle Ages discovered the idea of representative government, and in developing this idea England took the lead In the course of time representative government became the rule throughout the civilised world, but it was not tendence the tendence, for the representation was that of only a small class in the community Government rested, however, as it must always do among intelligent people, on the consent of the governed, though that consent was passive rather than active. The next was passive rather than active of the consent of the governed that consent was passive rather than active. representative government became the rule was passive rather than active. The next step was to make those who controlled affairs responsible to the representatives again Fagland took the lead

again Fugland took the lead
The great age of democracy proper began
with Rousseau and the ideas of the French
Revolution Gradually it gained ground, and
it may be said to have reached its apogee
when in the 20th century, women were given
the vote in many countries. This made these
governments for the first time real demo
cracies, as all adults had a part therein
Government by the people, of the people,
for the people was realised. After the Great
War two new forms of Government arose, with War two new forms of Government arose, with far reaching and important implications. One was the Soviet Government set up in Russia in 1922 by the Communist Party, and based on the idea of a series of local elective bodies sending delegate to higher bodies, from the village and town soviets at the base to the All Russian Congress of Soviets at the top From this Con gress is elected the Central Executive Committee which elects the Council of People 8 Commissars whose Chairman is President of the USSR

be acute chronic or irregular and may be acute chronic or irregular and may be acute chronic or irregular and tack a lead and a fulum fomentation should be applied to the arisen in ltaly and Austria under the Fasel-taffected Joint which should then be wrapped in cotton wool and kept at rest in an elevated position. Three grains of calomid followed are contrary to all ideas of constitutional to a saline aperion wholld be given and a government and their effects are so far problem with the about with transmit at the state under the Sal system. Both systems a saline aperion who the face of the USS R.

state These are united by some bond, usually a similarity of political opinions, and at their head is a Premier, or Prime Minister, called in some countries the President of the Council The government may be called after the country, and we hear of the French or Italian Governments, meaning the men in charge, for the time being, of the affairs of that country, or it may be known as a Liberal or Socialist Government, according to the opinions of the men who comprise it, or it may be known by the name of its leader, as the Baldwin or the Briand Government A change of government comes about in various ways, but is usually due to a loss of confidence

Governor Official who governs a colony of the king or other head of a state. In the British Empire, the governors of the self-governing dominions, Australia, Canada, etc., are called Governors-General They rearo called Governors-General They re-present the king, and like him keep quite outside party politics Other colonies and dependencies, such as Ceylon and Fili, have governors, and in some, Nigeria for example, there are lieutenant-governors, who under a governor look after a part of a colony governor also acts usually as Commander-in-Chief The six states of the Australian Commonwealth have each a governor, but the provinces of the Dominion of Canada have lieutenant-governors appointed by the authorities there

France and other countries with colonial ossessions send out governors In the United possessions send out governors States each state has a governor, who is elected for two or four years, and paid a

salary

Governor Appliance on an engine for maintaining a uniform working speed under varying resistance. The ball governor introduced by James Watt is the usual type on stationary steam engines, and consists of two balls so attached to a vertical shaft rotated by the engine as to outward movement of the balls opens the chrotile valve, thus reducing the amount of steam pressure

Gowbarrow Hill or fell near Ullstrict It is on the N side of the lake and on it is Gowbarrow Park, which, in 1906, was bought by the National Trust The fell is 1580 ft high

Gower District of Glamorganshire It county, being almost surrounded by the Bristol Channel It is 15 m long and about 6 broad, and has Mumbles Head at one end and Worms Head at the other Swansea and Onstermouth are the chief towns Gower, Gower, or Gwyr, is famous for its romantic scenery and its castles These were built by the and its castles These were built by the Normans, who conquered the district in the 12th century For long it had its own earl and sheriff, and was English rather than Walsh In 125 it was made part of Glomorous. Welsh In 1535 it was made part of Glamorgan-⊱lure

Gower John English poet from the allusions to his sober and moral character made by his friend, and moral character made by his friend, he was And moral character made of his friend, Chaucer, little is known of his life. He was born about 1326, dwelt mostly in Kent, went blind shortly before his death in 1408, and was buried in S Saviour's, Southwark In theology, grace is the list three works are Speculum Meditants, favour shown by God to m in French, Vox Clamants, in Latin, which

tells of Wat Tyler's rebellion, and Confessio Amantis, in English, a collection of tales

Earl of Scottish have from 1581 to 1600, by the three The 1st earl, William, Gowrie family of Ruthven The 1st earl, William, 4th Lord Ruthven, was executed for treason in 1584, being succeeded by his son William, who died in 1588 His brother John, 3rd and last Earl of Gowrie, was concerned in the and last Earl of Gowrie, was concerned in the mysterious Gowrie Conspiracy This occurred in Gowrie House, Perth, Aug 5, 1600 According to James VI, he was enticed there by Alexander Ruthven, brother to the earl, and by him led to a secluded wing, his life being then threatened The king's followers arriving. Alexander was killed, and so was the Earl of Gowrie, who now appeared

Francisco Lucientes Gova José do Spanish painter Born of peasant stock in a village of Aragon in 1746, he went to Saragossa to study art His lawlessness made a flight to Madrid necessary, and thence he went to Italy Returning to Madrid in 1775, went to Italy Returning to maintain in 1115, he designed many tapestries for the royal tapestry factory at Santa Barbara, and was commissioned by the king to paint frescoes He became court painter, and painted portraits of four of the Spanish sovereigns, as well as numerous members of the court is in his portraits that Gova's genius is best revealed He also produced remarkably fine etchings He died at Bordeaux, April 16, 1828

GOZO Island in the Mediterranean Sca Belonging to Great Britain, it is g m long and covers 26 sq m It is 4 m from Malta, from which it is governed The chief towns are Victoria and Fort Chambray Pop 20,000

Gracchus Name Romans of three famous s Tiberius Sempronius Gracchus, Governor of a province of Roman Spain, and twice consul in the 2nd century BC, married Cornelia, daughter of Scipio Africanus They had two sons, and Cornelia's devotion to them, together with her high character, have made her one of the most renowned of Roman matrons.

The elder son, named like his father, having been elected tribune in 133 B c, tried to secure some part of the public lands for the poor His proposals led to scrious trouble, and during some fighting he was killed In 123 his younger brother, Gaius Sempronius Gracchus, was elected tribune and took up the same cause only to meet with the same fate as his brother Gaius Sempronius Gracchus, was His death took place in 121 BC

Favour of one kind or another Grace Favour of one kind or another In this sense a grace is the opposite of a right Days of grace are days, usually three, allowed for the payment of bills of exchange beyond the specified time Permission to take a degree at the older universities is called a grace An archbishop and a days are addressed as your grace. duke are addressed as your grace

Another kind of grace is the thanksgiving said before and after meals, it is said in schools and college halls, and sometimes at public dinners Many forms of grace are in Latin, this being the case at Oxford and Cambridge and at the older public schools Popular short graces are Benedictus benedicat (May the Blessed bless), and Benedicto benedicatur (May the blessed be blessed)

In theology, grace is the term used for the favour shown by God to mankind Its essence

Man has sinned.

but salvation is possible, not through his own merits, but by the grace or favour of God It is expressed in the famous saving attributed to Bunyan when he saw a criminal going to execution "There but for the grace of God goes John Bunyan

In mythology three goddesses (Aglaia, brightness Euphrosyne, joyfulness, and Thalia, bloom), daughters of Zeus, were

Grace William Gilbert English cricketer Born at Downend Gloucestershire. July 18, 1848 he was the son of a doctor and July 18, 1848 he was the son of a doctor and himself entered that profession In 1863 he began to play in first-class cricket matches and in 1870 he joined the Gloucestershire team He remained a member of it, for much of the time as its captain, until 1899 He then became manager of the London County Cricket Club, continuing to play cricket almost until his death, Oct 23, 1915 Great as batsman, bowler and fieldsman, Grace played cricket for 50 years, and for over 30 was a leading fleure in first-class cricket.

over 30 was a leading figure in first-class cricket, in which his exploits won for him the title of champion Some of his feats have been surpassed by others, but when all is taken into account, he remains the greatest cricketer who ever lived In first class cricket he scored over 50,000 runs and took over 2800 wickets In 1871 he scored 2739 runs in the season and in 1895 he scored 2340 His highest score was 344 In addition to being captain to Gloucestershire, he captained England in a number of test matches against Australia and was for long the recognised leader of the Gratlemen in their matches against the Players, one such occasion being on his 50th birthday In 1891 92 he captained the team that went to Australia

Graces knowledge of the game was un-ralled. For years his massive figure and which he played whilst his name was familiar in every quarter of the land. To mark his shilling fund for him Grace wrote a book on cricket. Two of his brothers, Henry Mills Grace and George Frederick Grace, were also

noted cricketers

Gradient Term applied to the degree of slope on a road or railway As a steep rise affects the hauling power of an engine the gradient on most railroads seldom rises above 1 in 80

The term is applied also to the difference in barometric pressure between two places at a distance from one another the gradient being measured by  $\chi_{i_0}^1$  the of an inch difference between the barometer readings at a distance

of 15 mutical miles Grading Method of marking and arrang ing agricultural produce so as to show its quality. In 1928 a national scheme of grading was introduced into Great Britain It is used for apples eggs potatoes and other foodstuff. At certain places there are stations for grading the fruits and vege tables

Graeco-Persian Wars. GREECT

THERMOPYLAF MARATHO SALAMIS Grafting In gardening the removal of a bud or branch (scion) to the stem (stock) of a more vigorous tree By this method the graft or scion becomes invigorated by its union with the stock thus experience in A Private in the Guards resulting in carller and increased production the war be returned to his wanderly of flowers and fruits

Different methods are followed, such as tongue wedge, saddle and cleft grafting. In tongue grafting a wedge shaped opening is made in the stock, and the scion is cut to fit it and embedded firmly The graft is pro-tected by wax or clay until a union of the tissues is effected

Grafting is also used in surgery A piece of skin or bone is grafted on to another piece in order to cure a wound or for some other

curative purpose

Grafton City and river port of New South Wales It stands near the mouth of the River Clarence, 310 m from Sydney and 45 from the sea There is a trade in the produce of the surrounding district shipping is carried on and there are sugar mills Pop with South Grafton (1931), 6,560

mills Pop with South Grafton (1931), 6,500

Grafton Duke of English title borne
by the family of Fitzroy
since 1675 Henry Fitzroy, son of Charles II,
and Barbara Villiers, Duchess of Cleveland
was made Duke of Grafton in 1675 Lord
High Constable under James II he trans
ferred his alleglance to William III, and died
fighting for him in Cork in 1690 Augustus
Henry, the 3rd duke (1735 1811), was a
prominent statesmen of his time A sup
porter of Chatham he was 1st Lord of the
Treasure and nominally Prime Minister in
1766 67 and Lord Privy Seal in 1771 75
and 1782 83 The 7th duke, a general, who
fought at Inkerman, died in 1918, and was
succeeded by his son His eldest son is known
as Viscount Inswich and the family seat is
Euston Hall, Thetford
The Grafton Gallery is a picture gallery in

The Grafton Gallery is a picture gallery in Grafton Street Piccadilly, London W, where exhibitions are held from time to time

exhibitions are held from time to time

Graham Sir James Robert Goorge Eng lish politician Born June 1, 1702, at Netherby he was educated at West minster School and Oxford He received a training in diplomacy when in 1813 he acted as private secretary to the British minister in Sicily In 1818 he entered the House of Commons as a Whig and after an absence returned to it in 18°6 In 1824 he succeeded to the family baronetcy In 1830 Sir Robert was made First Lord of the Admiralty, but he resigned in 1834 From 1841 46, he was Home Secretary in the ministry of Sir Robert Poel He succeeded Peel as leader of his party in 1850, and from 1852 55 was again 1 irst Lord of the Admiralty He died Oct 25 1861 25 1861

Graham Peter Scottish painter Born in Edinburgh in 1836, he studied art and soon began to exhibit In 1866 he settled in London He was elected RA in 1881 and died Oct 19, 1921 Graham is Inown for his pictures of scenery in the Scottish Highlands and Especially for his cattle "Rainy Day" is in the Tate Gallery London

Graham Stephon English writer Born in 1884, he spent many of his early years in Russia living among the peas He also travelled over a large part of ants He also travelled over a large pure of the purpose and Asia. As a writer he made his name with his books on Russia notably A Lagabond in the Caucasus and Changing Russia. Having been also in America and Africa, Graham joined the Scots Guards, and served in France in 1917 18 recounting his control of the Purpose of the Chards. the war he returned to his wandering life, and as a result wrote, among other books,

Children of the Slaves, Russia in Division, The been erected, chiefly at the ports. In 1932 Gentle Art of Tramping, The Death of Yesterday the world's grain crop was estimated at (1930), and Boris Godunof (1933)

politician William British Graham William British pointers in the was for a time in the civil service. In 1913 he was elected to the city Council of Edinburgh and, having become a figure in the Labour movement, he entered the House of Commons as MP for Control Edinburgh in 1918 He was Financial Secretary to the Treasury in 1924, and from 1929 to 1931 was Prosident of the Board of Trade In Aug 1931, he resigned office and was chosen deputy leader of the Labour Party in Parliament, but lost his seat at the general election in Oot His writings 1932

Grahame-White Clauds British are and aeronautical engineer Born Aug 21, 1879, he was educated at Bedford Grammar School Starting in business as a motor engineer, he soon turned to aviation, becoming the first Englishman to be granted an aviation certificate. In 1909 he started an aviation school in Paris, and the next year won the Gordon Bennett Cup He established the Grahame-White Aviation Company which owned Hendon Aerodrome, and during the Great War built aeroplanes for the government He wrote The Story of the Acroplane, 1911, and other works on the same subject

Graham's Land British Island Antaro Antarctic Ocean It lies S of Tierra del Fuego and N of Alexander I Land, and is a dependency of the Falkland Islands It was discovered in 1832, but not until 1928 was it found to be an island On it the Argentine Government has built a meteorological station

Grahamstown City of the Province, S In the E of the Province, it is the capital of the Albany district, and is 40 m from the sea at Port Alfred Grahamstown possesses Rhodes University College and S Androv's College,

Oniversity College and S Androw's College, one of the leading public schools in the country There is a trade in wool and other produce Eur pop (1931), 7592

Grail Word for a vessel or a cup The Jesus Christ drank at the Last Supper Many legends have grown in sevend it. Jesus Christ drank at the Last Supper Many legends have grown up around it One is that Joseph of Arimathea used it to collect the blood from the wounds of Christ, and later carried it to England Romances were written about the Grail, notable ones being by Chrétien de Troves and Robert de Borron The Grail figures largely in the Arthurian legends In Malory's Morte d'Arthur a sight of the Grail is the reward of the sinless knight. of the Grail is the reward of the sinless knight, and the knights go off in pursuit of it. son follows out the idea, and for a moment Galabad sees the Grail It also figures largely in Wagner's Parsifal

Grain Unit of weight It is supposed to be the weight of a grain of corn as it comes from the middle of a ripe ear 7000 grains make a lb avoirdupois, 5760 grains make a lb Troy and 24 grains make a pennyweight.

Grain Coreals grown for food. There are five principal grains, wheat, maize, barley, oats and rye The dealers in them are barley, oats and rye known as the grain market, its centre being Chicago, but much grain is dealt with in Liverpool. To store it immense clevators have

Graining Art of producing a grain, pattern or fibrous surface upon a material In painting it refers to the imitation of the natural grain and colour of sone wood upon another In leather work the term is applied to the treatment of skins to imitate morocco and other leathers, in paper making to the embossing of papers to resemble leather and in bookbinding to the production of a pattern on calf bindings.

Science of the right use of Grammar of the Labour Party in Parliament, but lost his seat at the general election in Oot His writings include The Wages of Labour He died Jan. 8, mar, which teaches the right use of words in relation to one another

In England, schools for boys, set up at the time of the revival of learning, especially during the time of Edward VI, were called grammar schools, because Latin grammar was taught therein Many of Grammar School and Bo School, still retain this name Many of them eg, Leeds and Bedford Grammar

Gramont Philibert de French courtier Born in 1621, he joined the army and served with distinction in Flanders and Spain For an intrigue with a mistress of Louis XIV he was exiled to England, 1662-64, where he attended the court of Charles II, and where he married Elizabeth Hamilton. He several times revisited England on diplomatic missions, and died in Paris, Jan 10, 1707. 1707 In 1713, what purported to be his dictated Memoirs were published Really written by his brother-in-law, Anthony Hamilton, they give a lively and vivid picture of the time

Metric unit of weight It is Gramme Aletric unit of weight it is equivalent to approximately 15 432 grains and is equal in weight to one thousandth of a litre of distilled water See METRIC SYSTEM.

Machine for recording Gramophone sound Ιt structed on the same principle as the phonograph invented by T A Edison in 1876, but has a recording disk instead of a cylinder, the sound record being cut in the form of a spiral groove on the disk. The record is mounted on a spindle which is rotated by means of a clockwork mechanism wound by hand or by an electric motor, the movement being controlled by a governor The repro-ducer holding the sensitive diaphragm and needle is attached to a movable tubular arm which readily swings round to follow the course of the needle upon the record. In recent models the old sound box, tone arm and horn have been replaced by an electromagnetic system of reproduction, with valve amplification as in wireless

The manufacture of gramophones and records is a large industry, the word "gramophone' itself being a protected trade name

Grampians Mountain range of Scotland. It stretches across the country from Aberdeenshire to Dumbartonshire and Argyllshire, and forms a natural boundary between the N and the S The highest point is Ben Nevis, but there are others over 4000 ft high and many over 3000 ft. Among these are Ben Macdhui, Ben Cruachan, Ben Lawers, Ben Lomond, Cairngorm, Cairntoul and Ben Alder From the rivers flow to the north and south. From the range, many

A mountain range in Victoria, Australia, is called the Grampians It lies in the west of the state, and has Mount William as its highest point.

Grampus Cetacean of the dolphin family (orca gladiator) Ranging from Greenland to the Antarctic, it sometimes attains a longth of 21 ft, is black above and white boneath, with rounded flippers and formidable teeth Flerce and voracious it is called the killer It swallows live porpoises, seals and small dolphins, and packs of them hunt fully grown whales

City of Spain Granada City of Spain The capital of the same name, it is 63 m from Malaga and is famous The capital of hamber (q v) The chief buildings are the cathedral with a chapel in which Ferdinand and Isabella are burled, the university build ings and some picturesque remains of Moorish days, including parts of the city walls. The siderable trade Its golden age was for some centuries before 1492, when it was the capital of the Moorish kingdom of the same name for (1931) 118 905

A city of Nicaragua is called Granada It stands on the Nicaragua, 28 m from Managua,

19 066

Granada Moorish kingdom in Spain It grew up around the city of Granada, and having been part of the district ruled by the callphs of Cordova became independent about 1238 It remained with its own rulers for about 200 years. The land was conquired by the Spanlards and in 1492 the last king of Granada Boabdil, gave up his throne and went into exile. The kingdom was in the extreme south of the country, the district now called Andalusia It included Inlaga as well as Granada

Granby Marquess of Title borne by the eldest son of the Duke of Ituland The most famous holder was lohn Manners, the eldest son of the 3rd duke Born Aug 2, 1721 he was educated at Eton and Cambridge and assisted in the suppression of the Jacobite rebellion in 1745 In command of the British forces in German; during the even Years War 1759, he did brilliant work in several battles including Warburg in 1760 In 1766 he became Commander in Chief of the British Army He had a seat in parliament from 1741 until his death, Oct 18, 1770

Grand Sarah Sarah English novelist whose real name was Frances Hizabeth M'Fall A daughter of a naval officer, Edv ard Clarke she married at the ago of 16 an army surgeon named M hall who became a colonel in the RA MC Her first novel was Ideala but the most famous was The Heavenly Tucins, 1893, which made somewhat of a sensation in its day. Later she wrote The Beth Book. The B unned I velony, Adam's Orchard and lanety Madalue Grand took some part in the morement for women's rights, and in the municipal affairs of Bath of which city she vas mayore s, 1923 and 1925 29

Grand Alliance War of the Known of the League of Augsburg It was the third of the wars waged by Louis AIV against Spain the Impire Great Britain and Holland In 1688 Louis sent his troops into Germany more as a ciplomade threat than for war and they i lindered the country round Aug-burg. The

League of Augsburg took up the challenge and, converted into the "Grand Alliance" by the addition of new members in 1689, waged war against Louis

The war was fought on the Rhine, Low Countries, in Ireland and on the sea The outstanding personalities were Luxemburg, William of Orange, Vauhan and Catinat The chlef occurrences were the Siege of Limerick (1690), Fleurus (1690), Staffarda in Piedmont (1690) and the Siege of Namur (1692), and in 1693 were Neevandon and Marsaglia At sea the Battle of La Hogue was won by Admiral Rooke in 1691

Grand Bank Part of the N Atlantic Ocean It lies off New foundland and covers about 500,000 sq m The bank is really a ridge or elevation of the ocean bed, its greatest depth being only 160 fathoms It is noted for the cod which abound here

Grand Canal Name given to several canals The most not able is the one which forms the chief highway of Venice of Venice It runs right through the city with palaces on its banks. Another Grand Canal is in China. This goes from Hangchow Canal is in China This goes from Hangchow to Tientsin a distance of 850 m The Yangtse-Klang divides it into two parts, the section between the Yangtse Klang and the Yellow River was cut, perhaps as early as 600 BC The last part dates from about 1280

The Grand Canal of the Irish Free State goes from Dublin to Ballanasloe It is 80 m long and has branches which add another 65 m

to its length

Grand Canyon See Canyon, Colo

Grand Duke European title It first appeared in 1567 when Plus V made the Duke of Tuscany a grand duke This title was kept by his successors until 1859 In 1815 several of the German rulers were given this title, and from that time until 1918 it was borne by the rulers of Hesse, Baden Oldenburg and Mecklenburg It was also the title borne by members of the imperial family of Russia To-day the only bearer of the title is the ruler of Luxemburg, who is the grand duchess

Grand Falls Town of Newfoundland It stands on the Exploits River, about 20 m from its mouth A rallway connects it with Botwood, its port It takes its name from falls in the river, which provide power for the large paper mills to which the town owes its existence

Another Grand Falls is in Labrador is a naterfall one of the finest in the norld, on the Hamilton or Grand River, over 300 ft high

A third Grand Falls is on the St John river in New Brunswick Hero 200 m from St John is a small town called Grand Falls or Colubrooke Pop (1931) 1556

Grand Fleet Name given to Great Britain's main payal force in the World War. It consisted of about 400 ships there being several squadrons of destroyers and submarines It was based at Scapa Flow, Intergordon and Rosyth and made periodical sweets through the North Sea It fought only one action, Jutland but its presence on the was had a great influ ence on the course of the war It was commanded at first by Sir John (later Farl)

Grand Jury Superior kind of jury between 12 and 23, and its duties are, at the opening of the assizes, to see if there is adequate reason for sending the cases for trial Except for the indictment of certain specified offences, before Grand Juries of London and Middlesex grand juries were abolished in 1933

Grand National English steepleplace in March or April at Aintree, near Liverpool, and is one of the sporting events of the year The course is about 41 m long and there are something like 30 jumps The race has been run regularly, except during 1916-18, since 1839

Grand Pré It is 46 m from Hallifax and is associated with the expulsion of the Acadians by the British in 1755 This is the subject of Longfellow's poem Evangeline.

Grand Prix International horse race, run in summer at Longchamps, France The course is 1 mile, 7 fur-longs in length, and the stakes are 250,000 francs, the largest in Europe This race was francs, the largest in Europe This race was won three years in succession by English owners, from 1919-21, and again in 1928 by Lord Derby's horse, "Cri de Guerre"

Grand Rapids City of Michigan the Grand River, and is an important rallway centre There are some manufactures and a trade in fruit and grain Pop 168,592

Grand Union Canal Canal system England It was formed in 1928 when the Grand Junction Canal was united with the Regent and other canals In 1931 the Leicester and Loughborough navigation and the Erowash Canal were acquired The system thus provides water communication between the Thames and the Trent, and includes nearly all the canals between these two rivers

Grange-over-Sands Watering wand urban district of Lancashire It is situated on Morecambe Bay, 2451 m from London by the L M S Rly Pop (1931) 2648

Grangemouth

Burgh and scaport of Stirlingshire It stands on the S side of the Firth of Forth, at the terminus of the Forth and Clyde Canal, and is served by both the LMS and LNE Rivs There are large docks, and its trade is chiefly in coal, iron ore and oil Pop (1931) 11 798

Granger James Engl English writer in 1723, he studied at Christ Church, Oxford, and became Vicar of Shiplake in Oxford-shire His best work is The Biographical History of England, from Egbert the Great to the Revolution, 1769 This was lavishly illustrated with portraits that he had collected from other sources, hence the term grangerising He died April 4, 1776 Born in Dorset

Granite Igneous rock of a crystalline and granular character It is composed typically of quartz, felspar and mica, the latter mineral being in some granites replaced by hornblende Minute quantities of other minerals such as zircon, apatite and rutile are usually present. Granatus granites were greatly in the statement of th Minute ites vary greath in texture and colour, and

Jellicoe, and after Nov, 1916, by Sir David are used largely as building stones and for (later Earl) Beattle.

Grand Tury Superior kind of jury generally near the centres of mountain ranges, and occur in Cornwall, Devon, Wales and Aberdeenshire

Grant james Scottish novelist Born in Edinburgh, Aug 1, 1822, he served as ensign in the army, 1840 to 1843, when he resigned and entered an architect's office He soon, however, devoted himself to filterary work, producing his first novel, The Romance of War, in 1845 Adventures of an Ande-de-Camp, The Yellow Frigate, and Playing with Fire were others among his 56 novels. He also wrote historical works including He also wrote historical works, including Old and New Edinburgh and Scottish Soldiers of Fortune. He died in London, May 5, 1887

Ulyases Simpson Grant Ulysses Simpson American soldier Born in Ohlo, April 27, 1822, the son of a farmer, he was educated for the army at West Point He served in the war against Mexico, 1845-48, but left the army in 1854 and became a farmer the outbook of the Civil War. American soldier He rejoined on the outbreak of the Civil War, and soon came to the front. Given a com-mand, he took Fort Henry and Fort Donelson, Given a comand in 1862 fought the Battle of Shiloh the head of an army he took Vicksburg, after a long resistance won the Battle of Chattanooga and gained other victories. In 1864 he was appointed Commander-in-Chief, and the duel between him and Lee was the con-cluding stage of the struggle Helped by superior resources, Grant was able to wear down his opponent and in April 1865 Lee surrendered

In 1868 Grant, as a republican, was elected president, and in 1872 he was again chosen His terms of office saw the settlement of the Alabama dispute with Great Britain He retired from public life in 1876 but lived until In 1884 he lost his money July 23, 1885 through a banking failure, so earned something by writing his Personal Memours Grant's tomb, overlooking the Hudson, is a prominent New York landmark

Grantchester Village of Cambridgethe Cam, once called the Granta, 21 m from Cambridge Before its old mill was burned down in 1928, it was a very picturesque place. It owes some of its formula in the cambridge it owes some of its formula in the cambridge. Brooke's references to it

Grantham Borough and market town of Lincolnshire It stands on the Witham, 25 m from Lincoln and 105 from London It is a junction on the LNE Rly, and is connected by canal with Nottingand elsewhere The chief building is S Wulfram's Church, a large edifice with a fine spire The Angel Inn was once the property of the Knights Templars There is a market cross in the market place The principal industries are engineering works and the making of agricultural implements Grantham has associations with Sir Isaac Newton Pop (1931) 19,709

Grant Land District in the Arctic Circle It belongs to Great Britain and forms the N part of Ellesmere Island It was discovered in 1875

Granton Senport of Midlothian It is Granton part of the city of Edinburgh, and is situated on the Firth of Forth. There is trade in coal, timber and grain The h bour is used by the North Sea fishing fleet.

Grantown Market town of Moray, or Elginshire. It is on the

Spov. 23 m from Forres, on the LMS Rly It is the chief town of the district called Strath spey, and owing to its beautiful scenory is a holiday and health resort. Near is Castle Grant, the scat of the Countess of Seafield

Granville-Barker Harley English dramatist Born in London, Nov 25, 1877 he took up the profession of actor, but turned to writing plays his first The Marrying of Anna Leele, being produced in 1901 This was followed by The Power Leaders 1966 followed by The Voyscy Inheritance, 1905 Waste, 1907 and The Madras House, 1910, Wasle, 1907 and The Maaras House, 1919, etc. He has also written plays in collaboration with other authors, eg, Laurence Housman Bert Thomas and Dion Clayton Calthrop His non dramatic works include A National Theatre (with William Archor), 1907, and The Red Cross in France, 1916 For a time in 1907 he was a successful manager of the Savoy Theatre with J E Vedronne, with in 1907 he was a succession managed to Savoy Theatre with J E Vedrenne, with whom he had earlier in 1904, managed the Court Theatre His wife Helen, was the author of Come Julia (1931), and, in collaboration with her husband, wrote several plays and trans lated plays from the Spanish

## Granville Earl See Carteret, John

Granville Earl English title borne since 1833 by the family of Leveson Gower The 1st earl was Lord Gran-Loveson Gower (1773 1846) a son of the Marquess of Stafford He was ambassador in St Petersburg and Paris The title is still held by his descendants The family seat is

in St. Petersburg and Paris. The title is still held by his descendants. The family seat is Stone Hall, Stafford.

The 2nd earl, Granville George Leveson-Gower, was born May 11, 1815 and was educated at Eton and Christ Church Oxford. He entered the House of Commons in 1836, and in 1846 succeeded to the carldom. For the very 35 years, he was a leader of the Liberal the part 35 years he was a leader of the Liberal and in 1846 succeeded to the caridom. For the next 35 years he was a leader of the Liberal party, which he led in the House of Lords from 1855 until his death. In 1851 he was Foreign Minister and in 1853 Lord President of the Council. He was again Lord President 1855 & 8 and 1859 66. Under Gladstone he was Colonial Secretary 1868-70. Foreign Secretary, 1856. Granville died March 31, 1861. 1891

Grape Fruit of various shrubs of the Grape Fruit of various shrubs of the Grape vine family The grape vine (relie renders) indigenous to the Mediterranean region has been cultivated throughout historic times for its clustered, edible berries historic times for its clustered, edible berries There are 1500 varieties most of them grown for whoe making Some are seedless, e g sultanns. They are raised under glass in Britain and in the open in Europe especially France, Italy Africa Australia, Canada Argentina and the United States. Several native N American vines are cultivated e.g. I labrusea some have been introduced into France. See VINI WINF.

Grape Fruit Fruit of an evergreen also called the shaddock. It has eval leaves and white flowers and bears fruit like a large.

and white flowers and bears fruit like a large sellow orange. It is cultivated in California and parts of Asia and has become very popular on the dinner table, where its slightly acid Graph formulae and statements in science and commerce. In mathematics the use of graphs is of value in solving problems, in commercing and statistics the graphical method. and commerce

has long been employed During recent years graphs have been introduced for expressing related facts in commerce such as the rise and fall of sales or of exports. The ordinary weather chart showing the variations in atmospheric pressure is a form of graph The ordinary

Graphite Form of carbon It occurs as to the touch with a metallic lustre, and it usually contains iron oxide and other impurities Known also as plumbago or blacklead it is used as a lubricant, for stove polish and for making pencils and crucibles Graphito occurs in veins or cavities in schistose slaty and igneous rocks in Cumberland, Ceylon, Madagascar and Canada Synthetic graphite from coal or coke is now in use for the lub rication of machinery

Grapnel Small anchor It has four or flukes and is used to hold small boats or vessels. It is also called

a grappling iron

Grapple Plant Flowering herb of the Pedalineae It grows in South Africa and bears purple flowers The fruit has on it strong hooks which cling to the skin of animals, thus giving the plant its name Great pain is caused if the fruit gots entangled in the mouth of the animal

Grasmere Lake and urban district of Westmorland The lake, which is about a mile long, is situated amid beautiful scenery in the middle of the Lake District Grasmere stands on the Rothay where it enters the lake and is 4 m from Ambleside and 12 from Keswick. It is reached by road from either The chief building is by road from either The chief building is S Oswald's Church, with the temb of Words-worth in the churchyard Dove Cottage, where he lived is near A rush gathering festival is held here every summer, and the sports in August attract many visitors Pop (1931) 988

Grass In its widest sense all plants belonging to the natural order grammeac. It thus includes wheat and other coreals More usually, however, it is confined to the herbage that grows in fields and on open spaces and farmers distinguish between open spaces and armors distinguish between grassland which is used for pasture, and arable which is sown with wheat and other crops. They also distinguish between permanent and temporary grassland the latter is sown with grass seed and after a year or so when hay has been preduced the latter before the been produced, is ploughed up again For this purpose the kinds of grass which grow quickly are sown Nurserrmen supply a special seed for garden and other lawns for they require a much finer grass than the ordinary field variety

In Great Britain in 1932 about 17 448,000 acres were under grass, apart from what are called rough grazings on hillsides (15,761 000) Of this some 6,645 000 acres were sown with

grass for hay malling

Grasshopper Straight-winged insects whose hindmost legs are adapted for leaping. In the long horned or green grass hopper the chirp of the male is made by friction of the wings. In the green or brown short-Name of various of the wings. In the green or brown short-horned family which includes the locust, the chirp is produced by rubbing the hind less against the wings. See Cricket Locust

Grass of Parnassus Genus of perennial herbs of the saxifrage order The British epecies (Parnassia palustris) is distributed all 575

over Europe, Asia and North America soveral solitary white flowers contain a circlet of scales fringed with a comb of vellow. knotted bairs

Snake of Grass Snake kind, venomous found in Europe and occasionally in Great Britain, especially in the south In colour it is olive-brown grevish brown beneath, with light and then dark neckbands, hence it is sometimes called the ring snake. It averages sometimes called the ring snake. It averages 3 or 4 ft. in length and lives on frogs and fish

Gratian Roman emperor A son of Valentinian I, he was born in A.D 359 and in 367 was given a share of the imperial authority In 375, on his father's death, he and his infant brother, Valentinian II, became joint rulers of the Western Empire During this reign the Goths were very dan-gerous, winning their great victory at Adrian-ople in 378 In 383 Gratian was defeated in battle by a rival, Maximus, after which he was killed by his own soldiers

Another Gratian, Francis Gratian, was a mediaeval priest He lived between about 1090 and 1150, and was, for the most of that time, a Benedictine monk He collected the canons of the church into a work called Decretum Gratiani and is therefore regarded

as the founder of canon law

rattan Henry Irish statesman and orator Born in Dublin, July 1746, he was educated at Trinity College, Grattan Henry orator Dublin, and became a barrister In 1775 he entered the Irish House of Commons as M P for Charlemont and soon came to the front as an orator He had much to do with securing legislative independence for Ireland in 1782 and urged the cause of Ireland in other directions. In 1805 he was elected M.P. for Malton and sat in the English Parliament until his death in London, June 6, 1820 He was buried in Westminster Abbey

Grave Place of burial In England most persons are buried in cemeteries, where a piece of ground is bought for the purpose Some, however, are buried in churchyards, where a parishioner has a right to be buried if the churchyard is still open Many graves dating from prehistoric times have been found and examined, and from them much valuable information has been obtained about the manners and customs of early man

To look after the graves of the soldiers who fell in the Great War a commission has been set up This has offices at \$2 Baker St., London, W 1, and is responsible for about 600,000 graves in France Mesopotamia, Mesopotamia, Gallipoli and other theatres of war These are in 1600 cemeteries and, as far as possible, a record is kept of each man buried there The

graves have uniform headstones

Gravel Deposits of small rock frag-ments. They occur in river valleys, or on the seashore, usually mixed with more or less sand or clay. The pebbles vary river very much in size, angularity and composition When composed of small angular fragments, a gravel is termed a grit, and this may pass into a coarse, sharp sand. Gravels are worked in the Thames and Trent valleys and at Doncaster, for making concrete aggregates, paving and rough-casting walls

Gravelines Scaport of France As, about 1 m. from its mouth, and is 15 m from Dunkirk and 13 from Calais There is a

Its | large barbour from which timber and coal are shipped Pop 2000

Just outside Gravelines a battle was fought between the English and Spanish on the one side, and the French on the other, on July 13 1555, in which the French were routed

Village of France It is in Gravelotte Lorraine, about from Metz, and famous because of the battle from Metz, and tamous because of the outside fought here between the French and the Germans, Aug 6, 1870 The Germans, 150,000 strong, attacked a French army of 100,000 men under Bazaine, and, after some hard fighting, forced them to take refuge in the fortress of Metz The Germans had over 20,000 men killed and wounded The French left cheut 12,000 lost about 13,000

Alfred Perceval Insh poet. Born in Dublin, July 22, 1846, Graves son of Charles Graves, Bishop of Limerick, he son of Charles Graves, Bishop of Linderics, de was educated at Trinity College, Dublin. In 1869 he entered the civil service and was an inspector of schools from 1875 to 1910 He helped to found the Irish Literary Society, of which he was twice president, and did much to promote the revival of interest in folk songs and music His many works include Songs of Old Ireland, Irish Sorgs and Ballads, Songs of Old Iredaid, Irish Sorys and Balads, Sorys of Irish Wil and Humour, Songs of Erin, Welsh Poetry Old and New and To Return to all That an autobiography He wrote the popular song "Father O'Flynn" He died Dec. 26, 1931, two days after completing the MS of a book for children on The Lives of British and Irish Saints

Graves had four sons who were known as riters Philip Perceyal Graves became a writers member of the staff of The Times, which he represented at Constantinople Robert Ranke Graves served in the Great War and became Professor of English in Cairo in 1926 He wrote several volumes of poems and an autobiography, Good-bye to All That, 1929 Charles Graves became a journalist and published The Argentine and the Greek John Graves published

The Boys' Bool of Football in 1931.
Charles Larcom Graves, a brother of Alfred Graves, was assistant editor of The Speciator, 1899-1917. In 1902 he joined the staff of 1899-1917. In 1902 he joined the staff of Punch, for which he wrote a great deal, including Punch's History of Modern England He also wrote Wisdori While Fou Wait, Hustled History and other books with E V. Lucas, as well as the Life of Sir Hubert Parry and New Times and Old Rhymes

Gravesend River port, market town and urban district of Kent. It stands on the south side of the Thames, 24 m from London and is reached by the Southern Rly A ferry connects it with Tilbury, north of the river Shipping is the principal industry and the port is an important pilot centre Here are paper mills and printing Gravesend is also a vachting centre works Pop (1931) 35,490.

Law relating to the at-Gravitation material bodies It was defined by Newton in the statement that every body attracts or tends to approach every other body with a force proportional to the masses and inversely as the square of the distance. This applies equally to the planets as to the smallest particle of matter As an outcome of gravitation we have weight as a property of matter, giving the tendency of a body to fall towards the earth Gravitation also accounts for the orbital move-

ments of the planets round the sun and the movements of satellites round the planets

Gray Thomas English poet. Born in Dec 26 1716, he was educated at Lton and Cambridge meeting at Fton Horace Walpole with whom he toured the Continent 1739 41 On his return he settled in Cambridge becoming in 1768

Professor of Modern History His output of Professor of Modern History His output of the continent Round Round and probably containing graphypark the Continent 1739 41 On his return he cettled in Cambridge becoming in 1768 Professor of Modern History His output of neetry was small, but of a very high standard and marked with a depth of feeling uncommon and marked with a depth of teeling uncommond in his age. His first poem Ode to Spring appeared in 1742 in 1750 came his most famous Elegy Written in a Country Church yard He also wrote Progress of Poesy The Bard, The Fatal Sisters and The Descent of Bard, The Fatal Sisters and The Descensor, Odin In 1757 he was offered, and refused, the laurenteship He died July 30, 1771 He was buried at Stoke Poges

Grayling Genus of freshwater fishes (Thymallus) of the salmon family. It is a small mouthed large scaled fish and its enlarged dorsal in has from 20 to 21 rays. The beautifully iridescent T vulgaris which frequents clear English streams has been introduced into Scotland. It rarely attains 4 lbs in weight and spawns in spring time March to June is the close season

Grays Urban district of Essex, in full I ondon and stands on the Thames Bricks and cement are made here Pop (1931) 18,172

Gray's Inn One of the four inns of buildings are in the angle formed by Holborn and Orny's Inn Road The finest of these are the hall, erected in the time of Elizabeth and the chapel The library has a valuable col lection of books and manuscripts and consists of the old library and a new one opened in 1929 Behind the two squares are gardens covering 30 acres which were laid out by Francis Bacon. The name comes from the fact that the land belonged to Lord Gray de Wilton, who had a house here—In 1733 the Honourable Society of Gray's Inn acquired it and it has since been closely associated with the practice of the law The sign of the inn is a griffin

Graz City of Austria It stands on the River Mur 90 m from Vienna and is the chief town of the district of Styria There is a university and overlooking the city is the citadel it is a manufacturing centre and has a broadcasting station (252 1 M, 7 kW) Pop 152 700

Great Barrier Reef Coral treef const of Australia It is 1200 m long and covers 100 000 sq m, and it serves to protect the coast of Queensland Between the reef and the mainland is a channel in some places to m wide, in which are numerous islands There are a number of sea passages through the recf which was crossed by Captain Cook

Great Bear Lake and river of Canada Both are in the North West Territories within the Arctic Circle The lake has a length of 176 m and covers 11 200 sq m The river flows from the lake to the Mackenzie River about 100 m away The Great Bear is also a constellation in the

hound and probably containing greyhound blood it is the largest European mastiff, and stands about 30 in high weighing from 120 to 170 lb Gracefully built it carries the head high and is crop cared, long tailed and sleek coated in colour it is bluish grey black or black and yellow Formerly used in deer black and yellow Formerly used in deer hunting it has developed in Britain since 1870 as companion and show dog It is amenable to discipline when trained to indoor manners. but should never be chained

Great Eastern Name of a British She was She was built in 1856 Isambard Brunel being her designer and was called the Loviathan Sho was 692 ft long and her tonnage was 18 000, making her the largest vessel in the world She was built on the Thames at Millwall but was not a success, and after a time she was used for laying the Atlantic and other cables

Great Fire London conflagration in a bakery in Pudding Lane in four days it devastated 400 streets and lanes, 13,200 houses, S Paul's Cathedral, 89 parish churches, the Guildhall and other public buildings, gaois, markets and 52 halls The area affected comprised 373 acres within and 63 acres without the walls from the Tower to the Terrale without the walls from the Tower to the Temple The loss of property was put at 200,000 people were made Church €10 730 500 homeless, but casualties were very few

Great Fish Canadian river Rising In Lake Sussex, north of Lake Aylmer it flows N E for 560 m into the Arctle Ocean at Elliot Bay Rapids and rocks

Arctio Ocean at Elliot Bay Rapids and rocks Impede navigation Sir George Back, whose name it sometimes bears, discovered and explored it in 1834 Franklin's expedition perished near its mouth in 1848

Another Great Fish is a river of Cape Province S Africa It rises in the Sneeuw bergen Vits, and after a course of 230 m reaches the Indian Ocean Great Fish Bay is an inlet of the Atlantic in the SW of Portugese E Africa

Great Gable Mountain of Cumber 7 m Scafell It is about 7 m Scafell It is 2050 ft high and its ascent is a favourite climb Green Gable a hill near, is 2500 ft high There is a memorial on the summit from which one of the finest views in the country is obtained

Great Harry English warship vill in or about 1514 and named after him Hertonnage was 1000 and she had two decks with guns on each A painting of the vessel by Holbein still exists

Great Lakes Name given to the five between Canada and the United States They Northern Hemisphere It is also known as the lough or more correctly, Ursa Major Ontario and cover over 94 600 sq m. The Great Britain Name in general use International boundary runs through four of the Island that the Michigan being wholly American The thus the larger part of the United Kingdom and he more of course when the contains Figure 1 is the larger part of the United Kingdom and he more of course when the contains the contains and the United States They are suffered and Ontario and the United States They are suffered and Ontario and the United States They are suffered and Ontario and cover over 94 600 sq m. The contains Fingland Wales and Scotland It is thus the larger part of the United Kingdom and, by means of canals, vessels can go from

the head of Lake Superior to the St Lawrence and Montreal, or to New York by way of Buffalo The Sault Ste Marie Canals connect Superior with Huron From Huron to Erie Lake St. Clair and the Detroit River are utilised, between Erie and Ontario the Welland Canal (or) has been cut in order to avoid Canal (qt) has been cut in order to avoid the obstacles at Niagara Since the Great War a new Welland canal has been constructed The St Lawrence carries the waters of the lakes to the ocean

Great Plague Epidemic of bubonic London in 1665 Many periodical visitations occurred after Saxon times—including the Black Death Cases occurred in the winter of 1664-5 and the total number of deaths for 1665 reached 68,596, two thirds of the population of 460,000 having fled from the city. The Great Fire of 1666 (q r) helped to purify London

Great Powers Term used for the leading countries of the world It came into use soon after the Peace of 1815, when the affairs of Europe were settled by conferences between the leading powers At this time they were Great Britain, France, Austria and Russia After 1871 Germany became a great power and soon Italy joined the circle These were all European powers, but with the growth of world politics, Japan and the United States became recognised as Great Powers The World War destroyed the position of the three empires, Germany, Russia and Austria The peace of 1919 was arranged by five great powers, Great Britain, France, Italy, the United States and Japan

Great Rebellion Name given to the civil war between the Royalists, under Charles I and between the royalists, under charles I and the Parliament. It began in 1642 and ended with the execution of the king in Jan, 1649 It is usually divided into two parts, one ending with the King's defeat at Naseby in 1645, the other being the renewal of the struggle with the aid of the Scots in 1648

Great Salt Lake Shallow lake Utah, U.S.A. Three rivers enter it, but there is no outlet, hence salts have accumulated, principally sodium chloride, less sodium sulphate and carbonate, reaching at times over 20 per cent. Salts are deposited on the shores. The area is 1500 sq m and depth about 20 feet

Great Schism Name given to the period from 1378 to 1417, when there were two or more popes It ended in 1417, when the Council of Constance elected Martin V, who was generally recognised

Great Seal Sign of the sovereign used to signify his approval In Great Britain it is kept by the Lord Chancellor, and is affixed by him to documents of the Anny College and the College and t state A new seal was made in 1930, owing to the altered status of Ireland Until 1707 there was a separate great seal for Scotland

Great Slave Lake and river of Canada The lake is in the North-West Territories, covers 10,700 sq m., is 300 m long, and is frozen over for about half the year. The Mackenzie River flows from the

lake into the Arctic Ocean.

Grebe Family of diving birds (Podicops)
They are found in temperate

and has a coloured ruff in the breeding season, and the little grebe or dabohick, which may be 10 in long The red-necked, horned and black-necked grebes visit Great

Britain for breeding See Dabchick.

Greece Monarchy of Europe It is at
the southern end of the Balkan Peninsula and consists of a mainland area and a great number of islands Its land boundaries are Albania, Yugoslavia, Bulgaria and Turkey, but it is chiefly remarkable for its enormous coastline, due to the land being deeply indented by the sea, especially on the east side, where is the Aegean Sea The area is 50,257 sq m—about the size of England, this total includes Crete and the islands Scyros, Chios and many others dotted over the Aegean and fringing the coast on the other side, where is the Ionian Sea

The north of the country was ceded by Turkey after the Great War The centre, where are Thessaly and Attica, and the south, which is almost cut off from the rest by the Gulf of Corinth, form the historic Greece The Guif of Cornan, form the mistoric state is mountainous almost everywhere, but in the rallers the soil is very fertile. Wheat, the valleys the soil is very fertile Wheat, barley and maize are grown, as are olives, tobacco and currants plentiful Athens is the Minerals are fairly plentiful Athens is the capital with a popula-tion of 452,919 There are many ports including

the Piraeus, Salonika and Patras From 1924 to 1935 Greece was governed by a president and a ministry responsible to a parliament of two Houses In 1935, however, a plébiscile vote decided in favour of the restoration of the monarchy, and the king, George II, was recalled to Greece The people belong mainly to the Greek Church; There is an army recruited by compulsory service and a small navy The unit of currency is the drachma stabilised at 375 to the £ sterling, but the stabilisation has been suspended since April, 1933 Pop (1931) 6,480,000 HISTORY Greece is famous

Greece is famous as the home of the world's greatest civilisation Many centuries before Christ Mycene was a powerful city with wonderful buildings, and there were doubtless others in the land These were the work of the Minoans, who were succeeded by the Achaeans and then came the Dorians Later still, about 1000 BC, these people were called Hellénes and from Greece their settlements spread to Asia Minor, Italy and Sicily, the islands of the Aegean Sea, and, indeed, almost all round the European and Asiatic coasts of the Mediterranean Sea The Greece of this time is the ranean Sea Greece pictured by Homer

By the 6th century BC, Greece, or Hellas, consisted of a number of city states, each independent. The kings who doubtless ruled in many of these had disappeared. their places were taken by rulers called tyrants and each city had its slave population Wars between them were frequent, but these were on Trade was active, and a very small scale owing to the situation of the cities, most of this was done by sea Among the city states Athens, Sparta, Corinth, Thebes were, or were

soon to be, prominent

Among these people there was a high degree
of intelligence and soon art and literature began to flourish as they had never flourished before From Hellas the world has received Grebe Family of diving birds (Podicops) its greatest works of art in building and soulpture, some of its greatest dramatic and regions and two species are found in temperate ponds in Great Britain These are the great crested grebe, which is nearly 2 ft in length

This civilication reached its greatest develop ment in Athens in the time of Perioles, the 5th century B C, an age which, for intellectual activity, has never been equalled. This was also the time when Greece was engaged in the anso the time when Greece was engaged in this the energial struggle with Porsia in this the Greeks won undying fame for their valour. At Marathon on land and at Salamis on sea, they beat the Persian hosts These victories did not, indeed, save Greece from invasion, but in the end the Persians were utterly defeated

Only with great difficulty and in the presence of great danger had the little city states united together, and the union was never very lasting or very real. The smaller and weaker cities came under the protection of Athens, or another came under the protection of Athens, or another of the more powerful ones, and leagues, such as the Delian League were formed, but lealousies were too strong for a single country to arise Instead, in 431 BC, Athens and Sparta entered upon the great struggle called the Peloponnesian War This was ended in 404 with the defeat of Athens and the loss of her dominant position. Sparta for a short time, and then Thebes, were the most newerful of and then Thebes, were the most powerful of the city states

Macedonia, a kingdom in the north of Greece Macedonia, a kingdom in the north of Greece and hardly regarded as part of Helias propor, passed, in 350, under the rule of a certain Philip He became the most powerful man in Greece and was so when he died, and was succeeded by Alexander the Great He exercised a kind of sovereignty over Greece but interfered very little indeed with the affairs of its little states. The position of Macedonia is the 2nd century B. was aballenced by in the 2nd century B c was challenged by Rome and in 146 B c Greece, its glory gone became part of the great Roman Empire which borrowed greatly from its civilisation Now comparatively unimportant, Greece remained in the Roman Empire, and when this

romained in the Roman Empire, and when this was divided, was included in the Fastern Empire which was Greek and not Latin in speech and customs. In 1204 on the collapse of the Byzantine Empire Greece became part of the Latin kingdom of Romania, but it had

of the Latin kingdom of Romania, but it had been recovered by the emperor at Constantinople by about 1300. In the 15th century it was conquered by the Turks, who dominated it until the 19th century, although from time to time this authority was disputed by Venice. In 1821 the Greeks revolted against Turkish misrule and, aided by Great Britain and France Greece was created an independent lingiom in 1830. In 1833. Otto a prince of Bayaria became its king but he was expelled in 1862. The throne was then offered to a In 1862 The throne was then offered to a Danish prince who, in 1853, became George I, King of Hellenes He was killed in 1913 and his son and successor, Constantine, was dethroned in 1917 Constantine's son Alex ander, then had a short reign which ended in his death and in his father's return. In 1922 Constantine abdicated and in 1923 his son George II was exiled. In 1924 Greece became a republic with Venizelos as its foremost figure In 1935 the monorchy was restored and the ling recalled from exile GREEK LANGUAGE There are two forms

of the Grick language—one is the language which was spoken at Constantinople and throughout much of the Eastern I mpire. It la-t its official status as an imperial tongue in 14'3 but it cont nued to be spoken although of Orecc and the adjacent lands. It differs a great deal from ancient or classical Greck.

masterpieces of Greek literature are written. was a dormant tongue for over 1000 years. At the revival of learning its wonderful treasures were discovered by scholars and since then it has been one of the two classical languages of the universities and schools of Europe In most of these the study has now ceased to be compulsory but it remains part of the education of the scholar

The Greek alphabet consists of the following letters

> A B F A E Z H O I K A M ΝΞΟΠΡΣΤΥΦΧΨΩ

α β γ δ ε ζ η θ ι κ λ μ

νξοπροςτυφχψω

Greek Church Name sometimes used

Orthodox Church During the first centuries
of the Christian era the church, like the Empire, was divided into two brunches, the Eastern and Western The division came about gradually, but by the 9th contury it was complete, as the two churches then differed about a clause in the Nicene Creed The Eastern Church used the Greek language and is therefore known as the Greek Church

This church does not recognise a single head, but is under several patriarchs, the chief but is under soveral patriarchs, the chief authority being the synod, of which each country has its own It allows the clergy to marry and gives communion in both kinds to the laity, while there are other differences in fatth and ritual between it and the Roman Church The Church has about 144 000,000 adherents, but since 1917 its position in Russia, where the majority of its followers are, has been very precarious The Anglican Church maintains friendly relations with the Greek church In Lugland there are Greek churches Church In Lugland there are Greek churches in Bayswater, London, Manchester, Liverpool and Cardiff

Greek Fire Inflammable composition used in mediaeval warfare It was especially employed by the Byzantine Greeks in their wars against the Saraceus. It is supposed to have been composed of resin is supposed to have been composed of resin or pitch sulphur nitre and naphtha, with other inflammable substances and, probably, quick lime. The formula was guarded fealously by the Byzantines and the composition was said to be able to burn under water.

Green Born in Oxford, Dec 12, 1837 he was educated at Magdalen College School and Legus College. Oxford He was ordered and

Jesus College, Oxford He vus ordained and held a living in Stepney for a short time. In 1868 he was appointed librarian at I ambeth Palace but poor health soon compelled his retirement. In spite of this handicap he did a good deal of historical work and "died work ing" at Mentone, March 7, 1883.

Green a work is the attractive and papular.

Green's work is the attractive and popular Shorl History of the English People, of which many editions have appeared He also wrote The Making of England and The Conquest of England, books in much greater detail, and articles in periodicals in 1877 Green married an Irish lady, Alice Sophia Amelia Stophord She also wrote on listorical subjects her books including Henry II and Town Life in the 15th Century Later she wrote a good deal on Irish history and politics. Mrs. Green died in 1929

Green Thomas Hill English philosopher Born at Birkin Yorkshire, April 7 1836, the son of a clergy man he was educated at Rugby and Balliol College, Oxford In 1860 he was chosen a fellow of Balliol and there he served as tutor and lecturer for the next 22 years From 1878 until his death, March 26, 1882, he was also Whyte Professor of Moral

Philosophy

Green taught an idealistic philosophy which he had learned from Aristotle, Kant and Hegel owing to the number of able men who came under his influence and to other causes, his teaching has been remarkably influential, especially in the sphere of politics. It led him to advocate social reforms, such as the causes of temperance, education and housing, and to come forward as a Liberal politician. His chief writings are Lectures on the Principles of Political Obligation and Prolegomena to Ethics Green, as Mr Gray, is a character in Robert Elsmere

Greenaway Kate English artist Born in London, Mar 17, 1846, she studied art at South Kensington, Heatherley's Academy and the Slade School, and in 1868 exhibited a number of water-colour drawings in 1877 she exhibited at the Royal Academy Her illustrations of children dressed in the quaint costumes of the early 19th century became very popular. One of her books, Under the Window, 1879, had a large sale in English, French and German editions She died Nov 6, 1901

Green Cross Society formed in 1930 Its objects are to protect the country-side and prevent litter In 1933 it started a fund for planting trees in Palestine During the Great War the Green Cross Society was the popular name of the Women's Reserve Ambulance

Greene Harry Plunket Irish singer Born in Dublin, June 24, 1865, he was the son of R J Greene, a barrister, and a grandson of the 3rd Lord Plunket He studied law, but the excellent quality of his voice made him abandon it for music Studying in Stuftbart and Flormes he made him All June in Stuttgart and Florence, he made his London debut as a baritone singer in Handel's Messiah, Jan 21, 1888 He excels in oratorio and the interpretation of *Licder*, and maintains that interpretation, diction and dramatic sincerity are more requisite in a singer than vocal excellence He has written a book Interprelation in Song, and was for some years Professor of Singing at the Royal Academy of Music and the Royal College of Music

Greene Robert English poet and drama-tist. Born at Norwich in 1558, he was educated at Cambridge Settling in London, he soon became known as a writer of London, he soon became known as a writer of plays and lyries His principal works are the dramas Orlando Furroso, The Scotlish History of James IV, Friar Bacon and Friar Bungay and Pandosto He also wrote a pamphlet called Greene's Groatsworth of Wil Bought with a Million of Repenlance, in which he speaks slightingly of Shakespeare and other contemporary dramatists. On his own showing he led a wild and dissolute life, and he died in he led a wild and dissolute life, and he died in poverty, Sept 3, 1592

Greenfinch Common British resident song bird (Liquenus chloris) A stoutly-built bird, it is about 6 in long and in colour is yellowish-green and yellow, with black wing and tail tips, the hen is of soberer hue lits untidy, hair-lined nest shelters two broads of from 5 to 6 reddish. chloris) A stoutly-built bird, it is about 6 in long and in colour is yellowish-green and yellow, with black wing and tail tips, the hen is of soberer hue. Its untidy, hair-lined nest shelters two broods of from 5 to 6 reddish-spotted white eggs.

and 20th centuries Mansen and other explorers have examined the interior of the country in June, 1930, some Norwegians hoisted their country's figg at a spot on the east coast of Greenland. The Danish Government raised objections to this and negotiations followed In 1929, 1930 and 1931 several expeditions

Greenfly Popular name for various insects of the aphis or plant louse family Besides green blight, black, grey and brown forms occur Several generations of living young develop asszually, without immediate male agency Some infest one plant species only, others migrate from host one plant species only, others migrate from host to host according to season, thus the hop aphis passes the winter on the damson. The seven British apple aphides include American blight. Five kinds attack currants and gooseberries, others affect roses and geraniums as well as corn and timber trees

Greenford District of Middlesex, part of the borough of Ealing It is 8 m from London with a station on the G.W. Rly Since the Great War, the district has been greatly developed, and various industries have been established here, including works owned by Messrs J Lyons & Co The Grand Union Canal passes through the district.

Greengage Small, round, dessert native of France and large supplies come thence each season. It is named after Sir William Gage, of Hengrave Hall Bury St. Edmunds, who introduced it into Figland about 1725. The honour is also claimed for one of the Gages of Firle in Sussex, and for a Legit Lohn tage. Jesuit, John Gage

Jesuit, John Gage
Greenheart Valuable timber tree
Greenheart (Neclandra rodiaci) of the
laurel order. A native of British Guiana, it
reached 60 or 70 ft in height The close
textured heart wood, greenish-yellow to
greenish-brown in colour, is heavier than teak,
and, as it contains an oil obnoxious to marine
worms, it is extensively used in shipbuilding
Its ash-coloured bark, known as bibiru bark,
is used as a febrifure. is used as a febrifuge

Greenhithe District of Kent It stands on the Thames, 3 m from Dartford, on the Southern Rly industry is shipping

Greenland Island in the Arctic Ocean, one of the largest in the world It covers \$26,000 sq m Its length is 1600 sq m, its extreme breadth 700 m and only its southern part, which terminates in Cape Farewell, is outside the Arctic regions Davis Strait lies between it and Canadian territory The island belongs to Denmark, but nearly all the inhabitants are Eskimos Tho coast is very rugged and the interior mountain-ous with many glaciers. The people live in a few settlements on the S and W coasts, the largest being Sydproven Godhavn, on Disco Island, is the capital. The climate is very cold except for a short period each year, and the only products are whale and seal oil and turs The trade is a state monopoly Cod and other fish are found off the shores and coal

of poor quality has been found Pop 14,400 Greenland was discovered in the 10th century and was settled by Norsemen. Presumably the climate was then more equable than it became later and this would account for the name given to the place. About 1400 the settlements were destroyed or vacated owing to increasing cold. Remains of churches and other buildings have been found. In the 19th and 20th centuries Namsen and other explorers

This civilization reached its greatest develop ment in Athens in the time of Pericles, the 5th century B C , an age which, for intellectual activity, has never been equalled. This was also the time when Greece was engaged in the unequal struggle with Persia In this the Greeks won undying fame for their valour At Marathon on land and at Salamis on sea, they beat the Persian hosts These victories did not, indeed, save Greece from invasion, but in the end the Persians were utterly

defeated Only with great difficulty and in the presence of great danger had the little city states united together, and the union was never very lasting or very real The smaller and weaker cities came under the protection of Athens, or another came under the protection of Athens, or another
of the more powerful ones, and leagues, such
as the Delian League, were formed, but
jealousies were too strong for a single country
to arise Instead, in 431 BC, Athens and
Sparta entered upon the great struggle called
the Peloponnesian War This was ended in
404 with the defeat of Athens and the loss of
her dominant position. Sparta for a short time,
and then Thens were the most nevertil of and then Thebes, were the most powerful of

the city states

Mucedonia a kingdom in the north of Greece Macedonia a lingdom in the north of Greece and hardly regarded as part of Hellas proper, passed, in 350, under the rule of a certain Philip He became the most powerful man in Greece and was so when he died and was succeeded by Alexander the Great. He exercised a kind of sovereignty over Greece but interfered very little indeed with the affairs of its little states. The position of Macedonia is the large of the proposition of Macedonia in the large of the proposition of Macedonia. in the 2nd century nc was challenged by Rome and in 146 nc Greece, its glory gone became part of the great Roman Empire which borrowed greatly from its civilisation Now comparatively unimportant Greece remained in the Roman Empire and when this

remained in the Rolling Empire and when this was divided was included in the Fastern Empire, which was Greek, and not Latin in speech and customs In 1204 on the collapse of the Byzantine Empire Greece became part of the Latin kingdom of Rollanda, but it had

of the Latin kingdom of Romania, but it had been recovered by the emperor at Constantinople by about 1300 In the 15th century it was conquered by the Turks, who dominated it until the 19th century, although from time to time this authority was disputed by Venice In 1821 the Greel's revolted against Turkish misrule and, aided by Great Britain and France Greece was created an independent lingdom in 1830 In 1833 Otto a prince of Bavaria became its king but he was expelled in 1862 The throne was then offered to a in 1862 The throne was then offered to a Danish prince v ho, in 1833, became George I, King of Hellenes He was killed in 1913 and his son and successor. Constantine was dethroned in 1917 Constantine 8 son Alexandre Was a constantine 8 son Alexandre was the constantine 8 dethroned in 1917 Constantine a son Alexander, then had a short reign which ended in his death and in his father's return. In 1922 Constantine abdicated and in 1923 his son George II was exilted. In 1924 Greece became a republic with Venizelos as its foremost figure. in 1935 the monarchy was restored and the king recalled from exile

GREEK LANGUAGE There are two forms of the treek inguage—one is the language which was spoken at Constantinople and throughout much of the Fastern I mpire it lest its official status as an imperial tongue in 145° but it cont nued to be spoken although in an altered form and is to day the language of Greece and the adjacent lands. It differs a great deal from ancient or classical Greek.

Classical Greek the Greek in which the

masterpieces of Greek literature are written was a dormant tongue for over 1000 years At the revival of learning its wonderful treasures were discovered by scholars and since then it has been one of the two classical languages of the universities and schools of Europe In most of these the study has now ceased to be compulsory but it remains part of the education of the scholar

The Greek alphabet consists of the following lotters -

> АВГДЕХНӨІКАМ ΝΞΟΠΡΣΤΥΦΧΨΩ

> α βγδεζηθικλμ

νξοπροςτυφχψω Greek Church Name sometimes used for the Eastern or Orthodox Church During the first centuries of the Christian ora the church, like the Empire, was divided into two branches, the Eastern and Western The division came about gradually, but by the 9th century it was complete, as the two churches then differed about a clause in the Nicene Creed The Eastern Church used the Greek language and list therefore known as the Greek Church. is therefore known as the Greek Church

This church does not recognise a single head but is under several patriarchs, the chief authority being the synod, of which each country has its own It allows the ciercy to country has its own It allows the clergy to marry and gives communion in both kinds to the laity, while there are other differences in fatth and ritual between it and the Roman Church The Church has about 144,000 000 adherents, but since 1917 its position in Russia, where the majority of its followers are, has been very precarious The Anglican Church maintains friendly relations with the Greek Church In England there are Greek churches in Bayswater, Liverpool in Bayswater, London, Manchester, Liverpool and Cardiff

Greek Fire Inflammable composition used in mediaeval warfare It was especially employed by the Byzantine Greeks in their wars against the Saracons. It is supposed to have been composed of resin or pitch, sulphur nitre and naphtha, with other or pitch, sulpiur nure and napatha, with other inflammable substances, and probably, quick lime. The formula was guarded jealously by the Byzantines and the composition was said to be able to burn under water.

Green John Richard English historian was educated at Magdalen College School and Lesus College. Oxford. He was ordelized and

was educated at Magdalen College School and Jesus College, Oxford He was ordained and held a living in Stepney for a short time In 1868 he was appointed librarian at Lambeth Palace but poor health soon compelled his retirement In spite of this handleap he did a good deal of historical work and died work ing "at Mentone, March 7, 1883 Green's work is the attractive and popular Short History of the Laglish People of which many editions have appeared IIe also wrote The Making of Fngland and The Conquest of England, books in much greater detail, and articles in periodicals In 1877 Green married an Irish lady, Alice Sophia Amelia Stopford She also wrote on historical subjects her books including Henry II and Town Life in the 15th Century Later she wrote a good deal on 1180 1929

Green Thomas Hill English philosopher Born at Birkin Yorkshire, April 7 1836 the son of a clergyman he was educated

Green taught an idealistic philosophy which he had learned from Aristotle, Kant and Hegel owing to the number of able men who came under his influence and to other causes, his teaching has been remarkably influential, especially in the sphere of politics. It led him to advocate social reforms, such as the causes of temperature adjustice and the causes. of temperance, education and housing, and to come forward as a Liberal politician. His chief writings are Lectures on the Principles of Political Obligation and Prolegomena to Ethics Green, as Mr Gray, is a character of Political Company. in Robert Elsmere

Greenaway Kaie English artist Born in London, Mar 17, 1846, she studied art at South Kensington, Heather-lev's Academy and the Slade School, and in 1868 exhibited a number of water-colour drawings In 1877 she exhibited at the Royal Academy Her illustrations of children dressed in the quaint costumes of the early 19th century become very normals. One of her 19th century became very popular. One early looks, Under the Window, 1879, had a large sale in English, French and German editions She died Nov 6, 1901

Green Cross Society Society in 1930 Its objects are to protect the country-side and prevent liter in 1933 it started a fund for planting trees in Palestine During the Great War the Green Cross Society was the popular name of the Women's Reserve Ambulance

Greene Harry Plunket Irish singer Born in Dublin, June 24, 1865, he was the son of R. J Greene, a barrister, and a grandson of the 3rd Lord Plunket. He studied law, but the excellent quality of his voice made him abandon it for music Studying in Stuttgart and Florence, he made his London debut as a baritone singer in Handel's Messiah, Jan 21, 1888 He excels in oratorio and the interpretation of *Lieder*, and maintains that interpretation, diction and dramatic sincerity are more requisite in a singer than vocal excellence. He has written a book Interpreexcenence He has wifer some years Professor lation in Song, and was for some years Professor of Singing at the Royal Academy of Music and the Royal College of Music

Greene Robert. English poet and dramatist. Born at Norwich in 1558, he was educated at Cambridge Settling in London, he soon became known as a writer of London, he soon became known as a writer of plays and lyries His principal works are the dramas Orlando Furioso, The Scottish History of James IV, Friar Bacon and Friar Bungay and Pandosto He also wrote a pamphlet called Greene's Groatsworth of Wit Bought with a Million of Repentance, in which he speaks slightingly of Shakespeare and other contemporary dramatists On his own showing he led a wild and dissolute life, and he died in poverty, Sept. 3, 1592

Greenfinch Common British resident song bird (Jigurnus chlorus) A stoutly-built bird, it is about 6 in long and in colour is yellowish-green and yellow, with black wing and tail tips; the hen is of soberer hue Its untidy, hair lined nest shelters two broads of from 5 to 6 reddishspotted white eggs

at Rugby and Balliol College, Oxford In 1860 he was chosen a fellow of Balliol and there he served as tutor and lecturer for the next 22 hycars From 1878 until his death, March 26, 1882, he was also Whyte Professor of Moral Philosophy one plant species only, others migrate from host to host according to season, thus the hop aphis passes the winter on the damson. The seven British apple aphides include American blight Five kinds attack currants and gooseberries, others affect roses and geraniums as well as corn and tumber trees

Greenford District of Middlesex, part of the borough of Ealing It is 8 m from London with a station on the GW Rly Since the Great War, the district has been greatly developed, and various industries have been established here, including works owned by Messrs J Lyons & Co The Grand Union Canal passes through the district.

Greengage Small, round, dessert native of France and large supplies come thence each season. It is named after Sir William Gage, of Hengrave Hall Bury St. Edmunds, who introduced it into England about 1725. The honour is also claimed for one of the Gages of Firle in Sussex, and for a Legit John Cage. Jesuit, John Gage

Greenheart Valuable timber tree laurel order. A native of British Guiana, it reached 60 or 70 ft in height The close textured heart wood, greenish-yellow to greenish-brown in colour, is heavier than teak, and, as it contains an oil obnoxious to marine trees are translationary to the contains an oil obnoxious to marine trees are translating to the contains and t worms, it is extensively used in shipbuilding Its ash-coloured bark, known as bibiru bark, is used as a febrifuge

Greenhithe District of Kent It stands on the Thames, 3 m from Dartford, on the Southern Rly The chief Industry is shipping

Greenland Island in the Arctic Ocean, one of the largest in the world It covers 826,000 sq m Its length is 1600 sq m., its extreme breadth 700 m and only its southern part, which terminates in Cape Farewell, is outside the Arctic regions Davis Strait lies between it and Canadian Davis Strait lies between to and territory The island belongs to Denmark, but territory The inhabitants are Eskimos The coast is very rugged and the interior mountain-ous with many glaciers. The people live in a few settlements on the S and W coasts, the largest being Sydproven Godhavn, on Disco Island, is the capital The climate is very cold except for a short period each year, and the only products are whale and seal oil and furs The trade is a state monopoly Cod and other fish are found off the shores and coal

of poor quality has been found Pop 14,400
Greenland was discovered in the 10th
century and was settled by Norsemen. Presumably the climate was then more equable than it became later and this would account for the name given to the place About 1400 the settlements were destroyed or vacated owing to increasing cold Remains of churches and other buildings have been found. In the 19th and 20th centuries Nansen and other explorers

and 20th centuries Nansen and other explorers have examined the interior of the country. In June, 1930, some Norwegians hoisted their country's flag at a spot on the east coast of Greenland. The Danish Government raised objections to this and negotiations followed In 1929, 1930 and 1931 several expeditions

set out to explore the interior of Greenland one was the British Arctic Air Route expedition under H G Watkins The aim of this Pop (1931) 100,879 was to find if an air route across Greenland to Canada from England was possible A German expedition under Alfred Wegener went out and Wegener lost his life and a relief expedition was sent to search for him Another expedition was organised by some Danes

Greenock Burgh and scaport of Ren frewshire It stands on the south side of the Firth of Clyde, 22 m from Glasgow, and is served by the LMS Rly The old west church, founded in 1580, has been removed to Scaffeld Parade to make room for the partenger of a chilphylldian and make removed to season farmed to make room for the extension of a shipbuilding yard. The church contains some fine glass. Highland Mary is buried in the churchyard. The Watt Institution, which has a fine library, is named after James Watt, who was born here. Green ock's industries include shipbuilding, engineer ing and sugar refining There is also a good ing and sugar refining deal of shipping, for which there are large docks

Greenore Scaport and watering place of Co Louth, Irish Free State It is on the east side of Carlingford Lough and has a regular service of steamers with Holyhead

Green Park London park It lies between Piccadility, St James's Park and Constitution Hill, with Buckingham Palace looking on to ft, and covers 53 acres It is Crown property and has been a park since the 17th century

Greensand In geology, a formation of the Cretaceous system It consists of sand nixed with glauconite, which gives it the greenish colour. It is divided which gives it the greenish colour. It is allided into the Upper and Lower Greensands, between which lies the clay called Gault. It is found in Kent and Sussex in the Isle of Wight and in the west of Fingland. A belt of it stretches across the country from Dorset and Wiltshire to the east coast. There is also greensand in Scotland, Ireland and France. In it are said. Scotland, Ireland and France In it are sand stones that make good building stones, and sand used in glass making

Greenshank Wading bird (Totanus family Allied to the sandpipers it is slenderly family Allied to the sandpipers it is stenderly built and is about 11 in long with long olive tinted less a long neck and slightly uptilted black bill. It internets in summer to Britain and breeds in Scotland. Its primitive ground nest shelters four dark blotched grevish eggs the winter wanderings embrace India, South Africa and Australia.

Greenstone In geology a convenient field name for more or less altered basic igneous rocks which have a dark greenish colour. The colour is due to the formation of chiorite and allied minerals Greenstones occur as dykes and intrusive masses in many parts of Great Britain and comprise such rocks as diabase and diorite

Greenwich Borough of London one of the 28 in the county It lies on the south side of the Thames 6 m from the city and has stations on the Southern ily The Blackwall Tunnel and a tunnel for foot passengers link it with the north side Apart from Greenwich Hospital of the river its chief buildings are 5 Alphere Church the observatory and hospitals Some of the inns, the Ship and the Trafalgar for instance, are noteworthy. The industries include engineering works and the making of cables and lineleum ear the river is an enormous poner station

Greenwich is famous for its associations with royalty Here, Humphrey, Duke of Gloucester, built a castle, and in a palace that succeeded it the Tudor sovereigns passed a good deal of time Henry VIII, Mary and Elizabeth were born here The present buildings facing the river form a fine pile They were begun in 1667 and finished in 1705 when they were opened as a home or hospital for sailers. They comprise several blocks, one of which was designed by Wron The most famous was designed by wron The most famous apartments are the painted hall, which con tains Nelson relies, and the chapel with its fine carrings Other parts are occupied by the Royal Naval College and the Naval Staff College The Royal Hespital School has been removed to new buildings at Holbrook, in Suffolk A house near, formerly owned by Anne of Denmark, is now a Naval Museum Behind the hospital is Greenwich Park, now

public property which covers about 200 acres and is beautifully laid out. In it is the Royal Observatory This was opened in 1676 and bere the Astronomer Royal lives and works Standard time is reckoned from this observatory, which stands on the first meridian hence Greenwich time

Greenwich Village is a district of New York It is frequented by artists literary men and others of Bohemian tastes

Greenwood Arthur English politician He studied at the University of Manchester and became a writer a post in the University of Leeds before 1917 when he was made Scoretary to the Ministry of Reconstruction Having joined the Labour Party, he became head of its information bureau and in 1922 was elected MP for the Nelson and Colne division of Lancashire 1924 he was Parliamentary Secretary to the Ministry of Health and in 1929 Minister of Health in the Labour Government He Health in the Labour Government He resigned in Aug 1931 and lost his seat in the following Oct. In 1932 and again in 1935 he was elected for Walefield

Greenwood Frederick English jour nalist. Born in London Mar 25, 1830 he became first editor of The Queen, 1861 63 and later was editor of The Cornhill Magazine, 1864 68 and The Pall Mall Gazelle, 1865 When the latter paper changed its politics 1899 (Present and Park 1895). its politics 1880. Greenwood resigned and the same year started a new paper. The St James s Gazetle He held strong views us to foreign affairs and suggested the purchase by Grent Britain of the Suez Canal shares (1875) His works include Margaret Denzil's History, The Lover's Lexicon and Imagination in Dreams He dled Dec 14, 1909

Chant Plainsong Gregorian antiphonal psalmody as devised рż foregory Fight groups of chants correspond to the eight modes or tones. They are to the eight modes or tones. They are represented on the plano by the white notes only. The four authentic modes

No. 1 Derian No. 3 Phrygian No. 5 Indian No. 7 Mixo-Lydian

are paired with a plagal mode lying a perfect 4th lower than each of them. This gives Nos-2 4, 6 and 8 named as are their authentic partners plus the prefix hypo

The chant begins vith an intoning note and

continues with a reciting note, which is which time the quarrel was renewed followed by the mediation, marking the half took possession of Rome, after a long of the chant, a reciting note and an ending 1084, and set up a rival pope Gregory conclude

Gregory Name of 16 popes Gregory I and Gregory VII noticed below The five The five who came between these two are of little account. Of the others Gregory IX was pope from 1227-41 and his reign was chiefly occupied by a struggle with Emperor Frederick II
Gregory X was pope from 1271-76, Gregory
XI, 1370-78, and Gregory XII, 1406-15,
when he abdicated as ordered by the Council of Constance and thus helped to end the Great Schism in the church Gregory XIII, pope from 1572-85, was the pope who reformed the calendar, called after him the Gregorian Calendar, and celebrated the massacre of S Bartholomew with a Te Deum Gregory XIV was pope 1590 91 and Gregory XV, 1621-23 Gregory XVI, pope from 1831-46, was known for his opposition to the liberal ideas of that time

Gregory I. Pope, called the Great. He Gregory I. was born in Rome about 540, a member of a wealthy family, and became a prominent official of the city In 574 he became a monk and later was one of the seven deacons who looked after the Christians in Rome, and became secoretary to the pope, who sent him on an important mission to Constantinople In 590 he was elected pope, and during his fourteen years of office he did a good deal for the temporal power of the papacy, by improved the temporal power of the papacy, by improved management of its great estates and in other ways. He was equally successful as the temporal ruler of Rome and as the spiritual ruler. porai ruler of rome and as the spiritual ruler of a great part of Christendom, in both cases asserting his rights, but equally zealous in spreading the faith and caring for the unfortunate. His best known actions are the sending of Augustine to England in 596 and the invention of the Gregorian system of chanting Gregory wrote a great deal, and many volumes of his writings have been published. He died March 12, 604, and was soon afterwards canonised.

Gregory VII. Pope from 1073 to Hildebrand Born about 1020, probably at Siena, he was educated in a monastery at Rome and became a monk and chaplain to Pope Gregory VI Pope Leo IX made him a cardinal deacon and appointed him to look offer the estate of the church. In this capacity. after the estates of the church In this capacity he proved himself a man of exceptional ability and he was soon the dominant member of the papal court. In 1054 he declined to become pope, securing the election of Victor II The next two popes, Nicholas II and Alexander II were also his populates. II were also his nominees, but there was a good deal of opposition to both, especially to Alexander However, in the end Hildebrand's determination won through

determination won through

In 1073 Hildebrand himself was elected and
he took the name of Gregory VII He reigned
for 12 years, perhaps the most thrilling in the
long history of the Papacy His two great alms
were to reform the church and to assert its
authority over the temporal power, represented
by the emperor He fought hard to put down
slmony and he strongly favoured celibacy for
the clergy Following out his reforming policy,
the pope forbade the investiture of clerics by

took possession of Rome, after a long siege in 1084, and set up a rival pope Gregory escaped to Monte Cassino, and then went to Salerno, where he died May 25, 1085

Gregory Augusta, Lady Irish dramatist.
Gregory Born Mar. 5, 1852, in 1881 she married Sir William Gregory, an Irish M.P. who died in 1892 Deeply interested in the Irish literary revival, she became a director of the Abbey Theatre Dublin, about which she wrote Our Irish Theatre, 1924 She translated three of Molière's plays for production there, but is better Ironan by her own drama. These but is better known by her own dramas These include The II inte Coclade, The Rising of the Moon, The Gaol Gate, The Full Moon, and many others She died May 22, 1932

Greiffenhagen Maurice English
artist. Born Dec 15,
1862, he studied at the Royal Academy Schools, London In 1906 he was made head of the Life Department at the Glasgow School of

Life Department at the Glasgow School of Art, but after a time settled in London In 1916 he was elected A R.A and in 1922 R A. His works include "The Judgment of Paris" in Sydney, and "Dawn" and "Women by a Lake," bought by the Chantrey trustees He died December 26, 1931

Grenada Island of the West Indies It being one of the Windward Islands, and is 86 m. from Trinidad It covers 133 sq m Its mountain range contains several extinct volcanoes, with lakes formed in their craters St George's is the capital and chief port St George's is the capital and chief port Cocoa, nutmegs, mace, cotton, sugar and other tropical products are grown and exported, rum is another important export. The island is under a governor and a legislative council
It was discovered by Columbus in 1498,
settled by the French and became English
in 1762 Pop (1931) 78,662
Grenade Small shell or bomb that is
carliert form the ground years and in its

earliest form the grenade was made of brass or earthenware, was filled with gunpowder and pleces of iron, and exploded by means of a fusc. The use of gren des died out about the beginning of the last century, but revived again in a new form in n ent years.

A grenadier vas originally a picked soldier, trained in the use of hand grenades France Regiment in 1067, and grenades France allotted four 10 each company of the Royal Regiment in 1067, and grenadier companies to three others England followed suit in 1678. The Premier Battalions of the Guards, having appropriated the name, an army order, in 1915 decreed that men trained to use hand grenades would henceforward be called bombers

Grenadier Guards Regiment of the British Army It was raised in 1660 and ranks as the first regiment of foot guards, although the Coldstream Guards are older It forms part of the brigade of guards, and may march through the City of London with fixed bayonets Their record of service is a fine one, including Quatre Bras and Waterloo In the Great Wartha Chenadlay cont four buttellors to Franchica. the Grenadlers cent four battalions to France, and their total casualties were nearly 12,000

The regiment has now three battalions
Grenadines Group of small islands in
Grenadines the Caribbean Sca They lie between St Vincent and Grenada, and belong to Great Britain They cover 14 sq m. Three only, including Carriacon, the largest, are inhabited They are administered partly the pope forbade the investiture of clerics by belong to Great Britain They cover 14 sq m lay rulers, and this brought on his famous Three only, including Carriacon, the largest quarrel with the Emperor Henry IV, who submitted at Canossa in 1077 The pope's from St Vincent and partly from Grenada victory lasted for three years, at the end of Pop 8000

Grenfell Julian Henry Francis English soldier and poet. Born Var 30, 1888, the closest son of Lord Desborough, he was educated at Eton and Balliol College Oxford In 1910 he joined the Royal Drazoons English | and in the Great War was awarded the D S O and in the Great War was awarded the DSO Wounded at Ypres on May 3, he died at Boulogne, May 13, 1915 His vorses Into Baille were published in The Times and he wrote other poems He was also a fine boxer and something of a scholar His brother, Gerald William Grenfell (b 1890) was killed at

Hooge, July 30, 1915
Grenfell Sir Wilfred Thomason medical missionary F Born Feb 28, 1865, and educated at Mariborough and Oxford, he became house surgeon of the London Hospital vuder Sir Frederick Treves In 1889 he joined the Royal National Mission for Deep Sea Fishermen, and creised the North see in the first hospital ship In 1892 he went as medical missionary to Labrador and established hospitals missions, homes, etc. there and in Newfoundland He was attached to the Harvard Surgical Unit in France carly in the Greek Ver Am 1997 he was healthed.

in the Great War In 1927 he was knighted His works include The Harvest of the Sea, 1905, and A Labrador Doctor 1918

Grenoble City and river port of France It stands on the Isere, 75 m from Lyons in the midst of magnificent mountain scenery There is a university The mountain scenery. There is a university. The city has some manufactures including the making of gloves, paper and fancy goods and there is a trade along the river. It has a broadcasting station (556 År 2 kW). Before the French Revolution Grenoble was the chief town of Dauphine Pop (1931) 90 748

Grenville George English statesman a younger brother of Richard Grenville Farl Temple He was educated at Lton and Oxford and in 1741 became MP for Buckinghem Having held several minor 1 estions in the government, he was made a Secretary of State and First Lord of the Admiralty in 1762 In 1763 he became Prime Vin ster a post he retained for two years His givernment was retained for two years. His government was recining to two years this government was responsible for the prosecution of John Wilkes and for the Stamp Act of 176 He died in London Nov 13 1770 In his early days Grenville was allied politically to the Pitt, who was related to the Grenvilles by marriage,

but later the two parted
Grenville's son 'Villiam Wyndham Grenville
(1759 1831) was also a stytesman He entered the House of Commons in 1782 and having leen Speaker in 1789 was made Home Secretary From 1791 to 1801 he was Foreign Secretary and as such closely associated with his Linsman William Pitt In 1806 07 he was premier of a co-lition ministry. In 1790 he was made a baron but the title became extinct when he died at Dropmore. Jan. 12, 1831

Grenville Sir Richard English sallor Born about 1541 a member of an old Cornish family he was MP for Cornwall, 1571 and 1584 and sheriff of Cornwall in 1571. In 1591, when a squadron under Sir Tlomas Howard was sont to the Ayores to intercept the treasure fleet of Spain Grenville. res vice admiral vas second in command. The results admiral vas second in command. The randsh feet received warniar and a fleet of vescis attacked Howard s sixteen off Floraris lief Howards amen being fill of the scurry, he was been second to the scurry, he was been second to the second of the s to break through the Spanish line, the valiant

ship fought the entire fleet for 15 hours, but was eventually captured, Grenville dying of his wounds a few hours later, Aug 31 1591 The story is told in Tennyson's The Revenge.

Gresham Sir Thomas English morehant and financier Born in London about 1519, he was educated at Cambridge and then entered Gray's Inn In 1543 he became a member of the Mercers Company Going to the Netherlands he amassed a large fortune as a merchant and was also financial adviser to the government He was knighted by Queen Elizabeth in 1559, before becoming ambassador to the Duchess of Parma died Nov 21 1579

built the Royal Exchange Grosham London and left his house in Bishopsgate and a sum of money to the Mercers Company, to found the Gresham College, in which every year courses of lectures in seven subjects are year courses of lectures in seven subjects are delivered by seven professors Rooms in the Royal Exchange were used for the lectures. until 1843, then Gresham College was bullt for this and other educational work Gresham's name is associated with the principle called Gresham's law, that good money drives out bad

money drives out bad

Greta River of Cumberland It flows west
into the Derwent near Derwent
water, and is 4 m long Greta Hall which
stands on the river was the home of Southey
for forty years Other Gretas are tributaries
of the Lune and Tees

Gretna Carliela and has a station on the

Gretna Village of Cumper and 16 is near Carlisle and has a station on the Enormous munition works were orceted here during the Great War

Gretna Green Village of Dumfrlos-Carlisle just across the River Sark that divides of Dumfries-England from Scotland Owing to its position. it was a favourite place for runaway marriages, since the law of Scotland was much more lax in this matter than the law of England The marriages were celebrated in the village smith, by the blacksmith, or in the inn by the innleoper

Greuze Born near Macon Aug 21, 1725 he early showed promise as a pointer, French artist. and when 30 years of age was elected to the Paris Academy His paintings are of a senti mental and somewhat conventional charactethough the homeliness of his themes and his close study of nature gave them a certain charm and secured him great popularity He died in poverty, Mar 21, 1805 Several of his works such as A Girl with Doves, are in the Wallace Collection

Greville Charles Cavendish Fulke Eng. 1791. he was educated at Lton and Oxford and early became secretary to Larl Bathhurst and non resident secretary of Jamaica. From 1821 to 1859 he was clerk of the Privy Council Taroughout his official career he kept a diary. and this was published in seven volumes, 1876 87, as The Grerdle Memoirs, a valuable and outspoken contribution to the history of his time He died Jan 18 1865

Grévy François Paul Jules French states-Aug 15 1807 he studied law in Paris becoming Tessels attacked Howard's sexteen off Flors an advocate in 1537. He was elected deputy to the Constituent Assembly and sat in the Legislative Assembly, 1849. It, when for a fewer tein conchow separated. Attempting to break through the Spanish line, the valiant 1869 he was elected to the Chamber, and having

1891, he died

Grey Earl English title borne since 1806 by the family of Grev The first holder, Charles Grev, fought with distinction in the Seven Years' War and the American

holder, Charles Grey, Tought Man and the American in the Seven Years' War and the American War of Independence, rising to the rank of general In 1801 he became Baron Grey, and in 1806 Earl Grey and Viscount Howick He was succeeded, when he died in 1807, by his son Charles, the statesman Charles Grey, born Mar 10, 1764, was elected MP for Northumberland in 1786 Associating himself with Fox, for many years he was an opponent of the policy of Pitt and an advocate of political and social reform He became First Lord of the Admiralty and then Foreign Secretary in the coalition ministry of 1806-07 From 1807 to 1830 he was leader of the Whigs, then in opposition In 1830 he became Premier and his ministry was res-

of 1806-07 From 1807 to 1830 he was leader of the Whigs, then in opposition In 1830 he became Premier and his ministry was responsible for the great Reform Act of 1832 He resigned in 1834 and died, July 17, 1845 Henry George Grey (1802-91) his eldest son, succeeded him as 3rd earl He entered the House of Commons in 1826 and held office in several Whig ministries From 1846 to 1852 he was Secretary for War and the Colonies He was succeeded by his nephew, Albert Henry George Groy, 4th earl (1851-1917) who, a great traveller in his early life, was administrator of Rhodesia, 1896-97 and Governor-General of Canada, 1904-11 His son, Charles Robert Grey (b 1879), succeeded him as 5th earl The family seat is Howick Hall near Lesbury. Lesbury.

Grey Lady Jane Queen of England for nine days. Born at Bradgate Park, Leicester, in Oct, 1537, she was the eldest daughter of Henry Grey, Duke of Suffelk, her mother being a granddaughter of Henry VII Of remarkable intellectual attainments, she received a thorough educa-tion, and when she had barely reached woman-hood astounded with her learning the greatest scholars of the day, including Roger Ascham The Duke of Northumberland, desiring the aggrandisement of his family, married her in May, 1553, to his son Lord Guildford Dudley, and then sought to alter the succession in her After the death of Edward on July 6, 1553, she was proclaimed queen, but Mary's friends were too strong for her, and on the 19th she was arrested. She was tried, sent-enced to death for high treason and on Feb 12, 1554, together with her husband, was beheaded on Tower Hill

Crey Sir George English official Born officer, and himself entered the army In 1839 he retired, and in 1841 was made Governor of S Australia In 1845 he went as Governor to New Zealand, and there he did a great work. He left it in 1853 to become Governor of Cape Colony, but returned in 1861, and was again Governor until 1867 From 1877 to 1884, Grey, who was knighted in 1848, was Prime Minister of New Zealand He wrote accounts of two expeditions along the coasts of Australia in which he took part, and books on the early inhabitants of New Zealand. He died in London Sept. 20, 1898

Another Sir George Grey was a Whig politi-

nade a reputation as an orator, was chosen President of the National Assembly in 1871, Grey, he was elected M.P. for Devonport in 1832, is he was in 1876, 1877 and 1879. In 1879 he had sat in Parliament until 1874. Having filled minor positions he was Home Secretary in the end of his seven years of office was again the end of his seven years of office was again the end of his seven years of office was again to his parliament until 1874. Having filled minor positions he was Home Secretary in 1846 to 1852, 1855-58 and 1861-66. He died, Sept. 9, 1882, his baronetery passing to his Born in 1799, a grandson of the 1st Earl Grev, ne was elected Al P. 10r Devonport in 1832, and sat in Parliament until 1874 Having filled minor positions he was Home Secretary in 1846 to 1852, 1855-58 and 1861-66 He died, Sept 9, 1882, his baronetey passing to his grandson, who later became Viscount Grey of Fallodon (g t)

Grey of Fallodon Viscount. English statesman Born April 25, 1862, Edward Grev was the eldest son of Lieut-Col C H Grev and a member of the old Northumberland family He went to Winchester and then to Balliol College, Oxford While there, in 1882, he became a baronet on the death of his grandfather, Sir George Grey. At the same time he inherited Fallodon Hall and the family estates

estates
In 1885 Grey was elected MP for Berwickon-Tweed From 1892-95 he was UnderSecretary for Foreign Affairs, and during the
ten years 1895-1905 he came to the front as
one of the leaders of the Liberal party In
1905 he became Foreign Secretary, and he
held that post until 1916 He was responsible
for the policy of Great Britain during the
fateful years that preceded the Great War
and it was his lot to conduct the negotiations
that ended in his country's participation in the
struggle He remained at the Foreign Office
until Dec, 1916, when he resigned with Asquith
and other Liberals He was then made a
viscount Partly owing to failing eyesight
Grey took little further part in public life, but
occasionally he appeared as a moderate Liberal
on the public platform He died in 1933
On his two hobbles, fiv-fishing and the obser-

On his two hobbies, fiv-fishing and the observation of bird life, he wrote books, including The Charm of Burds, and in 1925 he issued his The Charm of Birds, and in 1925 he issued his memoirs Twenty-Five Years Later he edited The Fallodon Perpers. His honours include the Order of the Garter and the Chancellorship of the University of Oxford, to which he was elected in 1925. He was twice marned, his second wife, formerly the wife of Lord Glenconner, dying in 1928. In early life Grey was constant tonyis charmler. amateur tennis champion

Greyfriars Name given, from the colour of their dress, to the members of the Franciscan order. The most famous house of the order was in Edinburgh, and the name is still borne by two churches there. The monastery of the Greyfriars was founded in 1436 and destroyed in 1547. In 1614 the in 1430 and destroyed in 1347. In 1614 the church called the Greyfriars was built, and in its churchvard the National Covenant was signed in 1638. It contains many memorials, including one to the Scottish martyrs

Greyhound Breed of dog A tall, limbed hound, it is smooth-haired and in colour uniformly grey or sandy Being very fleet it is kept for coursing hares by sight. The old English greyhounds, sometimes used for hunting, were heavier than the modern breed Rough-haired Scotch, Persian, Afghan and Russian breeds exist and Italian grey-hounds are miniature pets

Cape Colony, but returned in 1861, and was all Governor until 1867 From 1877 to 1844, Grey, who was knighted in 1848, was counts of two expeditions along the coasts a Australia in which he took part, and books in the early inhabitants of New Zealand. It worked by clectricity, and as soon as it is set in motion the dogs are released by opening a Another Sir George Grey was a Whig politition of the dogs are released by opening a trap door. The sport affords ample opportunity

In Parliament until 1841 He was active in establishing London University and was interested in philanthropic and educational work of other kinds Grote is known however, as the historian of Greece His History of Corner in the North Corner in the N Greece in 12 volumes was long a standard work for students, and is not yet entirely superseded He died June, 18, 1871

Grotius Hugo Dutch jurist Born at Delft, April 10, 1583 he studied at Leyden and practised as a lawyer His remarkable abilities attracted attention, and he was made Pensionary of Rotterdam and Historiographer of the United Provinces In 1619, having taken some part in politics, he was put in prison but in 1620 he escaped to France and lived for some years in Paris 1634 he entered the Swedish service, and was sent to Paris as ambassador He died Aug 29, 1645

Grotius is known as the author of De Jure Belli et Pacis (Concerning the Law of War and Peace), a masterly work, published in 1625, which haid the foundations of international law In 1915 a Grotius Society was founded in London for the study of international law

Grotto Underground chamber either nutural, artificially enlarged, or entirely artificial Among natural grottos is the picturesque Blue Grotto on the island of Capri which has been hollowed out by the sea and extends 175 ft Near Naples is the Grotto del Cane, remarkable for its vapours, and in the Greck island of Antiparos, one of the Cyclades, there is a grotto with a fine stalactite formation

Grouchy Emmanuel French soldier Born in Paris, Sopt. 5, 1766, he entered the army He helped to suppress the rising in La Vendée in 1793, and took part in the expedition to Ireland in 1798. He served with distinction in Italy and against Austria He went with Napoleon to Russia and was with him during the retreat from Moscow, and at the Battle of Leipzig. He led the beaten French armies back to Paris after Waterloo but on the return of the Bourbons escaped to the United States In 1819 he returned to France, and in 1830 regained his rank as a marshal Ho died May 29, 1847

## Ground-hog See Woodenuck

Ground-Nut Fruit of an annual leguminous herb (Arachis hypogaca) A native of S America, it is now cultivated in most warm countries for its valuable oil. The flower stalk twists downward and buries the immature fruits in the soil where they ripen becoming wrinkled pods which contain one or two seeds

Ground Rent had for the ground on which a house or other building stands, distinct from the rent paid for the building itself. Ground rent is paid for all lenschold and and the owner who receives it is called the ground landlord. Freehold land does not pay ground rent

Groundsel (Seneco rulgaris) of the order Compositive Found in all parts of the British Isles, it has deeply cut leaves and small yellow flowers succeeded by a white fluffy seed head A sprig of groundsel in the cago is mally appreciated by canaries and other cage is mally appreciated. oirda.

Group Captain Rank in the Royal below air commodore and above wing commander. It corresponds to that of colonel in the army and captain in the navy.

Grouse Name of a family of game birds.

Grouse In Great Britain it is used for the

red grouse or moor fowl (Lagopus scoticus), a form of the willow grouse The grouse is preserved for shooting, and in Scotland and the north of England large moorland areas are north of England large moorland areas are devoted to it The season lasts from Aug 12 to Dec 10 The bird is a table delicacy and weighs from 20 to 30 oz The hen bird lays from 7 to 10 eggs Other species of grouse are the wood grouse or capercaillie, the snow grouse, or ptarmigun, the spruce or Canadian grouse and the sage grouse The sand grouse belongs to another family

Groyne Low wall, built on the seashore and the lateral drift of sand and shingle It is made

the lateral drift of sand and shingle It is made of masonry, concrete or heavy timber belted to piles Sand and shingle tend to accumulate on one side of the groyne, and so raise the general level of the foreshore, thus forming a barrier against the encronchment of the sea Groynes are also constructed on rivers to regulate the flow of water and to prevent crosion of the banks

Grub Street Name of an old London Fore Street to Chiswell Street and since 1830 has been called Milton Street Hero, in the 18th century, literary hucks of the poorest kind are said to have made their homes. Since that time the term has been used to denote writers who eke out a precarious living

Grundy Mrs Personification, in Great Britain, of propriety, respectability and convention "What would Mrs Grundy say?" was the frequent romark of Damo Ashfield, a character in Speed the Plough, a play written by Thomas Morton in 1798 It became a catchword and still persists

Gruyère District of Switzerland It is in the canton of Freiburg around the little town of Gruyères It gives its name to a kind of cheese made here

Guaco Name of a plant of the order eupatoriacca. It grows in S America, where it is believed that any one who eats it cannot be harmed by snake bite

Guadalajara City of Mexico It is 280 is connected by railway with the capital and the coast The chief building is the cathedral, an enormous and magnificent structure, dating from the early 17th century There is a university The city is a prosperous manu facturing and trading centre Pop 143,400 An older Guadaijara is a town of Spain, 33 m from Madrid

Guadalquivir River of Spain It In the south of the country and flows mainly in a westerly direction, to the Atlantic Ocean, which it enters about 20 m north of Cadiz It is navigable as far as Seville, while barges can reach Cordova Its length is 370 miles

Guadeloupe
Two islands of the W Indies belonging to

France Called Grando Terre and Basse Terre they form part of the Lesser Antilles and lie between Antique and Dominica, being divided by a narrow channel The two cover 522 sq m., but with their dependencies, five smaller islands, the total is 688 sq m. Coffee, sugar, bananas cocoa and other tropical products are exported, as is rum Basse Terre is the capital. but Pointe-à-Pitre is the chief port and much the largest place The affairs are managed by a governor and a council Pop (1932) 207,407

## Guaiacum See Lignum Vitae

Guam Island of the Pacific Ocean. It belongs to the United States and is the largest of the Marianas Islands It is 32 m long and covers 206 sq m Agana is the capital and Pita the chief port. Coconuts, copra, sugar and other tropical products grow, and there are large forest areas. taken from Spain in 1898 Pop Guam was Pop 18,509

Guanaco Animal found in S America lives in large herds in the mountains about 4 ft. high at the shoulder

Guano Accumulated excrement of sca-fowl Deposits 50 or 60 ft thick, found on islands of Peru, have been utilised for manure since about 1841. It owes its value to its content of ammonia and phosphorus. The deposits are now much depleted, but have been supplemented by others in W Africa

Guarantee Promise or undertaking to make good any default by another person An overdraft at a bank is often guaranteed. In such a case the person guaranteeing it will make good any loss the bank may sustain through the failure of the borrower Similarly, debts owing to individuals and firms are sometimes guaranteed.

Sometimes a guarantee is required from a person who is appointed to a position of trust, a cashler for instance To give such, guarantee associations exist The employee, or employer, makes an annual or other payment to such a society which in return, will make good any loss the employer may suffer through the

employee's misdeeds.

Guardian Person who looks after smoother, usually a minor or a person of weak intelligence A child's natural guardian is the father or mother, but when they are dead one or two guardians are usually appointed by will The powers of the guardian appointed by will The powers of the guardian are very much the same as those of the parent. Sometimes, when disputes arise, a guardian is appointed by the Court of Chancery, and to this court a guardian can appeal if in a serious difficulty with his ward.

Another kind of guardian was the person elected in England and Wales to look after the administration of the Poor Law In each union of parishes there was a Board of Guardians They were abolished in 1929 and their duties transferred to Public Assistance Committees appointed by the county and county borough

councils

Name given to military units Guards with special physical and other qualifications The first guards were the picked dualications the first guards were the picked soldiers who were selected for the honourable duty of guarding the person of the king or leader. The Roman emperor had the Praetorian Guard and the Kings of France had regiments of guards. Napoleon had his old and his young guard, and there were guards in other armies, notably the Praesien. notably the Prussian

In England, apart from the Yeomen of the Guard, guards first appeared in the time of Charles II Regiments of them were then

There are two regiments of horse guards in the British Army, the Life Guards and the Royal Horse Guards, they form the sovereign's escort on ceremonial occasions Of foot guards there are five regiments, Grenadiers, Cold-stream, Scots, Irlsh and Welsh. Together they form the brigade of guards, with a depot at-Caterham, Surrev.

Guatemala Republic of Central America It lies to the south-vest of Mexico, and touches both the Atlantic and the Pacific Oceans, although it has only a short coastline on the former Much of the area is mountainous and there are some volcanoes, whilst earthquakes are frequent The area is 42,353 sq m Guatemala is the Other places are Quezaltenango, capital Coban and Zacapa The chief ports are Puerto Barrios and Livingston on the Atlantic, and San José and Champerico on the Pacific The chief products are coffee and sugar, bananas and other tropical plants and fruits. From here the United States gets most of its chicle from which chewing gum is made There are considerable forests, especially of mahogany and dyewoods, rich deposits of minerals, though little is mined

Gnatemala is governed by a president elected. for six years, a national assembly, elected by universal suffrage for four years, and a council of state The people are chiefly Roman Catholics Military service is compulsory. There is a central bank, and the unit of currency is the quetzal equal to the American dollar. The population is about 2,000 000, of whom over half are Indians In the land are many

remains of Mava civilisation

Guatemala was a Spanish possession for about 300 years before 1821 when it became free. From 1821 to 1847 it was part of the confederation of Central America, it then became an independent republic Early in the 20th century the United States interfered to put down civil war, which had been raging for some vears

Guatemala City of Central America, the largest and most important capital of the republic of the same name It is 80 m from San José, its port on the Pacific, and is also connected by railway with the Gulf of Honduras on the Atlantic There have been four cities of this name, three being destroyed by earthquakes the third in Jan, 1918 The new city is laid out on spacious lines about 12 m south of the old site. There are some manufactures and a considerable trade Pop 165,928

Small tree that grows in the W. Indies. It bears white flowers and the fruit, shaped somewhat like a pear, is edible It has an acid tast, but is sweeter than the lemon It is made into jelly and into a kind of cheese

Guayaquil City and seaport of Ecundor the River Guayas and is 150 m from Quito, the capital of the republic The industries are shipping, for which there is a good harbour, and a number of manufactures. It is the terminus of the railway line to Quito Pop. (1932) 120 000

The Gulf of Guayaquil is an opening of the Pacific Ocean It is 100 m. wide at the mouth

and contains the island of Puna

Gudgeon Genus of small fresh water fish (gobio flurialilis) Common Charles II Regiments of them were then throughout Europe it is found in rivers and formed, and these, soon divided into horse and streams of the British Isles. The angles of the foot, are the ancestors of the gnards of to-day mouth have barbels like the carp, to which it is related. The firsh has a delicate flavour It is very easily caught by anglers

Guedalla Philip British author Born March 12, 1889 he was edu cated at Rugby and Balliol College Oxford, where he was President of the Union He became a barrister and was legal adviser to certain revernment departments during the Great War He won a reputation by his historical writings notably the Partition of Europe, 1715 1815 1914, and The Second Empire, 1922, and increased it by his sketches and essays, such as those in the volumes Supers and Supermen, 1920, and 1 Gallery, 1924, and by his biography of Lord Palmorston 1926 In 1931 his life of the Duke of Wellington appeared In 1933 he published Letters of Queen Victoria and Gladstone, and in 1934 The Hundred Days

Guelder Rose (Fiburnum opulus)
honoy suckle order A native of Britain it is
distributed in temperate and colder northern
regions Its roundish clusters of small creamy flowers are ringed by larger white sterile corollas, and are succeeded by scarlet fruits It grows to a height of 7 or 8 it. A cultivated variety, with all flowers sterile, is called the snowball tree

Guelph City of Ontario, Canada It is from Toronto on the ON R and CPR There are some manufactures and a trade in agricultural produce Here is the Ontario Agricultural College Pop 21,075

Guelph Family See Windson

Guernsey One of the Channel Islands It is 9 m long and covers 241 sq m being the second largest of the group St Peter Port is the capital, St Sampson's is next in size, the others being villages only There are some old churches and manor houses in the island, as well as pre historic remains The chief industry is market gardening, fruit, flowers, and vegetables being largely grown Its breed of cattle is famous and fishing is carried on Many persons carn a living, by catering for the numerous visitors There is a regular service from Southampton both by air and see both by air and sea

The island has its own government under The Island has its own government and the lieutenant-governor and bailiffs and for the murnor includes Herm and Sark The this purpose includes Herm and Sark The royal court is the court of justice, and the legislature is called the States It consists of both elected and official members. Guernsey is in the diocese of Winchester. Pop. 38,315

Guerilla Spanish word meaning a little war and used for irregular warfar. Guerilla warfare consists in attacks upon a regular army by bands of irregular troops usually the inhabitants of an invaded country. There was a good deal of guerilla warfare when the I nglish troops were in the Spanish Peninsula between 1808 1812. The Boers resorted to guerilla warfare in 1901 02, and in the 20th century the French and Spanish forces in Morocco suffered a good deal from it. deal from it.

Guesclin Bertrand du Constable of 1320 he made a name for hime if by his exploite in fighting the English in Brittany In 1304 he defeated the King of Navarres army at Cocherel and four mouths later he was taken by the cocherel and four mouths of the collections of the collection of prisoner by the English at Auray On being tet free he took part in the war against Pedro the Cruel in Spain, and in 1367, at the battle at

Navarette, he was again taken prisoner by the Black Prince He captured Pedro in 1365, however and in 1370 was made constable of France by Charles V, later recovering much territory from the English He died July 13, 1380

Guest Sir Josiah John Welsh ironmaster Born Feb 2, 1785, at Dowlais, Glamorganshire, he was the grandson of John Guest, founder of the Dowlais Iron Works of these works he became manager in 1815 and made them the largest of their kind in Great Britain He was MP for Honiton, 1826 31 and for Merthyr Tydvil, 1832 52, and was made a baronet in 1838 He died Nov 26 1862 His eldest son was made Baron Wimborne, and one of his grandsons, Frederick Edward Guest (b 1875), is a soldier and politician The Dowlais Iron Works now be long to the firm of Guest, Keen and Nottlefolds

Sir Josiah Guest married Lady Charlotte, daughter of the Larl of Lindsey She published the collection of Welsh tales called The

588

the collection of Weish tales called The Molinoyion She married a second time, and died Jan 15, 1895

Guiana America It is divided into three portions, belonging to Great Britain, France and the Netherlands To the south is a district belonging to Brazil sometimes called Brazilian Guiana. Its area is about 176 000 Brazilian Gulana Its area is about 175,000 sq m

Guiana British British crown colony continent and covers 89,500 sq m, its neighbours being Venezuela, Brazil and Dutch Guiana It is largely forest, only a small portion of the soil being cultivated George town is the capital The three rivers are the Borbies because and Domorre Sugar rice Berbice, Essequibe and Demorara Sugar, rice and other tropical products are grown, and the exports include timber and balata. The colony is under a governor and an executive council, since 1928 there has been a legislative council English law prevails English and American coins circulate Having been a Dutch posses sion for many years, this part of Guiana was taken by Great Britain in 1796 and ceded to lear in 1814 Dec. (1911) her in 1814 Pop (1931) 318,312

Guiana Dutch It is on the north coast of South America between British and French Guiann with Brazil to the south It covers 54,300 sq m and is known also as Surinam Paramarlbo is the capital Pop (1931) 155,888

Guiana French French colony It lies on the north coast with Dutch Guiana on the west and Brazil to the cast and south At Maroni there is a ponal settlement Sugar, rice and other tropical products are grown and there are immense areas covered with timber The colony is under a governor and a council

The colons is under a governor and a council it sends a deputy to the chamber in Paris Cayenno is the capital The area is 34,740 sq m Pop (1931) 22 169

Guides Corps of Corps in the Indian for service on the frontiers by Sir Henry Lawrence, and was called the Queens Own Corps of Guides The corps includes both cavalry and infantry, and its headquarters are at Mardan The guides have a fine record of cervice, which is recorded in The Story of the Guides, by Sir G J Younghusband

An earlier corps was a force in the French Army in the time of Napoleon

Army in the time of Napoleon

Guienne Name of one of the old provinces of France It was in the south

GUINEA

west of the country and was at first part of room, were erected in the 20th century The Aquitaine It soon became a separate province Guildhall School of Music is in John Carpenter with Bordeaux as its capital and from 1154 to 1451 was an English possession After its recovery by France it was united with Gascony After its

Guilbert Yvette French lyric artiste. for a dressmaker and on a newspaper In 1893 she appeared on the stage in Paris, and was for many years the chief French actress in her own line She appeared in London and other capitals, and passed some time in the United States She has written two novels volumes of autobiography and a book on how to sing a song, which has been translated into English In private life she is the wife of Dr M Schiller

Guild Association of men in a common men comployment or cause The word The word means a payment, and comes from the Anglo-Saxon gold The members subscribed to the iguild, the money being used for the assistance of the poorer brethren, also for feasts and Masses for the dead The carliest guilds appeared in the 12th century, and in a short time as trade and industry grew, they became very powerful In some cases they secured a charter, and became the council or governing body of the town this accounts for the use of the word guildhall for a town hall.

Other guilds remained craft guilds, or associations of workers in the same trade These controlled the trade, regulated the supply of apprentices and acted very much as modern trade unions do The guilds began to decay about the 16th century, and disappeared with the coming of the industrial revolution In London, however, the guilds remain as the city livery companies, of which there are 77, although their original functions have ceased In the 19th century the word was revived for a voluntary association of workers and also for a religious association Guilds were established,

for instance, in the building trade

Guildford City and market town of
Surrey It is 29 m from
London and is reached by two branches of the S RIV The Wey flows past the town. There are remains of the castle, including the keep and the gatehouse in which is a museum Abbot's Hospital, an almshouse, founded by George Abbot, Archbishop of Canterbury, is also worthy of mention In 1927 Guildford was made the seat of a bishop and a new cathedral has been planned There is an agricultural trade flour mills and brewerles are among the chief industries. The town has extensive caves which have been lit and opened to the public. Pop. 30,800

A small town of Western Australia is called Guildford It is 9 m from Perth Pop 2500 Guildhall Hall erected by a mediaeval guild to house its meetings. As in many towns the guilds and the governing body of the town were identical, guildhalls became the headquarters of the municipal corporations, the headquarters of the municipal corporations, and this word is still used for some of them Of existing guildhalls the finest is the one in London, the headquarters of the city corporation. It is at the end of King Street, E.C., and was built in the 15th century. It was damaged in the Great Fire, since when much restoration work has been done. A thorough restoration was carried out in 1864. The chief room is the Great Hall, in which the city banquets are held. Connected with the Guildhall is a library and reading-room, an art gallery and a museum. Additional buildings for the work of the corporation, including a court

Street, London, EC 4

There are guildhalls in Exeter, York. Rochester and other cities and towns, and some modern buildings, the one at Nottingham, for instance, have been given this name

School of Socalist Guild Socialism School of thought which became prominent after 1910 in Great Britain Its main idea is one of self-government in industry and the organisation of the economic life of a community on a functional basis In 1915 the National Guilds League was formed by G D H Cole and others, and in the course of the war, the shops' stewards movement was begun, and the workers gained more control. After the war Guild Socialism spread, and the National Building Guild executed many im-The National portant housing contracts fortant nousing contracts in the Socialist lideas have become embodied in the Socialist scheme, notably the belief that power with responsibility should be as widely diffused as possible throughout the mass of the people

Guillemot Genus of long-billed, short-tailed diving birds (Uria) of the auk family They are abundant on rocky British coasts in the breeding season, being there represented by the common U troile, and the black guillemot. Both lay eggs on the cliffs The birds are found also in the northern parts of Europe

Guillotine Instrument for decapitating criminals It was adopted in France during the French Revolution and was named after Ignace Guillotin, a physician who recommended its use to the Assembly in It consists of an upright frame in which 1789 is suspended a heavy triangular blade which, when released by a cord, falls upon the neck of the victim

The word is applied also to various types of machine used for cutting paper and cardboard

Guinea English gold coin It was first minted in 1663 from gold from the Guinea coast and was then worth 20s In 1717 its value was fixed at 21s Colns for five and two guineas were minted, and half and quarter guineas were issued In 1817 the minting of the guinea ceased, but professional

fees are still usually paid in guineas
Guinea Name given in the 15th century
to much of W Africa. The Guinea coast lies between the Senegal River and Cape Negro, that is, along the coast of the great Gulf

of Guinea
The Gull of Guinea is part of the Atlantic on the west coast of Africa In it are a number of bays including the Bights of Benin and

Guinea French French colony in W Sierra Leone and Portuguese Guinea, its remaining boundaries being other French possessions, and has a coast line on the Atlantic Ocean It covers \$9,436 sq m. Conakry is the capital and chief seaport. Rubber, palm oil rice, cotton bananas and coffee are the chief products Many cattle, sheep and goats are kept. The colony has a railway line from Conakry to the Niger, and some good roads. Pop (1931) 2,236,968

Guinea Portuguese Portuguese colony in W Africa. It lies between Senegal and other territories belonging to France, with a coastline on the Atlantic Ocean the work of the corporation, including a court 13,944 sq m It includes the archipelago of Bijagoz and the island of Bolama Bolama, on French and the Germans the island, is the capital, and Biesau is the chief port. The colony exports rubber, ivory, oil and hides Pop (1930) 364,929

Guinea Spanish Colony of Spain in W Africa It consists of Rio Muni on the mainland and the islands of Fernando Po, Annobon, Corisco and Great and Little Elobey The capital is Santa Isabel (pop 8345) on Fernando Po There is very little export trade The area is 10,036 sq m Pop

Guinea Fowl Game bird (Numida short bill, a red wattle and a fleshy casque The Portuguese brought it from Africa to Europe in the 16th century It lives in large flocks in Africa and parts of Europe The bird to the control of the red of the total of the state of the control of the state of t is used for the table and its eggs are eaten It was a delicacy to the Greeks and Romans

Guinea Pig Small domesticated rodent cavy of Peru, and was introduced from Guiana into Europe in the 16th century There are many varieties. The animals, which are very prolific, are kept as pets and are much used

by scientists for experiments
Guinevere Wife of King Arthur Ac
cording to the story as told in the Morte d'Arthur, she was a daughter of the King of Camcliord She married Arthur, but was unfaithful to him and accepted the love of Lancelot This led to the break up of Arthur s court and the death of the king Guinevere then went into a numery at Ames bury where she died. In other versions of the story the queen s lover was Modred

Guinness hame of an Irish family of brewers Arthur Guinness who owned a brewery at Leixlip in the 18th century, transferred it to Dublin where it became famous for its stout known as porter His grandson, Benjamin Lee Guinness (1798 1868) greatly enlarged the business, which in 1866 became a limited company He was made a baronet in 1867. His eldest son, Sir Arthur Ldward Guinness, was, in 1880 created Baron Ardilaun He died in 1915 without sons. Another son Edward Ceil Guinness, was made hard Iveney in 1819. Name of an Irish family of Guinness was made Larl of Iveagh in 1919

Guisborough Urban district and market town of York shire (NR) It is 9 m from Middlesborough with a station on the LNE Rly The in dustries are connected with the iron ore deposits near The town has ruins of a priory iron ore

Pop (1931) 6006

Guiscard Robert Norman soldier Born in Normandy about 1020, he was one of the many sons of Tancred of Haute ville some of whom had captured Apulla from the Greeks Following his elder brothers to Italy about 1016 in 1057 he succeeded as Count of Apulla being recognised by the Pope as duke Invading Greece he won the Battle of Durazzo in 1081 then returning to Italy to the sid of Pope Gregory VII, he drove the emperor Henry IV from the country He died in July 1055

July 1085
Guise Town of France It is on the Olse,
Guise 30 m from Laon and is a manu
facturing centre. It is chiefly famous however
for giving its name to a family that played a
large part in the affairs of France. The chief
builting is the cistle. Pop (1934) 7,370
Larly in the Great War Guise was occupied
by the Germans and on Aug. 29.30, 1914
there was a battle near here between the

The French 5th Army, led by Lanrezae, stopped in its retreat and turned on the pursuing Germans, who were driven back across the Oise, but the arrival of reinforcements to them, and the failure of support to the French, turned the tide, and on the 30th, Lanrezac broke off the engagement and continued his retreat. In the autumn of 1918 the Germans were driven from Guise

Guise Famous French family The count-ship of Guise was held by a junior branch of the ruling family of Lorraine claude (1496 1550), second son of Rene II. Duke of Lorraine inherited it and the Duchy of Aumale in 1508, and in 1513 married Antoinette de Bourbon, a member of the royal family fought with distinction in several campaigns, and in 1526 became Governor of Champagne and Duke of Guise

The 2nd duke was François (1519 63) who, after a distinguished careor as a soldier, became, under Francis II, the virtual raler of France His brother, Charles (1524 74), Archbishop of Rheims and a cardinal shared his brother s

DOWER

Henri, the 3rd duke (1550 88) was, like his father, a soldier, and played a conspicuous part in the massacre of S Bartholomew 1572 Ho conspired against Henry III, who had him murdered Dec 25, 1583 These dukes and their relatives were the

Guises who were so prominent in French history in the 16th century The later dukes were less important. Henri, the 5th duke, was Arch bishop of Rhelms before he succeeded to the title The last duke was François who died in 1675 A member of the family, Mary, married James V of Scotland and was the mother of Mary, Queen of Scots

Guiseley (WR) lt is 2 m from Otley, on the LMS Rly, and the woollen industry is the main occupation of the inhabitants Pop (1931) 5607

Guitar Musical instrument with a long neck and fretted fingerboard Its music is written an octave higher than it is sounded and on the troble staff. The guitar is Spanish, and possibly a descondant of a bowed instrument.

Guitry Lucien Germain French actor appeared on the stage in La Dame aux Camelias, 1878 Then after some years in St Petersburg. he returned to Paris where he was a producer at the Comedie Française and manager of the Renaissance Theatre He was the foremost French actor of his time He died June 1,

His son Sacha was born at St Petersburg, reb 21, 1885 and made a name both as actor and as dramatist Among his successful plays are Le Page, Nong La Clef, Deburau, Jacqueline and Mozari His wife was the actress Yvonue Printemps

Guizot François Pièrre Guillaume French scholar and politician Born at Nimes Oct. 4 1787 he was educated being a Huguenot in Geneva Later he studied law in Paris and began to write In 1812 he was made Professor of Modern History at the university and in 1814 he entered the public service as Secretary of the Interior In 1830 he entered the Chamber of Deputies, and was and was made a minister At this time he did a great work for education establishing schools all over the country. In 1840 Guirot was sent as Ambassador to London but he soon returned affairs, both at home and abroad, was far from successful and very unlike the liberal ideas he had advocated in his early days. In 1848 he shared his master's fate and escaped to England. He returned in 1849 and gave his concluding years to writing. He died Sept. 12, 1874

Guivot's writings are chiefly historical and some deal with the history of England, of which country he was a great admirer His History of Civilisation in Europe, long a classic, is

perhaps the best.

Gujarat Town of India. It is in the Punjab, 75 m from Lahore and is the capital of Gujarat district. It is also a manufacturing town. Here, on Feb. 21, 1849, Lord Gough defeated an army of Sikhs, 60,000 strong The victory led to the capture of Gujarat, then one of their fortresses, and the surrender of the Puniab

Gules One of the seven heraldic colours. It means red and is shown on heraldie drawings by vertical lines drawn closely

together

Gulf Stream Oceanic current in the North Atlantic A warm north current, driven by the N E trade winds, divides at the W Indies, one part passing through the Caribbean Sea and the Gulf of Mexico, the other skirting the N.E shores of the islands Near Florida, these currents meet and flow N E as the Gulf Stream, at first 30 m wide and with a speed of 4 knots It gradually becomes shellower and cooler and gradually becomes shallower and cooler, and where it encounters the prevailing west winds of the N Atlantic, spreads out into the Gulf Stream drift which reaches Great Britain and W Europe, where, still warmer than the surrounding water, it raises the temperature of W Europe considerably

Gulfweed Coarse, olive-brown sea weed (Sargassum bacciferum) of the bladderwrack family It grows in the Gulf of Mexico and is carried northwards by the Gulf Stream, sometimes reaching British waters and even Malta It collects in the Atlantic, in what is known as the Sargasso Sea, where Columbus saw it in 1492, and covers Its branches bear staiked enormous areas berry-like air bladders which keep it afloat

Gull Family of web-footed sea birds, Larinae The upper bill tends down over the lower; the tall is usually squared They are white or grey in colour and are strong swimmers and powerful and swift in flight. They move in flocks and their nests are usually in cliffs Their eggs are edible of regular British residents; the sea recognistic forms. Of regular British residents the sea-mew (L canus), misnamed the common gull, is frequently seen inland. The bird Londoners see from the Thames bridges in winter is the black-headed gull (L radibundus), the one familiar to visitors on the south coast is the

herring gull (L argentatus)

Gullane Watering place of East Lothian,
on Gullane Bay, part of the Firth of Forth,
and is 20 m. from Edinburgh, on the L.N.E.
Riv. Gullane figures in R L Stevenson's

Pop 1440

to France as Foreign Minister and then Prime, which grows in Europe, produces a powerful Minister to Louis Phillipe. His conduct of antiseptic oil. Gum trees also grow in N America, species being the sweet gum, cotton gum and black gum.

> Gum Substance exuding from certain plants and hardening on exposure to the air It is a tasteless, odourless, amorphous carbohydrate, yielding an edhesive liquid, and is either soluble in water, as gum arabic, swelling up and forming a muclage, as gum tragacanth, or partly soluble, partly muclaginous, as cherry gum. The basic ingredient of chewing gum is chicle gum, obtained from a tropical American tree British gum, used on postage stamps, is dextrine pre-Gum pared artificially by roasting starch Gum resins are vegetable juices combining gum, soluble in water, and resin, soluble in alcohol When powdered they form emulsions in water, eg, ammoniacum and myrrh

> Gum Fleshy tissue, covered by mucous membrane, connected with the membrane enveloping the jaw bones. It forms a raised collar round the base of each tooth's Scurvy or neglected teeth may cause inflammation, abscesses, resulting from carious teeth or chill, may break through and form gumboils Should the abscess produce pus in the socket between tooth and gum its discharge is called pyorrhoea

Town of East Prussia, Gumbinnen Germany It is an in-

dustrial town, 65 m by rail from Königsberg, and stands at the junction of two little rivers, the Pissa and the Romana Pop 19,500

Near Gumbinnen, on Aug 20, 1914 a large Russian army, having advanced into East Prussia, met a smaller German force which had retreated before it The Germans made a good fight, holding their entrenched positions throughout the day, but in the end they were compelled to retreat to Königsberg

Gun General term for various kinds of fire-trincludes all varieties from the sporting gun and rifle to the heavy cannon of artillery and naval ordnance The sporting guns are all breechloaders, and most are double barrelled with a smooth bore of varied dimensions In artillery and naval ordnance guns vary greatly in size, calibre and character, from the field and machine gun to the long

from the field and machine gun to the long range and heavy cannon of warships According to the Firearms Act of 1920, no person is allowed to possess, use or carry any firearms unless a licence has been granted by the police, and further, no sale of firearms by a registered dealer may be made unless a licence is produced. The licence costs 10s a year. In addition every person who possesses a gun with some few exceptions, must take out. a gun, with some few exceptions, must take out a certificate which costs 5s for the first year, and 2s 6d a year afterwards. It is renewable

every three years. See ARTHLERY
The Gunmakers' Company is one of the
smallest livery companies of the City of London.

Small type of vessel carrying Gunboat draught, it is intended for operations in shallow coastal waters or rivers. Gunboats were formerly of value for patrolling the large rivers of China and Africa, but they have been Gum in Australia, they grow to an enormous height with a corresponding girth, and specimens over 500 ft high and 80 ft in circumference have been known. The timber and the bark are both valuable, they also produce a resinous juice. The blue gum tree,

Guncotton Explosive compound, also known as pyroxylin or nitro cellulose It consists of highly nitrated cellu lose prepared from cotton waste, which is soaked in a mixture of sulphuric and nitric acids diluted with about 8 per cent of water and afterwards washed and dried It is used with nitroglycerine in making smokeless powders and cordite, also in blasting explosives **smokeless** Guncotton has the advantage over gunpowder in its smokeless combustion, rapidity of action and resistance to moisture

Gunmetal Bronze alloy Consisting typically of 90 per cent of copper and 10 per cent of tin, it thus approximates to the composition of ancient bronze It was used formerly for making cannon, hence the name, and is employed now for castings of bearings and other parts of machinery bolts and fittings, and some kinds of pumps Usually the composition of modern gun metal averages about 86 per cont of copper, 10 per cent of tin and 4 per cent of zinc, the latter being sometimes replaced by lead for bearings

Gunnersbury District of Middlesex It is 13 m from Lon don, on the L MS and District Rlys Gunners bury House was the residence of Amelia daughter of George II Later the estate, on which a new house was built became the broperty of the Rothschild family After the Great War it was bought by the councils of Acton and Ealing, and made into a public

Gunpowder Oldest known explosive It consists of a mixture of saltpetre, charcoal and sulphur, in varying proportions according to the purpose for which it is required For firearms it has been largely superseded by smokless powders, but it is still used for blasting purposes and in some kinds of sporting cartridges. The charcoal product is subtiled from used in making gunpowder is obtained from dogwood, alder or willow but in Germany coke from lignite has been used instead of the dearer charcoal

Gunpowder Plot Plot to blow up the Houses of Parliament on Nov 5 1605, the day on which James I was to open Parliament The plot had been concocted by a group of discontented Roman Catholics, but one of these francis Tresham, had sent a warning to contented Roman Catholics, but one of these Francis Tresham, had sent a warning to a friend in Parliament, Lord Mounteagle This led to the discovery of Guy Fawkes, a brave but desperate soldier in the cellars Fawkes was tortured and executed, and the other conspirators, including Robert Catesby, were captured later and executed Many books and pamphlets have been written about the plot. The plot made a great impression in the country and since then Nov 5 has been commemorated by the lighting of bonfires and by firework displays Since then, too, the vaults under the Houses of Parliament are always searched before the opening ceremony

scarched before the opening ceremony

Gunter Edmund English mathematician Born in Hertfordshire in 1581 he was educated at Westminster School and Oxford and in 1615 was made vicar of S George's Southwark Appointed Professor of Astronomy at Gresham College 1610 he was the inventor of several useful mathe matical devices known by his name. These include Gunter's chain 22 yds long and of 100 links which is used in surveying Gunter s scale used in trigonometry and navigation, tiunters quadrant for estimating altitudes.

and time, and Gunter's line, a logarithmic line He died Dec 10, 1626

Gurkha Name used for certain tribes who live in Nepal They appear to have settled in Nepal in the 16th century Owing to their fighting qualities they are recruited for the Indian army, in which there are several Gurkha regiments Their enlist are several Gurkha regiments ment is regulated by an agreement between Nepal and the Government of India chief weapon is a heavy curved knife called the kukri

Gurnard Family of fishes allied to the bullheads They have spiny, armoured heads, crawl over the sea floor on six sensitive, finger like feelers, and emit grunt like sounds when captured British coasts yield the red gurnard, the grey gurnard, and, less commonly, the streaked and lanthorn gurnards, besides the great sapphirine and piper gurnards, which sometimes weigh as much as 5 lb

Name of a famous family of bankers It appeared in Nor Gurney folk in the 12th century and in the 17th became associated with the Quaker movement John Gurney became a merchant in Norwich and his sons, John and Henry, became bankers in that city A later member of the family was Joseph John Gurney famous as a philan thropist He was the brother of Elizabeth Fry and his home life at Earlham Hall is described in The Gurneys of Earlham by A Hare Ho

Joseph J Gurney had a brother, Samuel, who was associated with the London banking firm of Overend, Gurney & Co which failed in 1806 This did not include the bank in Norwich, which, in 1806, was amalgamated with Barclay's Bank

Gurney Name of a family of shorthand writers Thomas Gurney (1705) 1770) was born in Bedfordshire and was for a time a schoolmaster In 1737 he was ap pointed shorthead writer at the Old Bailey, London, the first appointment of its kind He also became shorthand writer in other courts of justice and in the House of Commons He published, in Brachygraphy, a description of his system He died June 22, 1770, and was succeeded by his son, Joseph (1744 1815), who carried on the business

Joseph's younger son, William Brodie Gurney (1777 1855) was, in 1813 appointed official shorthand writer in the Houses of Parliament, and the family retained that position until the 20th century His son, Joseph Gurney (1804 79) took over the work in 1849, and, on his resignation in 1872, the post passed to his nephew, W H Gurney Salter On the latters retirement the position passed away from the

family

Gusher Term used for an oil well From these the oil spurts out without assistance as soon as the supply has been The flow from some of the American struck The flow from some of the American gushers is enormous sometimes as much as 50,000 barrels in a day. If it is desired to stor the flow, the wells are closed by an elaborate

the flow, the wells are closed by an elaborate process called capping
Gustavus Name of five kings of Sweden
Gustavus Adolphus The first two belonged to
the house of Vasa a name given to Gustavus
a son of Eric, a Swedish nobleman Born
May 12 1496, he wen fame in fights with the
Dancs who under his leadership were driven
from Sweden The people then chose him as
their king in 1523 and later made the crown

hereditary. He did a good deal for his country which, under him, adopted the reformed religion. Gustavus died Sept 29, 1560 Gustavus III. was king from 1771 to 1792

Owing to his love of French customs and his extravagance, he was very unpopular and was shot in Stockholm, March 29, 1792 Gustavus IV, a son of Gustavus III, became king when only 14 years old After an unprosperous reign, he was dethroned in 1809 He lived mainly in Switzerland until his death, Feb 9, 1837

Gustavus II. King of Sweden, known as Gustavus Adolphus A son of King Charles IX, he was born in Stockholm, Dec 9, 1594 When quite voung he began to share in the government and, in 1611, on his father's death he became the third king of the Vasa family Much of his reign was spent in warfare, but he found time to improve the state of his country, which was

Gustavus is chiefly famous as a soldier Under his direction the Swedish army became Under his direction the Swedish army became remarkably efficient, proving its worth in wars conducted by the king, who forced Denmark to surrender territory taken from Sweden, and compelled Russia to give him part of Finland and Livonia Later he was equally successful in his struggle with Poland. In 1630, having won for himself the reputation of the first soldier in Europe, Gustavus led his experienced army into Germany to excit the Protestants. soldier in Europe, Gustavus led his experienced army into Germany to assist the Protestants in the Thirty Years' War For two years he dominated the scene, winning one victory after another, and changing the fortunes of the struggle His two greatest victories were Breitenfeld, Sept. 17, 1631, and Lützen, Nov 16, 1632 At Lützen he was killed. Gustavus left his throne to his only child, a daughter, Christina

daughter, Christina
Gustavus V. King of Sweden A son
July 16, 1858, and served for a time in the
army In 1907 he became Ling Gustavus
married in 1881 a daughter of the Grand Duke
of Baden Their family consists of two sons,
the Crown Prince Gustavus Adolphus, and
William, Duke of Södermanland. The former
marned, firstly, Margaret, daughter of the
Duke of Connaught, and secondly, in 1923,
Lady Louise Mountbatten. By his first wife
he had five sons

he had five sons Gut Tough, semi-transparent material pre-pared from the intestines of sheep and other animals It is used for various purposes The intestines, after being cleaned, scraped and washed, form the coverings for sausages, or, cut into strips which are spun or twisted, are used for violin strings, cords for tennis rackets, etc Silkworm gut, employed for dressing the hook ends of fishing tackle, is prepared from the glutinous secretion of the silk glands of the silkworm.

Gutenberg Johann German printer Born about 1400, at Mainz, he became an artisan at Strasbourg, where he worked on an idea that had come to him, nothing less than the printing of books from movable type Returning to Mainz in 1448, he obtained money from Johann Fust and set up a printing press Some work was done, but it is not certain that all the books attri-

Guthrie Sir James Scottish painter.

1859, and educated at Glasgow University, he studied art in London and Paris He became a member of the Glasgow School of the Royal Scottish Academy. He had been an associate since 1838 and a member since 1892 At first a painter of subject pictures, he later concentrated on portraits The Funeral in the Highlands, To Pastures New and Schoolmates are among the best known of his subject paintings He died Sept 6, 1930

Guthrie Thomas Scottish divine Born July 12, 1803, he was educated at the University of Edinburgh and in Paris He became a minister in an Aberdeenshire village, and was chosen minister of the Old Grevfriars Church in Edinburgh in 1837 In 1840 he moved to S John's Church In 1843 Guthrie followed Chalmers in leaving the established church. A church, Free S John's was opened for him and there he remained until his retirement in 1864 He was moderator of the church in 1862 and for some years edited The Sunday Magazine He died Feb 24, 1875 His son, Charles John Guthrie (1849-1920) became a judge of the Court of

Session as Lord Guthrie

Guthrum Leader of the Danes In 871
or earlier he appeared in
England, where he won several successes over Alfred the Great In 878, however, Alfred was victorious at Ethandun, and he and Guthrum made the Treaty of Wedmore by which England was divided between them Guthrum became a Christian and reigned over the Danelagh until his death in 890

Brownish red sub-Gutta Percha stance which exudes from the stems of certain Ma avan trees Formerly Palagurum gutta was the chief source of supply, but, owing to reckless destruction, it is now only met with in botanic gardens, gutta percha being obtained from other species and the allied payena leern Gutta percha is tough, inclastic, plastic at 149°F, and less resilient and durable than rubber It is used for insulating cables, for belting and for

acid-proof vessels
Thomas Guy Thomas English bookseller and founder of Guy's Hospital Born in Southwark, about 1645, and educated at Tamworth, he was apprenticed to a London bookseller In 1669 he started in business for himself. He was M P for Tamworth, 1695-1707 He died Dec 27, 1724

Guy was very successful in his business and increased his fortune by the judicious buying and selling of South Sea shares His charities and selling of South Sea shares His charities included gifts to Tamworth, where he built a town hall and some almshouses, and gifts of money to S Thomas' Hospital and Christ's Hospital, London He set apart nearly a quarter of a million for the building and endowment of the hospital in Southwark that bears his name This is one of the largest of the London hospitals. It has over 600 beds and is equipped with everything to make it to is equipped with everything to make it a medical school of the first rank

Guyon Madame French mystic Jean Marie Bouvier de la Mothe was born April 13, 1648, and in 1664 married Jacques Guyon He died in 1676 and his widow, now wealthy, gave her time to philanthropic work She began also to study and practise the destrine of quicking and the study and the s buted to Gutenberg were from his press, indeed, printing was probably done in rough fashion before his day, but the value of his widow, now wealthy, gave her time to philanthem and the died about 1468 In 1901 a Gutenberg Museum was opened at Mainz

GuyOII Marie Bouvier de la Mothe was born April 13, 1648, and in 1664 married Jacques Guyon He died in 1676 and his widow, now wealthy, gave her time to philanthem thropic work She began also to study and practise the doctrine of quietism, a kind of mysticism. For this she was expelled for For this she was expelled from mysticism

Geneva, so, in 1686, she settled in Paris where she exercised a good deal of influence was, on account of her teaching, imprisoned in 1688 for a short time, and was again a prisoner from 1695 to 1702 She died at Blois, June 9, 1717 Madame Guyon wrote a good many books explaining her doctrine She ranks as one of the leaders of modern mysticism

Gwallor State of India It is in the ruled by a maharalah It covers 26,350 sq m and much of it is forest The capital is Lash kar Pop (1931) 3,523,070, nearly all Hindus It is in the rency and is The state, which was once part of the great Maratha empire, came first under British influence in 1782

Near Lashkar is Gwallor city, the old capital This has ruins of Jain and other temples, a palace, and several other buildings of historic interest Overlooking it is the fort of Gwallor, restored in 1886 It is 65 m from Agra with which it is connected by railway

Gwynn Nell English actress, mistress of Charles II Born probably in London, Feb 2 1650, Eleanor, or Nell, Gwynn became an orange girl at the Theatre Royal, Drury Lane, London She first appeared as an actress in 1665, and continued on the stage an actress in 1665, and continued on the stage until 1682, being very successful in comedies of a somewhat vulgar kind In 1669 she became the mistress of Charles II, and gave birth, May 8, 1670 to a son, Charles, who was later created Duke of St Albans A second son, James was born in 1671 She died of apoplery in 1687, and was buried at S hiartin s in the Fields London

Gymkhana Miscellaneous sports dis play It originated in Indian military stations, apparently about 1861, to relieve the monotony of station life

Indian military stations, apparently about 1861, to relieve the monotony of station life for both officers and men. It began with pony races at catch weights and afterwards included other competitions, serious and amusing, on foot, bleycle and horseback

Gymnastics Athletic exercises for from were practised by the Grecks, who attained a level of physical excellence never since surpassed After a period of decline, the practice of gymnastics was revived in many European countries early in the 19th century and under one form or other is now part of the educational system, for both boys and girls in Great Britain and other countries It is also an important part of the training of men in the fighting services

There are in the main two kinds of gym na-ties In one apparatus, such as parallel and horizontal bars vaulting horses, Indian clubs ladders ropes rings etc., is required In the other which is known as Swedish drill or the Swedish system, from its origin in that country little or no apparatus is needed Lurhythmics is a form of gymnastics in which

music plays a part

A gymnasium is a place fitted with apparatus for symnastic exercises. To day these are provided in most schools and are found in training centres of all kinds. The Germans used the word for a school for higher education

Gympie Town of Queensland. It is on the railway, 90 m from Brisbane and is the centre of a mining district in which gold and other metals are produced. Its port is Maryborough, about 40 m away top (1931) 9 592

special aliments of women Ancient records show that it was a specialised branch of medicine over 3000 years ago Improvements are largely due to Sir J Y Simpson (1811-1870) of Edinburgh (who introduced chloroform), and it has since benefited by modern methods of operative surgery

Gyp In the university of Cambridge the usual name for a college servant. The

Oxford equivalent is scout

Gypsies Nomad people They are be licred to be of Indian origin, and entered Europe early in the 15th century They are now found in most of the countries They are now found in most of the countries of southern Europe, especially, perhaps, in Hungary the Balkan countries, Italy and Spain There are some thousands of them in England In 1931 a permanent camp for the gypsics was opened in Surrey They live in caravans and earn a livelihood as tinkers, makers and sellers of basketware and in other ways. Many of the women tell fortunes The care cypsy has a tawy skip, black hair. true gypsy has a tawny skin, black hair, lustrous eyes and gleaming teeth They have their own customs and speech and are very superstitious They call themselves Romani and in Italy are known as Zingari

Gypsophila Hardy plant also known flower With slender stems and sprays of the white flowers, it is grown chiefly for cutting, being in table decoration, or bouquets, frequently mingled with other flowers, e.g., sweet

peas

Gypsum Mineral, a hydrous sulphate of lime, occurring in nature in several different forms. In the massive state, it is a soft, white material, or reddish-brown in impure varieties It occurs in England in large beds in Triassic marls, associated with rock salt, and in Tertiary strata near Paris It also occurs as alabaster, a semi-crystalline variety, or in fine crystals, as scienite, and in fibrous form, as satin spar Gypsum is used for making player of Paris and as a top for making plaster of Paris and as a top dressing for soils

Gypsy Moth European moth, Porth-tria dispar Introduced into the USA, it became a pest in woods and orchards around Massachusetts about 1885 The larvae sometimes defoliate the plants but are controlled by suitable poisons, while parasites and predators from Europe have

proved beneficial

Form of aeroplane In the Gyroplane form of aeropiane in the form known as the auto giro, invented by Sr do la Cierro, the fixed wings of the normal aeroplane are replaced by wings set round a vertical axis about which they are free to revolve while the plane is in notion This machine cannot remain station ary in the air, but cannot stall, and lands at a

Gyroscope Mechanical device de-signed to illustrate the dynamics of rotating bodies The name was given by Foucault in 1852 The commonest example is the gyroscopic top which consists of a heavy fly wheel revolving about an axio at right angles to the plane of the wheel within a brass ring. The wheel is set spinning apidly, the direction of its axis romaining unchanged unless some other force intervenes. Many gyroscopic devices are used for stabilisher nurposes, such as the gyro compuss, the Its port 14 Maryborough, about 40 m away 1-ing purposes, such as the gyro compass, the gyro-directing mechanism for torpedoes, and the gyro-governor, in which a gyroscopic regulator controls the speed of an engine

AAKON Name of seven kings of Norway The first reigned from about 940 to 961 and was called the Good He passed his early life in England The succeeding five were comparatively unimportant

Hankon vii was a son of Frederick VIII, King of Denmark Born Aug 3, 1872, he married in 1898 Mand, daughter of King married in 1898 Edward VII In Edward VII In 1905, on the separation of Norway from Sweden, he was chosen king and he took the name of Haakon instead of his own name, Charles He was crowned, June 22, 1906 His heir is his son, Olaf, who married a

princess of Sweden

Haarlem Town and river port of the Netherlands In the province of North Holland, it is 11 m from Amsterdam, with which it is connected by railway The chief buildings are the old church, with its lofty tower, the meat market, now used for municipal purposes, the weigh house and several nurseries The town hall contains a valuable collection of paintings. The River valuable collection of paintings. The River Spaaren flows through the town and is used for shipping Haarlem is a centre of the bulb growing industry, and from here millions of bulbs are exported Printing is another in-dustry Pop (1932) 122,386

Habakkuk One of the minor prophets of the Bible He lived about 600 BC, and one tradition about him is that he was carried to Babylon by an angel in order that he might furnish Daniel with food His book consists of a prophecy directed against the Babylonians, for whom he pleads with God, and a lyrical poem about the divine majesty

Habeas Corpus Term meaning "you body" used in English law Several Acts of Parliament begin with these words, the most famous being the one of 1679 Its object was to prevent persons being kept in prison without to prevent persons being kept in prison without being brought to trial, a practice frequently resorted to in the 16th and 17th centuries Under the Act of 1679, if a person is so detained, a writ can be issued to his gaoler ordering him to bring the prisoner for trial to a certain place on a certain day The writ can also be issued if a child is kept forcibly can also be issued if a child is the forcibly can be the second of the control of away from its parent or guardian. In times of disorder the Habeas Corpus has been suspended so that suspected persons could be imprisoned and kept without trial

Haberdasher Name of a retail trader who sells small wares and articles accessory to dress and furniture

He is usually a draper also, and the tendency is for that term alone to be used

The Haberdashers' Company is one of the twelve livery companies of London. Its hall is in Gresham St, and it has a large income much of which is set aside for the maintenance of schools and almshouses The company has schools for boys at Hatcham and Hampstead, and for girls at Acton and Hatcham

Hackenschmidt Georges wrestler Russian born in 1878, and soon became famed for his opera, Haddon Hall strength and skill as a wrestler After de- Liades In Gr feating many rivals in catch-as-catch-can con- Hades

tests on the Continent, he came to England in 1901 and on the music hall stage met some of the foremost wrestlers of the day On April 4, 1908, in a bout with Gotch at Chicago, after wrestling for two hours, Hackenschmidt refused to continue and forfeited the world's championship

Hackney Breed of horse It mingles thoroughbred with English shire or cart horse strains, and is used for riding and driving sometimes it is kept for riding and driving sometimes it is kept for hire. The name is often shortened to hack. Compact, 14 hands and over, it has good action and disposition There is a Hackney Horse Society for promoting the breed and shows are held

The Hackney cab, now almost obsolete, was so named because it was drawn by horses of

this Lind

Hackney Borough of London, one of the 28 in the county. It lies to the north east of the city The open spaces include Hackney Marshes, Hackney Downs and part of Victoria Park Pop (1931) 215,380.

Haddington Burgh of East Lothian (Haddingtonshire), also the county town It is on the Tyne, 18 m. from Edinburgh, on the LNE Rly Mrs. Carlyle is buried in the churchyard John Knov, who was born near, gives his name to the Knov Institute A 15th century bridge crosses the river Pop (1931) 4405

Haddingtonshire County of Scotland Land, also called East Lothian In the south-east of the country it has a coastline on the North Sea and the Firth of Forth Its area is 267 sq m Haddington is the county town. Other places are North Berwick, Dunbar and Gullane The county is chiefly an agricultural area, but it has some coal mines In the south are the Lammermuir Hills Pop (1931) 47,389

Haddock Food fish of the cod genus the North Atlantic, it is recognised by the black patches above the breast fins and the black lateral lines. It averages 4 lb in weight, but may reach 17 lb and exceed 3 ft in length. it hugs British coasts in winter, spawning in spring, and is taken by mussel bait or trawling. It is eaten either freshly cooked or split, dried and smoked, when it is called Findon, or Finnan haddock Norway haddock and Jeru-salem haddock, both spiny-finned, are quite distinct varieties

Haddon Hall Derbyshire residence of the Duke of Rutland. It stands on the Wye, 2 m from Bakewell, and is one of the most historic houses in England Part of it dates from the 12th century The chief rooms are the long gallery and the banqueting hall The chapel is also noteworthy. Haddon belonged to the Vernons before passing to the Manners family after the elopement of the heiress, Dorothy Vernon, with Sir John Manners about 1580 Soon after 1700 the Manners family ceased to reside there, but after the Great War it was again made habitable and is now used as a residence by the Duke Sir Arthur Sullivan wrote an

In Greek mythology the god of the underworld, also called

Pluto Later, the word denoted the invisible an ancient monument in 1928 and parts of it, underworld itself, the abode of the departed those near Chesters and Housesteads, for conceived as situated within the earth, and bounded by the river Styx, over which Charon ferried the dead The Greek New Testament uses it for the Hobrew Sheel, or Gehenna, translated hell in the authorised version of the Bible, but frequently retained to Hode in the authorised version of the Bible, but frequently retained as Hades in the revised version, eq. Luke xvi

Hadfield Town of Derbyshire It is 187 m from London by the LNE Rly, and is 13 m from Manchester There are cotton manufactures The Derwent

rises near here Pop 6371

Hadfield Sir Robert Abbott English scientist. Born at Sheffield English Nov 29, 1859, he entered business there, and in the iron and steel industry he soon became a leading figure. He built up the business of Hadfields, Ltd and was master cutler in 1899 He devoted much time to the technical side of the industry and his inventions were of the highest importance For these he was elected FRS, and received numerous other elected FRS, and received numerous other honours both at home and abroad In 1908 he was made a knight, and in 1917 a baronet Hadfield has written a great deal on metallurgy

Hadham Two villages of Hertfordshire, Great and Little Great or Much Hadham is 4 m from Bishop Stortford and 26 from London, on the L N E Rly The Bishop of London had a palace here at one time Little Hadham, which is quite near possesses a 12th century church Here is Hadham Hall, an Elizabethan building

Hadleigh Village of Essex It is 5 m from Southend and is notable because of the farm colony founded here by the Salvation Army in 1891

Hadle1gh Urban district of Suffolk. It 70 m from London by the LNE Rly, and stands on the River Brett There are flour mills and malting works Pop (1931) 2952

Hadley Wood District of Middle from London on the LN1 Rly It is part of the urban district of Barnet

Roman emperor Hadrian Actius Hadrianus was born of Roman parents in A D 76 He became known ns a soldier and an administrator and having been consul in 108, he was selected by his friend and patron the Emperor Trajan as his successor. He relegaed from 117 to 138, on the whole successfully He abolished the farming of taxes and was responsible for other tartining of taxes and was responsible for other salutary reforms. He made no additions to the empire through which he travelled extensively. He visited Britain where he was re-ponsible for the wall called after him, and erected the famous villa near Tivoli of which the ruins still exist. He died in 138, having written a poem to his soul

Hadrian's Wall Defensive wall ex Solway Firth across England to Wallsend on Tyne It was built about and 122 by Hadrian and repaired by Severus in the 3rd century It was garrisoned by about 11,000 soldlers and posseed a number of large and small forts. The wall was 73 m long and its course may still be traced. It was the property along the property of the property by traced I reavations along it have revealed i oman coins potters etc in great abundance Here and there are substantial remains in the shape of forte and camps. It was clusted as l

example, are national property See Chesters

Haeckel Ernst Heinrich German solen 1834, he was educated at Würzburg, Berlin and Vienna, and became a doctor After practising for a few years, he settled at Jena as Professor of Comparative Anatomy and Director of the Zoological Institute His fame rests upon his writings on evolution, in which he firmly believed He wrote a book translated into English as The Natural Instern of Creation. into English as The Natural History of Creation, in which he showed that the descent of man from the ape was unbroken His most popular work, The Riddle of the Universe, explains the universe as brought about by purely natural causes, without the intervention of any divine

Power He died Aug 8, 1919

Haematite Most widely distributed of Haematite the iron oxides Haematite is a peroxide of fron containing in its purest forms 70 per cent of iron It is distinguished by giving a reddish streak when scratched, and occurs in black metallic crystals as 'specular iron,' dull red fibrous masses, or reniform masses with a radiate structure, and as red ochre an earthy variety Hacmatite is an important iron ore and is found in sedi mentary rocks in many parts of the world

Haemophilia Congenital tendency to from slight wounds or even spontaneously, as from the nose It is almost entirely confined to males, called bleeders, and is transmitted solely through the female line On this account tooth drawing and other operations are dreaded as the excessive bleeding is difficult to arrest and may prove fatal

Haemorrhage Escape of blood from a blood vessel It is arterial when an artery is injured bright red blood flowing in spurts rhythmically with the venous when a dark and beating of the heart steady stream flows from a vein and capillary when blood oozes gently out of the torn sur faces of wounds from the minute vessels connecting arteries and veins Bleeding can be controlled by pressing on the bleeding point pressing on the main artery supplying it, or applying a styptic according to the type of bleeding

Treatment Medical aid should be obtained at once The patient should be kept lying down near an open window with all tight clothing loosened No stimulants should be given until the bleeding is checked, but if he can swallow, he may be given ice to such. The body must be kept warm as for collapse (see SHOCK)

External haemorrhage can usually be checked by firm bandaging or by pressure on the artery on the side of the wound near the heart Never give stimulants until haemorrhage has ceased In haemorrhage from the socket of an ex-

tracted tooth make the patient rinse out the mouth with very hot water if the bleeding does not cease, add to the tumblerful of hot water a teaspoonful of powdered alum. The societ can be plugged with clean cotton wool leaving a surplus of wool outside the plugged part and the mouth should then be closed by means of a bandage under the chin and tied on top of the head

Hafiz Persian poet. He was born a Shiraz and lived in the 14th century his real name being Shams ad-din Mohammed He taught philosophy at Shiraz

sophy of the Sufi sect. They have been translated into English

Hafnium Very rare metallic element It has the atomic weight 1786 and the symbol Hf It is related in many ways to the metal zirconium, and was discovered in 1923 in the mineral zircon, a structural cilicate of sire time. natural silicate of zirconium Little is known of its properties and compounds

Hagar Sarah's Egyptian handmaid. She hecame Abraham's concubine and the mother of Ishmael Sarah caused her banishment to the wilderness, whence later she returned to Abraham She was finally sent away (Gen. 2012)

returned to Abraham She was finally sent away (Gen xi, 9-21)

Hagen at Rochester, New York, in 1893, he became a professional golfer In 1914 and 1919 he won the open championship of the USA, and in 1922 he won the open championship of Great Britain, as he did also in 1924, 1928 and 1929 One of the world open championship in 1928 and 1929, the open championship in 1928 and 1929, the open championship of France in 1920, of Belgium in 1924, and of Canada in 1931 In USA Hagen won the open championship in 1921, and or won the open championship in 1921, and in 1924, 1925, 1926, and 1927, and the professional championship in 1914 and 1919 He was in the successful Ryder Cup team in 1935

Hagenbeck Carl German trainer of animals He was born at Hamburg in 1844, the son of a man who did a little business in buying and selling wild animals Carl took this up with avidity, travelled a good deal and showed in public animals he had trained In 1897, at Stellingen, near Hamburg he opened a zoological garden on new principles, keeping the animals, as far as possible, in the open Hagenbeck died in 1913, but the gardens still bear his name

Haggai One of the minor prophets of the dold Testament His book contains four prophecies, designed to encourage Zerubbabel and his compatriots to rebuild the temple at Jerusalem Their keynotes are the relterated counsels, "be strong" and "consider" They are dated in the second year of Darius Hystaspis, 520 BC

Haggard Sir Henry Rider English novelist Born at Bradenham, Norfolk, June 22, 1856, he was educated at Ipsyrch Grammar School He began his career as an official in the Transvaal, whither he went in 1875 In 1879, having returned to England, he became a barrister, and in 1882 he published Cetevayo and his White Neighbours In 1884 he published Daten, the first of his novels, and this was followed by others, most of which were very successful The best known are Shc, 1887, which created quite a sensation, King Solomon's Mines, Jess and those associated with the name Mines, Jess and those associated with the name of Allan Quatermain Others are Colonel Quartleh, VC, Nada the Lily, Montecuma's Daughter, People of the Mist, Joan Haste, and Ayesha With Andrew Lang he wrote The World's Desire Haggard, himself a landowner in Suffolk, took a great interest in agricultural problems, on which he wrote several books In 1910 he was knighted, and he died May 14, 1925

until his death about 1388 His tomb may still be seen near the city

The poems of Hafiz are short lyrics, somewhat sensuous, and embody the mystic philosophy of the Sufi sect. They have been transis placed in a cleansed sheep's stomach (called the haggis bag) which is then sewn up and left to boil for three hours During the first halfhour it should be pricked with a needle

Hagiology Historical research and criti-cism specially applied to the lives of saints. Hagiology includes all biographies of saints and martyrs. The oldest is that of Eusebius The Jesuit, Heribert Ros-weyde, revised existing hagiologies and started the great collection called the Acia Sanctorum.

Hagley Village of Worcestershire It is the GW Rly Hagley Hall has been for some centuries the seat of the Lytteltons

Hague The Capital of the Netherlands. It is situated about 3 m. from the sea, and 14 m from Rotterdam, and is well served by railway lines. The legislature meets in the Binnenhof, in which is the famous well and the Famous The Poles of Page 1999. Hall of the Knights The Palace of Peace is an imposing block. The Maurits-Huis contains a fine collection of pictures once owned by the house of Orange There are many museums among them the famous Mesdag, and several libraries, including the valuable royal library. The Vvver is an ornamental lake in the middle of the city Near it is a large tower, formerly a prison There are some fine squares and spacious parks, notably the Willems Park where is an imposing national monument

In the city the sovereign has a palace, enlarged early in the 19th century, with large gardens To the east is the palace called the Huisten Bosch in a large park Near are the zoological gardens The Hague has an industrial quarter, and here are printing works and manufactures of earthenware motor-care

and manufactures of earthenware, motor-cars, furniture, etc Pop (1932) 449,614

For some centuries the Haguo was a residence of the counts of Holland In 1814, after it had been in French possession for a few vears, it was made the capital of the new

kingdom of the Netherlands HAGUE CONFERENCES In century the Hague became popular as the seat of international conferences. The most important was the peace conference called by the Tsar Nicholas II in 1899, and the one that followed it in 1907 At the earlier of these the Hague Tribunal was established

Hague Tribunal Short name for Permanent Court of International Justice which sits at the Hague It was founded in 1899, and a building the Palace of Peace, was erected for its work by Andrew Carnegie and others Its judges are now appointed by the League of Nations for 9 years and hear cases between sovereign states that are referred to them

Hahnemann Samuel Christian Fried-rich German physician Born at Meissen, April 10, 1755, and educated at Leipzig, he maintained that like must be cured by like drugs must be used in small in Suffolk, took a great interest in agricultural problems, on which he wrote several books in 1910 he was knighted, and he died May 14, 1925

Haggis Scottish dish of French origin It consists of the heart, lungs and liver, finely minced and half the liver grated, Haifa Scaport city of Palestine, situated resigned with the Unionist Government and Mt. Carmel Under British mandatory rule it hat. Carmel Under British mandatory full has developed a flourishing export trade in Hauran wheat and Trans Jordanian products One of the two ocean terminals of the Iraq Potroleum Company s pipeline is at Haifa Its fine modern harbour was opened to shipping in 1933 Pop (1931) 50,533

Haig Earl British soldier Born June 19, 1861 Douglas Haig belonged to a family engaged in the distilling business He went to Olifton College and Brasenoso College, Oxford, afterwards passing through Sandhurst into the army, 7th Hussars He took a course at the staff college and served in the Sudan in 1898 in 1900 02 he was in South Africa, where he was Chief of the Staff to Sir John French, and later commanded some columns in the guerrilla warfare

columns in the guerrilla warfare
By now Hals had made a reputation and
during the next 10 years he filled important
posts From 1903 06 he was Inspector General
of Cavalry in India from 1906 07 Director
of Military Training in England, from 1907 00
Director of Staff Dutles, and from 1909 12
again in India, this time as Chief of the Staff
In 1912 Sir Douglas Halg as he had now
become, was appointed to the Aldershot
Command. This meant the leadership of the

Command This meant the leadership of the army corps there and in Aug, 1914 he went with it to France He commanded the first corps at Mons and through the terrible winter corps at Mons and through the terrine winter months, leaving it in Jan, 1915, to take over the first army He led this at Loos, after which, in Dec, he succeeded French as Commander in-Chief on the western front This onerous position he held to the end of the war, being responsible for the Battle of the Somme (1916) the indecisive engagements of 1917, and, in 1918, the final offensive which drove back the Germans and finished the struggle Honours were showered upon Haig at the

Honours were showered upon Haig at the peace He was made an earl given the Order of Merit and voted £100 000 Bemersyde the old home of the Haigs was presented to him unomicially He died in London Jan 29, 1928, and was buried in Dryburgh Abbey Since 1917 he had been a field marshal He married the Hon Dorothy Vivian and left an only son who succeeded to his title, Earl Haig of Bemersyde Memorials to Haig took the form of houses for ex service men to cost £500,000 a statue in Whitchall and Halg House at Ypres

Halleybury English public school It and originated as a collegt, opened in 1806 by the East India Co, for educating boys for its service In 1802 the company having been dissolved the buildings were negulized for a public school and have since been much en larved There is accommodation for over 500 boys.

Hailsham Market town of Sussex at the S Rly and 7 m from Eastbourne It is an agricultural centre Pop 4600

Hallsham Viscount. 1872 Douglas McGarel Horn was the eldest son of the philanthropist Quintin Horn He was edu (ated at I ton and after some years in business became a barrister in 1902 In 1922 he was became a barrister in 1902 of Marylebone was knighted. was made Attorney General and was knighted He lett office in 1923 but returned in 1921 and was Attorney General until made Lord Chancellor and a peer in 1928 In 1929 ha

resigned with the Unionist Government and acted as one of the Opposition leaders in the House of Lords In 1929 he was made a vis count, in 1931 joined the National Government as Secretary for War and became Lord Chancellor again in Baldwin's Ministry in June and Nov , 1935

Nov, 1935

Hainault Province of Belgium, once an independent country. It is the district around Mons and Charlero! The inhabitants are chiefly Walloons. For some centuries Hainault had its own counts, the first appearing about 900. Later it became part of Burgundy and then of the Netherlands. An open space in Essex is called Hainault Forest. It adjoins Epping Forest and covers 800 acres, but only about 250 acres are forest proper. It was bought for the public and on it is a golf course. Later Flamentous outgrowth from the

Hair Fliamentous outgrowth from the skin, forming the coat of mammals, and corresponding to the feather in birds. The word applies also to analogous outgrowths. The word applies also to analogous outgrowths from the bodies of plants, insects and other organisms Each hair is secreted by a single papilla in a skin follicle, with fat forming glands, and comprises a bulbous root, shaft and point It contains neither blood vessels nor nerves, but coloured pigment, the failure of which produces grey hair The absence of hair is known as baldness (q v)

Commercially hair is much used The finer kinds, such as the hair of goats etc are used for making shawls and other garments. The hair of horses, being coarser, is used as a stuffing and padding for furniture Other kinds of hair are also used for upholstery and hair forms the stuffing of a great number of mat-tresses. The hair of the cow is used for making

felt for roofing and similar purposes

Hairdressing Method of dressing the hair The word is Hairdressing Method of dressing the hair The word is used chiefly in connection with women's hair, but to a lessor extent men's hair is dressed although the traders who attend to this are usually called barbers, because their duties include attention to the beard

Fashlon in hairdressing has varied very much with various countries and ages, but amongst civilised and semi-civilised peoples attention has always been paid to it. The Great War was partly responsible for a drastic change in the method of dressing womon's hair, principally owing to the fact that the majority of women began to wear the hair short. This meant more frequent visits to the hair stream and the consequences the womon's hairdresser and in consequence the women's side of the business enjoyed unprecedented prosperity

In Great Britain hairdressing is an organised calling It has its trade organisations and papers including The Hairdressers It erlip Journal. There is a Hairdressers Registration Council at 20 Cranbourne Cardens London, NW 11 and a Hairdressers Parliamentary Committee for looking after its interests Since

1030 hairdressors have been compelled by law to close their shops on Sunday
Hatt Island of the West Indies Somotiles called Hayti or San Domingo, it lies between Porto Rico and Cuba the three disiding the Atlantic Ocean from the Caribbean Sea It is 400 m long and covers 29,500 eq m
The area is mountainous, but the soil is gener ally fertile Much of the land is forest. island is divided into two republics, Halti in the west and San Domingo in the cast Columbus who discovered it in 1492, called it

Hispaniola In 1640 France took possession of the island, and it remained French until 1804 when a negro republic was established In 1844 the negroes of the east broke away and formed the republic of San Domingo The slaves were freed in 1789, an attempt by Napoleon to revive the old system falled

Haiti Republic of the West Indies It occupies the western part of the island of the same name. It covers 10,204 sq m Port au Prince is the capital and chief seaport, other towns are Cape Haitien, Caves and Jacmel Cocoa, coffee, sugar and other tropical products are grown The people are chiefly negroes and mulattoes, they speak a dialect called Creole French and in religion are Roman Catholics

Since 1915 the republic has been under the protection of the United States It is ruled by a president and a council of state, the executive being in the hands of secretaries of state, except certain branches, finance and the constabulary, for instance, which are under American advisers The banking system is also in American hands The unit of currency is the gourde, a gourde being equal to one fifth of the American dollar There are some good roads and a few miles of railway in the republic Pop 2,500,000

Hake Fish of the cod family (merluccius vulgaris) Having no barbels and fewer dorsal and anal fins than cod, it may reach 3 ft in length and surpass 30 lb in weight It is caught in pilchard nets, especially at night, and in trawlers in the North Atlantic, where is its chief home It is a food fish

Hakluyt Richard English writer Born in Herefordshire about 1552, he was educated at Westminster School and Oxford He lectured on cosmography at Oxford and began to collect information about the voyages of English and other sailors In 1583 he published Dirers Voyages Touching the Discovery of America Having been ordained, he was a chaplain in Paris from 1583 to 1588 In 1590 he was chosen rector of Netheringsett in Suffolk and in 1602 Prebendary of Westminster He died Nov 23, 1616, and was buried in Westminster Abbey Hakluyt's chief work is the collection called

Hakluyt's chief work is the collection called Principal Navigations, Voyages and Discoveries of the English Nation He left many manuscripts, some of which have been published by the Habluyt Society, which was founded in his honour in 1846

Halbert Weapon used by solutions 14th and 15th centuries Weapon used by soldiers in the was a combination of the pike and the are and had a staff about 5 ft. long The Yeoman of the Guard still carry halberts, but they have not been used in warfare since early in the 16th century Another form of the word is halberd the soldiers using it were called halberdiers

Haldane Name of a famous Scottish Robert Haldane of Cloan, a lawyer, married Mary Burdon Sanderson, a remarkable woman who lived to be almost a centenarian Their eldest son was Viscount Haldane (qv) Other sons were John Scott Haldane, an eminent scientist, especially interested in mining matters, and Sir William Stowell Haldane, a lawyer and one of the Development Commissioners Their daughter Elizabeth Sandaron Holdane. daughter, Elizabeth Sanderson Haldane, wrote books, and in 1918 was made a Companion of Honour

John S Haldane's son, John Burdon Sanderson Haldane, made a reputation as a scientist.

In 1922 he was appointed reader in biochemistry in the University of Cambridge, and in 1927 head of the genetical department of the John Innes Horticultural Institution

A distant relative was Sir James Aylmer Lowthrop Haldane (b 1862) He was a soldier who served on the western front during the Great War in command of a division and

the Great War in command of a division and an army corps, and was Commander-in-Chief in Mesopotamia, 1920-21

Haldane Viscount British statesman Born, July 30, 1856, he was Richard Burdon Haldane, a son of Robert Haldane of Cloanden, Perthshire For his education he went to Edinburgh Academy and then to universities in that city and in German Bearington in 1879 Germany He became a barrister in 1879 and practised in London, he was never a popular advocate, but his mental gifts made him very successful in chancery cases

In 1885 Haldane was elected Liberal M.P for Haddingtonshire and for 20 years, although a private member only, was a political force In 1905 he was made Secretary for War, and in that capacity he did great work, he created the Territorial Army, and organised the force that took the field in Aug 1914. In 1912 he became Lord Chancellor and a peer, but early in 1915 he resigned His acquaintance with Germany and the Germans made him suspect to many, and his retirement was inevitable

After the war Haldane appeared on Labour platforms and was soon a member of that party In 1924 he became again Lord Chancellor and also leader of the Labour Government in the House of Lords When the Government resigned he remained the party leader in the Lords, and he held that position until his death, Aug 19, 1928 Haldane never married.

Strenuous as was Haldane s political and prorestional life, it by no means occupied the whole of his versatile mind He kept up the study of philosophry and ranked among the leading philosophers of the day His ideas are expressed in The Pathway to Reality and other writings. Education was another of his interests. He was chairman of the Poyal interests He was chairman of the Royal Commission on the university of London and helped to found the newer English universities In 1929 his Autobiography appeared, in his lifetime he had published Before the War, a defence of his activities

Hale Urban district of Lancashire It is 10 m from Manchester, on the Cheshire Lines Rly, and is practically a residential suburb of that city In the churchyard is the grave of John Middleton, who was said to be 9 ft 3 ins high He died in 1623 Pop (1931) 10,669

George Ellery. American astronomer Hale George Ellery. American astronomer Born in Chicago, June 29, 1868, he was educated at Boston His first experience of astronomical work was gained in the obser-vatory at Harvard, and he soon became a director of an astrophysical observatory and professor of astrophysics. In 1895 he became director of the Yerkes Observatory, and in 1897 Professor of Astrophysics at Chicago He invented the spectroholiograph and in 1904 was appointed director of the great observatory at Mount Wilson, California He has edited The Astrophysical Journal, and written a good deal on his particular subject, astrophysics

Halesowen Urban district and market fown of Worcestorshire. It is 6 m from Birmingham, on the joint line of the L.M.S and G.W. Rlys. Iron and steel goods are manufactured. William Shenstone,

the poet, was born here Near are the remains of an abbey Pop (1931) 31,058

Halévy scholars Ludovic Halévy made his reputation as a dramatist. He died May 8, 1908 leaving a son, Elie Halévy Ho was born at Etrotat, Sept 6 1870, and became a professor in Paris He is known as a student of English history and institutions and his works Include The Formation of Philosophic Radical ism The History of the English People in the 19th Century, and The World Crisis of 1914 18, (1930), to give them their Fnglish titles

composer, Jacques François Fromental The Elie Halevy, was a professor of music in Paris and wrote many operas He died March 17,

1862

Halibut Fish the largest of the flatfish family (hippoglossus vulgaris) It is distributed round the northern coasts of Great Britain but is infrequent in the English Channel It is longer than the flounder sometimes surpassing 8 ft in length and 200 lbs in weight The eyes and dark colouration are on the right side The fish is a popular article of food and was at one time much eaten on holy days Its old name is holibut

Halicarnassus Ancient city of Asia the Carian coast opposite the island of Cos it was a Dorian colony, reaching its aeme under It was the Mausolus, who died in 353 BC birthplace of Herodotus and Dionysius

Halidon Hill Hill near Berwick on Tuly 19 1333 the Scots were defeated by an English army under Fdward III that was marching to take Berwick The Fnglish, on the hill, were attacked by the Scots who were driven back The forces on each side were small

Halifax County borough and market town of Yorkshire It is 7 m from Bradford and 194 from London standing at the union of the rivers Hebble and Calder It can be reached by both the LMS and LNE Rlys The Piece Hall, or market hall, dates from the 13th century

The industries of Halifax are the making of carpets woollen goods chemicals, machinery and toffee Pop (1931) 98 122 The Halifax Building Society is one of the largest in the

country

Halifax City and seavort of Nova Scotia and the capital of the province it stands on a harbour named after it one of the finest in the world and owes its importance to its site. It is \$37 m from Montreal and here both the CNR and the CPR have terminals. Dalhousie University is the chief of several colleges and schools.

The chief winter port of Canada, Hallfax has extensive docks from here ships go to the West Indice and across the Mantic as well as to other American ports Since 1758 it has been a mival station and a garrison town Here the Canadian Government which took over the naval dockyard in 1906 has eccommodation and stores for warships Apart from shipping the chief industries are ship building oil refining and certain manufactures There is some fishing and it has a broadcasting station (49 59 M.) Pop. (1931) 59 275

Halifax Marquess of English statesman and he died Aug 8, 1885

George Savile was a son of Sir William Savile
Hart In 1660 he was elected M P for Ponte fract and in 1668 he was made Viscount He was long president of the English Church Halifax the family estates being in Yorkshire

In 1660 he was made a viscount the first Sie of the Light Signal and he died Aug 8, 1885

His son Charles Lindley Wood, who became that I 1660 he was made a viscount the same states and he died Aug 8, 1885

His son Charles Lindley Wood, who became the large of the Lindley Oxford from the same and the same an

He took part in business of state and became prominent as the leader of those who objected to the proposed exclusion of James II the throne and for about four years (1881 85) was the chief adviser of Charles II. When James became Ling he was made Lord President of the Council, but he soon resigned and used his influence to check the sovereign's arbitrary acts to nullify the Declaration of Indulgence he wrote his famous Letter to a Dissenter

ne wrote his famous Letter to a Dissenter
He did not share in the invitation to William
of Orange, but as he presided over the Council
and the House of Lords at this time, he
it was who formally offered the crown to
William and Mary He was made Lord Privy
Scal by William but in 1689 he resigned and
returned to his seat Rufford Abbey, occasion
ally appearing in Parliament In 1670 he
had been made an oral and in 1682 a measure. had been made an earl and in 1682 a marquess He died April 5, 1695 His title became extinct when his son, William, the 2nd marquess died in 1700 A grandson was the great Earl of Chesterfield, (q r)

Halifax was a fine orator, but his chief fame is due to his writings and his position as the great advocate of moderation and compromise in politics His ideas on this subject comin politics His ideas on this subject are expressed in his greatest work. The Character of a Trimmer, the hero being himself He also wrote Maxim, of State the inatomy of an Equivalent, a life of Charles II and other books,

including a collection of aphorisms

Hallfax Earl of English title, now catinet The first earl was George Savile who was made earl in 1679 and marquess in 1682, but these titles became extinct when his son died in 1700 In 1714 Charles Montagu was made Earl of Halifax but in the next year the title again became oxtinct At once, however, it was given to his nephew, George Montagu, who was succeeded in 1730 by his son who married an heiress and took the name of Dunk He was Lord Lieutenant of Ireland, First Lord of the Admiralty and Secretary of State under George II and George IV IIIWhen he died, June, 8, 1771, the earldom again became extinct

Halifax Earl of English statesman Charles Montagu was born April 16 1661 a member of the family of the Earl of Manchester He went to Westminster School and Trinity College, Cambridge and in 1689 was elected M P for Maldon He was Chancellor of the Exchequer 1694 97, and First Lord of the Trassury, 1697 99 He was one of William III's most trusted advisers, and was concerned in the reform of the coinage and the foundation of the Bank of England Being a Whig he was in retirement during Anne s reign but he was again First Lord of the Treasury when George I came to the throne In 1701 he had been made a baron, and in 1714 he was made an earl, but very soon, Ma, 19, 1715 he died without sons

Halifax Viscount English title borne since 1866 by the family of Wood Sir Charles Wood Bart, was elected an WP in 1826 From 1846 to 1852 he was Chancellor of the Fxchequer in the Liberal ministry from 1855 58 he was First Lord of the Admiralty and from 1859 66 Secretary for India In 1866 he was made a viscount, and he died Aug 8, 1885

His son Charles Lindley Wood, who became the 2nd viscount, was born June 7, 1837, and ceducated at Fton and Christ Church Oxford

educated at Fton and Christ Church Oxford He was long president of the English Church

His son Edward created Baron Irwin was viceroy of India 1926-31 and made K G in 1931 In Jan 1934 he became Viscount on his lather's death

Hall Oliver English artist Born in London in 1869, he studied art there He became known by his etchings, and then by his landscape paintings, one of which "Shap Moors," is in the Tate Gallery, London In 1920 he was elected ARA, and in 1927 became an RA

Hallam Henry English historian A son born at Windsor, July 9, 1777, and educated at Eton and Christ Church, Oxford He entered the civil service, but found much time for writing His View of the State of Europe during the Middle Ages, is still valuable, but his Constitutional History of England, once a text book, is now obsolete This shows the author's Whig beliefs, also expressed in the articles he wrote for The Edinburgh Review A third hook is his Introduction to the Lightersters. A third book is his Introduction to the Laterature

A third book is his Introduction to the Literature of Europe in the 15th, 16th and 17th centuries He died at Penshurst, Jan 21, 1859
Hellam's son, Arthur Henry Hallam, is known for his friendship with Tennyson He died in Vienna, Sopt 15, 1833, being only 22 years old In his memory Tennyson wrote

In Memoriam

Hallamshire District of Yorkshire It the area around Sheffield One of the divisions into which that city is divided for sending members to Parlia

city is divided for sending members to Parlia ment is the Hallam division

Halle City of Germany It stands on the Saale, 21 m from Leipzig and is an important railway junction It is perhaps chiefly famous for its university, but in the 19th century it became a great industrial centre and new quarters sprang up all around the old town The university, founded in 1694, possesses a fine range of buildings which include a large library and an observatory Its medical school is notable. The town's oldest industry is salt mining. Other town's oldest industry is salt mining Other industries include the manufacture of machinery and confectionery, sugar refining, printing and malting Pop 194,600

Hallé Sir Charles English musician Born in Germany, April 11, 1819, he studied music in Paris and elsewhere In 1848 he settled in London and became a naturalised Englishman Hallé won a reputation by the concerts he gave in London and by his work for music in Manchester, where he founded the Royal College of Music and conducted a fine orchestra In 1888 he was knighted and he died Oct 25, 1895 In 1888 Halle married Wilma Neruda, the

widow of Ludwig Normann She, too, was a German by birth, and having studied music, became one of the leading violinists of the day

Lady Hallo died April 15, 1911

Hallelujah Hebrew word of praise identical with Alleluia It is a doxology in the synagogues, occurs in the Psalms and in the Jewish hymns and in the Palms and in the Jewish hymns and in the Moss (except in times of mourning) It was also in the first Prayer Book of Edward VI The Hallelujah Chorus is part of Handels Messiah Since 1743 it has been the custom for audiences to stand during its performance Halley Edmund English astronomer Born in London, Oct 29, 1656, he was educated at St Paul's School and Queen's College, Oxford Interested in astronomer. he went on voyages and journeys with

the object of extending his knowledge of that subject Having returned to England he wrote on sun spots, magnetism, and other phenomena, and worked with Newton, whilst another inand worked with Newton, whilst another in-terest was surveying to ascertain the nature of the tides In 1703 he was made Savilian Professor of Geometry at Oxford, and in 1720 Astronomer-Roval at Greenwich From 1713 to 1721 Halley was secretary of the Royal Society He died at Greenwich, where he had done valuable work on the planets, Jan 14, 1742, and was burled at Lee
HALLEY'S COMET In 1682 Halley ob-

HALLEY'S COMET In 1682 Halley observed the movement of the comet which since then has been named after him This returned in 1759, in 1835 and in 1910 Its period is therefore 75 or 76 years Its earlier appearances have been noted since 240 B O

Hall Mark Mark stamped upon articles of gold and silver plate. It is done at the Goldsmiths' Hall, London, or other assay offices to indicate the quality of the metal and other details The hall mark, in addition to showing the standard of quality, indicates the place where the assay has been done by some emblem such as a leopard's head for London It also gives the date, the year being shown by a letter of the alphabot, and the maker's initials Plate made between 1784 and 1890 also has a duty mark

Hallowe'en Scottish name for All the vigil of All Hallows, or All Saints' Day It is one of many Christian festivals grafted on ancient pagan ceremonies, and its super-stitious practices, e.g., divination by nuts, or by mystic midnight rites, are survivals of spirit and nature worship

Hallstatt Village of Austria It is on the lake of the same name, 32 m from Salyburg The chief industry is the working of the salt mines Hallstatt owes its main interest to the prehistoric cemetery uncarthed in 1846 No fewer than 3000 graves were found and an examination of the articles therein, which were of gold, bronze, fron and amber, showed that their occupants were men and women who enjoyed a fairly high measure of civilisation. They worked the salt mines, grew crops and possessed cattle. Their implements were of fron and the name has been given to the first part of the Lagrange. given to the first part of the Iron Age The early Hallstattian Age is from 850-600 BC and the later 600-400 BC

Hallucination Apparent perception of external object which does not exist. It differs from illusion, in which a sensation is misinterpreted. In either case belief in the reality of the object involves delusion. It usually affects sight or hearing or both, and may attend porsons who are normally sone, through sleeplessness or other brain derangement. It may also indicate insanity. The seeing of ghosts is best explained as an ballucination. explained as an hallucination

Halo Term in meteorology applied to the coloured ring, red inside and blue outside, sometimes seen round the sun or moon It is due to the refraction of light by small ice crystals in cirro-stratus clouds

In art a halo, or nimbus, is a disc or other symbolic form shown round the head of saints and divino personages

Halogens Chemical term for the clements fluorine, chlorine, bromine and iodine, which produce salts similar to common salt These elements form a wellnomy, he went on vovages and journeys with defined series of increasing atomic weights190, 35475 79916 and 126932 respectively, and their affinities for other elements increase or decrease in the same order

Hals Franz Dutch painter He was born at Antwerp between 1580 and 1584 His life was spent mainly at Haarlem, where he painted and taught painting and where he died in August, 1606

One of the greatest masters of portraiture, especially in the realistic and life like painting of the head and hands, his work greatly in fluenced the style of the Dutch school of painting His well known picture, 'The Laugh ling Cavalier," is in the Wallace Collection, London, and others are in the National Gallery, London Most of them, however, are in the Netherlands, especially at Haarlem, but there are others in the Louvre, Paris

Halsbury Earl of English lawyer Was born Sept. 3, 1823, in London, his father, Stanley Lees Giffard, being a writor He was educated at Merton College, Oxford, and became a barrister In 1875 he was made Solleitor General in the Conservative ministry and in 1877 he was elected M P for Launceston In 1885 he was made Lord Chancellor and a baron He was again Lord Chancellor and a baron He was again Lord Chancellor and a baron He was again Lord Chancellor, 1886 92 and 1895-1905 In 1898 he was made Earl of Halsbury He died Dec 11 1921 He was succeeded by his son, hitherto known as Viscount Tiverton Halsbury was noted for his physical vigour, which enabled him to live nearly a century, and for his unbending Toryism Ho edited The Encyclopacdia of the Laws of England

Halton village of Buckinghamshire. It from Aylesbury and is one of the centres of the Air Force A camp was established here in 1917, and this became, as it now is a training ground for those enter ing the air force

Another Halton is a village of Cheshire It is 11 m from Chester, on the L M.S. Rly Here are the ruins of a castle Pop 1250

Ham Son of Noah Gen x makes him the ancestor of peoples occupying Ethiopia, Fgypt and other parts of northern Africa whom modern ethnologists class as Hamilto in contrast with Somithe

Africa whom modern etunologists cases as Hamilto, in contrast with Semitic.

Ham about 10 m to the west of London lying between Twickenham and Teddington There is a common at Ham Near are Richmond Park and Ham House built early in the 17th century and a seat of the Earl of Dysart It is famous for its art treasures and its meadows called Ham Walks Pop (1931) 2206

Hamadan Town of Persia It is 180 m to the south west of Teheran and is an important trading centre, as it has been for many centuries. The caravan roads to Bagada and the Casplan Sea pass through it. There are some manufactures In April, 1918 the town was occupied by the British It covers the site of the ancient Echatana. Pop 30,000

Hamadryad According to Greek mythology a nymph presiding over and living in a tree becan and ended with that of the tree

Another hamadrynd is a large species of cobra called also the king cobra. It feeds largely on other snakes

Haman Character in the Biblical book and the grand vizier of Ahasucrus King of Persia He formed a plot to avenge himself on Mordecal

by extirpating the Jewish race. This was exposed by Esther and he was hanged upon the lofty gallows prepared for Mordecal, who succeeded him. His effigy formerly appeared at the commemorative feast of Purim.

Hamble River of Hampshire. It falls into the sea near Southampton

Hamble River of Hampshire. It falls into the sea near Southampton where it forms Hambledon Creek At its mouth on Southampton Water, 5 m. south of Southampton, is a station for flying boats and scaplanes, also called Hamble. In 1931 a flying school was opened here

Hambleden Viscount. English title Smith The statesman, W H Smith, left a widow who in 1891 was created Viscountess Hambleden This title was inherited on her death in 1913 by their son William Frederick Danvers Smith Born Aug 12, 1868 he was educated at Eton and New College, Oxford. From 1891 to 1910 he was Unionist M.P for the Strand division of London and until his death head of the firm o' W H Smith and Son, the distributors of newspapers. He was known as an earsman and a benefactor of King's College Hospital He died June 16, 1928, his title passing to his elder son

Hambleden is the name of a village in Buckinghamshire

Hambledon village of Hampshire It is famous as the early home of cricket in England About 1750 the Hambledon Club was formed and this played the game on Windmil and Broad Halfpenn Downs. William Beldham, called Silver Billy, and other famous cricketers of that time were among the Hambledon mon

Hamburg City and scaport of Germany Hamburg City and scaport of Germany republic It stands on the Elbe, 75 m from its mouth at Cuxhaven and 180 from Berlin The second largest city in the land, it covers a large area and includes suburbs that were once separate towns The Bille flows through it to join the Elbe it is also traversed by canals Another river the Alster, has been dammed up to form two lakes, outer and inner, which are a feature of the city It is connected by rallway with all parts of Germany has a service of electric trains and is an airport

The city hall and the law courts are fine modern buildings There is a university, opened just after the Great War, and an institute of tropical medicine The city has botanical gardens, two observatories, several muscums and near, at Stellengen, is Hagen beck's famous zoological park. The Lombards bridge divides the two Alsters The Hall of Art contains a collection of modern German pictures. It has a broadcusting station (372 M,

15 kW)
The extensive docks accommodate the largest vessels. They include miles of sheds and quays near them are the great ship building and ship repairing yards of one of the world's largest scaports. Part of it constitutes a free port which has an enermous transit trade, the whole is over 6 m long Of the many lines that have their headquarters here the greatest is the Hamburg Amerika founded in 1847.

Apart from the shipping which has now recovered from the paralysis of the Great War Hamburg is a great manufacturing town Beer, spirits chemicals and machiners are made. The preparation of foodstuffs is a large industry and others are the refining of oil and sugar.

In the Middle Ages Hamburg was a leading member of the Hanseatic League In 1510 it was made, and it still is, a free city In 1815 it Joined the German Confederation, in 1868 the North German Confederation, and in 1871 the German Empire In 1918 it became a state of the new republic. Pop (1929) 1,143,079

The state of Hamburg covers 160 sq m,

and includes, in addition to the city, some detached portions of land, several being islands in the Elbe Cuxhaven, its outport, and Ritzebüttel are also included. It is governed by a house of burgesses elected by all adults and an executive chosen by the house Pop (1929) 1,226,111

Hameln (or Hamelin) Prussian town in the province of Hanover It stands on the Weser and dates as a town from the 11th century Pop (1925) 25,633 It is chiefly notable as the town of Browning's legend of the Pied Piper, who in 1284 rld the town of a plague of rats. The inhabitants refusing to pay him, he charmed the children of the town to follow him into a door in the Koppelberg hill, whence none returned

Hamilcar Name of three noted Carthafamous was Hamilear Barca, or lightning, the father of Hannibal He lived in the 3rd century BC, and spent his life in warfare He commanded the Carthaginians in Sicily during the first Punic War and made peace with the Romans in 241 BC. He then returned to Carthage and put down a rising of the mercenter of the carthage and put down a rising of th aries His last year was passed in Spain where he built up the power of Carthage He was killed in battle in 228 B C

Hamilton Burgh and market town of Lanarkshire It is 11 m from Glasgow and is served by the LMS and LNE Rlys Here are barracks, as the burgh is the depôt of the Cameronians (Scottish Riffes) The chief industry is coal mining and around are market carries. and around are market gardens Pop (1931)

30,400 Near the town is a park of 1500 acres, in which Hamilton Palace, the residence of the Dukes of Hamilton, stood until it was de-molished. The park is used as a race-course The burgh of Netherton stood here before 1600 Hamilton was then called Cadzow, and there are still ruins of Cadzow Castle In Cadzow Park is a famous herd of white cattle

Hamilton City and port of Ontario, Canada It stands on Burlington Bay, a branch of Lake Ontario, 39 m from Toronto It has stations on the two great railway lines, the CNR and CPR, and from here electric railways radiate Iron and steel goods are made and other industries include the making of furniture, textiles, etc. There is also some shipping to other ports of the Great Lakes Electrical energy is obtained from water power Burlington Beach is a strip of land in territ of the city. Great Larces Electrical Charles Beach is a from water power Burlington Beach is a strip of land in front of the city. It is used as a pleasure resort, whilst a canal passes through it. Pop (1931) 154,914

Hamilton Capital of the Bermudas. It is on Great Bermuda, and has a good harbour, although somewhat difficult. of approach Since prohibition was

cult of approach Since prohibition was introduced in the United States it has become

Hamilton Town of New Zealand In Auckland. It is served by a rallway line and is the centre of a farming district. Pop 18 250

Hamilton Town of Victoria. It is 198 m. by raflway from Melbourne

It is the centre of a large grazing district where butter is made Races are held here. Pop (1931) 5300

Another Hamilton is a town of New South Wales It is 75 m from Sydney Pop 6000

Alexander American states-Hamilton Alexander American states man Born in the West Indies, Jan 11, 1757, he was the child of a Scottish father and a native mother. He was Scottish father and a native mother He was educated in New York, became a lawyer and was assistant to Washington during the War of Independence In 1782 he was chosen a member of Congress and he had a large share in framing the constitution of the country He was the leader of the party that stood for a strong central government and he put forward his ideas in The Federalst From 1780 to his ideas in The Federalist From 1789 to 1795 he was Secretary to the Treasury and did a great work in organising the country's finances. In 1799, Washington being dead, he was appointed to command the army raised to resist a threatened French invasion On July 11, 1804, Aaron Burr wounded him in a duel and he died on the following day

Hamilton Duke of Scottish title, the senior of its kind Sir James Hamilton of Cadzow in Lanarkshire married a daughter of James III, and their son was made Earl of Arran in 1503 His son was made Earl of Arran in 1503 His son was regent of Scotland and was made Duke of Châtellerault by the King of France in 1549. His son, John, was made Marquess of Hamilton His son, John, was made Marquess of Hamilton in 1599 James, the 2nd marquess, was made a duke in 1643 In 1648 he led an army into England to help Charles I, but was defeated at Preston, and in 1649 was executed His brother, William, the 2nd duke, was killed at the Battle of Worcester in Sept 1651, and the title became extinct In 1660, William Douglas, Earl of Selkirk, having married the heiress of the last duke, was made Duke of Hamilton, and this title still remains with the family of Douglas-Hamilton

James Douglas, who in 1698 succeeded to the dukedom, was allowed to take pre-cedence from 1643 He ranks therefore as the edence from 1043 He ranks therefore as the 4th duke He was made Duke of Brandon in 1711, and was killed in a duel with Lord Mohun, as described by Thackeray in Esmond. James, the 6th duke, married Elizabeth Gunning James, the 7th duke, inherited the title of Marquess of Douglas Alexander, the 1042 duke was suppossed on at St. Betargetic 1042 duke was suppossed on at St. Betargetic 1042 duke was suppossed on at St. the 10th duke, was ambassador at St. Peters-burg William, the 11th duke, married a daughter of the Grand Duke of Baden and spent much of his time at the court of Napoleon III. His son, Alexander, the 12th duke, died without sons in 1895, when a kinsman, Alfred, inherited the titles and the estates in Lanarkshire Other estates, including the island of Arran with Brodick Castle, passed to the daughter of the 12th duke, who later became Duchess of Montrose

The duke's seat is now Dungavel, Lanark-ire His eldest son is the Marquess of Douglas and Clydesdale, a noted airman and boxer, elected Unionist MP for East Renfrewshire in 1930 In 1933 he flew over Mount Everest. (see Everest)

Hamilton Emma, Lady. Mistress of Lord Nelson She was born Mistress of it is said, at Great Neston, in Cheshire, April 26, 1765, the daughter of a labourer, and was known as Emily Lyon She lived for a time at Hawarden and then went to London as a servant. She had several lovers, and in 1781 became the mistress of the Hon Charles Greville, leaving him in 1786 for Sir William Hamilton.

British minister at Naples. In 1791 Hamilton the river It adjoins Chiswick and Kensington, married her and she became very friendly and part of it is called West Kensington with the Queen of Naples At Naples in 1793 The borough includes Wormwood Scrubs with she met Nelson, but their intimacy did not the prison The Lyric Theatre is famous for British minister at Naples. In 1791 Hamilton married her and she became very friendly with the Queen of Naples At Naples in 1793 she met Nelson, but their intimacy did not begin until 1798 Their child, Horatia, was born in 1801 Left a widow in 1803, Lady Hamilton's extravagance soon landed her in debt and in prison She died Jan 15, 1815 Lady Hamilton's heavy attracted the

Lady Hamilton's beauty attracted the attention of George Romney, who painted her more than 20 times Sir Joshua Revnolds also painted her A number of books have

been written about her

Hamilton Sir Ian Standish Montelth British soldier Born at Corfu. Jan 16, 1853, the son of a soldier, he was educated at Cheam and Wellington College, entering the Gordon Highlanders in 1872 In Afghanistan in 1878 he began a long career of active service He was wounded and taken prisoner at Majuba in 1880, and was later in Egypt and Burma, as well as in the Chitral Tirah campaigns on the Indian Frontier In 1809 he was Chief of the Staff in Ladysmith, and served against the Boers to the end of the struggle, either as Chief of the Staff to Kitchener, or in command of a force during the guerilla warfare From 1902 to 1915, he was, in suc-cession Quartermaster General, Commander of the Southern District, Adjutant General and Inspector General of Oversca Forces In 1904 05 he was with the Japanese armies in Man churia

In 1915 Hamilton was appointed to the command of the force that attacked the Turks in Gallipoli, and he conducted this costly campaign almost to the end He retired from the army in 1920, being then a general and the recipient of numerous honours

Hamilton is a graceful writer in prose and verse, and by no means a soldier of the conventional type His books include A Staff Officer's Scrapbook and A Gallipoli Diary

Hamilton Patrick. Scottish martyr 1504, he was descended through his mother from King James II. He was sent to Paris from King James II He was sent to Paris for his university education and at Louvain he learned something of the reformed teaching Having returned to Scotland he was accused of heresy but escaped punishment by going to German, where he was influenced by Luther He went back to Scotland in 1527 Luther He went back to Scotland in 1827 and was soon taken and put on trial for heress. He was found guilty and on Feb 29 1528, was burned at St Andrews In Germany, Hamilton wrote Loci Communes, or Palricl's Places, a statement of his religious faith

Hammerfest Town and port of Nor in the north of the country, 675 m from Trondhjem There is a harbour and the port is a centre of the whale fishery. It exports cod liver oil and other products of the northern seas and has the reputation of being the most northerly town in the world. Pop. 2700

Hammerhead Large bird found in the stork family, is brown in colour and is about 2 ft long it is found near lakes as it feeds on fish and frogs. The feathers on the head give it a certain resemblance to a hammer hence its name. It is also called hammerkop and umbrette

Hammersmith Borough of the London To the west of the city it has the Thames

its association with the revival of The Bengar's Opera and the performance of other successful plays In the borough are Olympia a vast building used for exhibitions and the like, and the White City at Shepherd's Bush Pop (1931) 135,621

Hammond Walter Reginald English June 3, 1903 Having become a professional Gricketer he played first for Gloucestershire His performance in 1927, both as a bateman and bowler, made his reputation and he became one of the leading cricketers in England. He visited Australia and in 1930 played in the

test matches in England

Hammurab1 King of Babylon The sixth monarch of the 1st dynasty of Babylon and the son and successor of Sin muballidh, he has been identifiable with Amraphel King of Shinar (Gen xiv) He throw off Chedorlaomer's supremacy, dominated the Sumerian and Akkadian city states and made Babylonia a single monarchy His brilliant reign of 43 years was marked by much building and canal construction, he left valuable letters and a Somitic code of laws His date is about 2100 BC A stela in the British Museum bears his sculptured representation

Hampden Name of two vinages in Buckinghamshire, Great and Little Great Hampden is three miles from Missenden and in its church is a memorial than the was hurled here. Near to John Hampdon who was burled here Near is Hampdon House, once his residence This was rebuilt in 1754 and is now the seat of the Earl of Buckinghamshire

The title of Viscount Hampden has been borne since 1884 by the family of Brand Henry Bouverle William Brand was a Liberal M P from 1852 to 1884 From 1872 to 1884 he was Speaker of the House of Commons He

dled March 14, 1892

Hampden Born at Hampden in 1594, he was a son of William Hampden, and was related through his mother to Oliver Grom well He was educated at Magdalen College, Neil He was educated at Anguation College, Oxford, and studied law In 1621 he was elected to the House of Commons for Gram pound, then for Wendover and then for Buckinghamshire In 1627 he was imprisoned for refusing to contribute to a forced loan but his fame rests on his opposition to Ship Money He refused to pay this tax and in the who impeached Strafford and one of those who impeached Strafford and one of the five members whom Charles I tried to arrest He raised a regiment when the Civil War began and led it at Edgyhill and in other fights On June 18 1643 he was wounded at Chalgrove

Field, and died on June 24, 1643
Hampshire County of England Its full name is the county of Southampton it is in the south of the country with a coastline on the Lnglish Channel It includes the Isle of Wight, which however, has its own county council. The total area has its own county council. The total area is 1623 sq. m. Winchester is the county town, but Southampton Portsmouth and Bourne mouth are larger Other towns are Aldershot, Basing toke and I astleigh and there are several Talliffer Sillith county of London interesting market and other towns Alton To the west of the city it has the Thames Fareham Petersfield, Stockbridge and Andover on its southern side and here a bridge crosses among them Lymington, Havant and Bosham

are small scaperts. Portsmouth Harbour is the headquarters of the navy, Southampton Water is a great commercial harbour

The rivers include the Itchen, Test, Hamble, Avon and Lymington There are Downs in the north and around Winchester, sheep farming is one of the chief industries The country contains the New Forest and remains of Wolmer and other forest areas Places of historic interest, in addition to Winchester, are Beaulieu and Christchurch, Basing House and Hurst Castle It is served by the Southern and G W Rlys Hampshire is famous for its carly association with the come of crisks and early association with the game of cricket, and is now a first class county 1,014,115 Pop (1931)

The Hampshire Regiment was formerly the 37th and 67th Foot These were raised in 1702 and 1758 respectively and have since had a long and honourable record of service

The depot is at Winchester

HAMPSTEAD

Several British warships have been named the Hampshire One existed in the time of the Commonwealth Another, a cruiser of 11,000 Commonwealth Another, a cruiser of 11,000 tons, was lost off the Orknevs on June 5, 1916 Lord Kitchener and 600 officers and men were drowned

Hampstead Borough of the county of London It lies to the north-west of the city, about 6 m away The borough includes, in addition to Hampstead proper, Haverstock Hill and West Hampstead stretching along the Edgware Road Here are Westfield College for women, Hackney and New College, a theological in-stitution, and University College School In old Hampstead some delightful houses

In old Hampstead some delightful houses still stand A notable thoroughfare is Well Walk, named when there was a spa here At one time Keats lived thorein, another house he occupied, Lawn Bank, is now a memorial to him To the north of Hampstead Heath is the Hampstead Garden Suburb This was laid out in 1907, and is one of the This was laid out in 1907, and is one of the most successful enterprises of its kind. The land is owned by a trust. Pop. (1931) 88,914

Hampstead Heath Public recreation ground in the north of London. On high ground in about 430 ft above sea level, it covers altogether some 600 acres, part of it being known as Parliament Hill It was once noted for its fairs and is still a popular resort on bank holidays On or near it are the famous inns known as The Spaniards, Jack Straw's Castle and The Bull and Bush

Hampton Urban district of Middlesex 15 m from London, on the S Rly, and contains Hampton Court A ferry goes from here to the other side of the river A house here is called Garrick's Villa, because the great actor lived in it for a time Pop (1931) 13,053 About 3 m from Hampton is Hampton Wick, also an urban district. The chief building is the church of S John the Baptist A bridge over the Thames connects Hampton with

over the Thames connects Hampton with Kingston Pop 2957 Another Hampton is Hampton-in-Arden, Warwickshire. This is 102 m. from London, on the L M.S. Rly Pop 1100

Hampton Court Palace on the Thames near London, and is one of the finest buildings of its kind It was erected by Cardinal Wolsey and enlarged by Henry VIII, who took it from his fallen minister Later, further additions

were designed by Wren It contains over 1000 rooms George III was the last king to reside here Parts of the palace are occupied as residences by private persons, but the larger apartments are open to the public These include the great hall, the haunted college and the characteristics. These include the great hall, the haunted gallery and the chapel royal Other interesting features are the gateways, the great vine, the old clock and the maze. There is a valuable collection of pictures. The park covers 600 acres and there are over 40 acres of beautiful gardens. Adjacent is Bushey Park.

In 1604 the Hampton Court Conference was held here. This was convened by James I in order to compose the differences between the Anglican clerey and the Puritans. It had

the Anglican clergy and the Puritans It had

no definite result

Hamsun Knut Norweglan novelist Born Aug 4 1859, he became a clerk and then tried various other occupations, farming and teaching among them He wont to farming and teaching among them He went to the United States, but was equally unsuccessful In 1888 his first novel, Sull, was published in a Danish magazine, and this made his reputation He wrote other novels which have been translated into English and other languages The English titles of some are, Shallow Soil, Growth of the Soil, The Women at the Well, Mysteries and Vagabonds (1931) In 1920 he received a Nobel Prize

Han River of China A tributary of the Han Yang-tse Kiang, it is about 1900 m. long It rises in the mountains in the province of Shensl and flows to join the Yang-tse at

of Shensi and flows to join the Yang-tse at Hankow It is navigable for large vessels for about 450 m, and for small ones for almost the whole of its course

Prehensile extremity of the fore limb Beyond the eight carpal Hand limb bones of the wrist are the five metacarpal bones of the palm, and 14 phalanges serving one two jointed thumb and four three-jointed fingers. The hands are a fundamental distinction between mankind and the lower animals. They arose from withdrawing the fore limbs from the office of support and locometion leaving this to be discharged colormotion leaving this to be discharged solely by the hind limbs, and endowing them with the faculty of grasping by means of perfectly mobile fingers and opposable thumbs

Hand Unit of length, used in the measurement of horses Originally roughly the breadth of the palm of a man's hand, it has been standardised at four inches

Handel George Frederick. English musician Born at Halle in Lower Saxony, Feb 23, 1685, he was the son of a surgeon there Despite parental opposition, he studied music and after a time became organist of the church in his native town In 1703 he joined an orchestra at Hamburg and there his first opera, Almira, was composed After three years in Italy, he became, in 1710, chapel master to George, Elector of Hanover, and in 1712 he settled in England, two years before his master became king He produced Runaldo in London, and in 1713 his produced Rinaldo in London, and in 1713 his famous Utrecht Te Deum appeared He became organist to the Duke of Chandos at Edgware and in 1726 was naturalised From then until 1750 he was busy composing operas and oratorios In 1751 he became blind and he died April 14, 1759 He was buried in

Westminster Abbey
Handel is best known by his oratorios
His masterpiece, The Messiah, was produced
in Dublin in 1742 Esther Alexander's Feast, Samson, Judas Maccabaeus and Jephtha are

other famous pieces. He composed much other of pottery. In 1910 Hanley was made part music, sacred and secular, the latter including of the city of Stoke on Trent  $(q \ v)$ music, sacred and secular, the latter including operas written for the Royal Academy of Music. For the coronation of George II he composed Zadol. the Priest and he wrote Anthems and Lessons for the Duke of Chandos

Handicap Method of treating competitors in a race or other sporting event so that each shall have a fair chance of success. The method of handicapping varies with the kind of sport In horse racing the horses must carry certain weights, these being fixed by officials of the Jockey Club and other organisations In golf the weaker competitors are given a certain number of strokes In lawn tennis the players owe or receive 15 points or some other score In foot races and billiards a handicap takes the form of a start to the weaker competitor

Handsworth (WR) It is 4 m from Sheffield Here are collieries, nursery gardens and quarries

Another Handsworth is a district of Birming ham It is in Staffordshire to the north west of the city, and until 1911 was a separate urban district. It is an industrial area. Hands worth College is a centre for training Wesleyan ministers

Hangar Large shed used for housing aircraft. It may be of a tem porary or permanent character. Large hangars often of concrete construction form an important part of the buildings of an aerodrome

Hanging Gardens Gardens at one of the Seven Wonders of the World They were arranged in terraces the highest being 300 ft above the plain and contained halls and other buildings placed amidst luxuriant tropical flowers and trees It is said that they were laid out by Semiramis but it is more probable that Nebuchadnezzar was responsible for them

Hankey Sir Maurico Pascal Alers English administrator Born April 1 1877, he was educated at Rugby and entered the marines in 1902 he became an official in the Naval Intelligence Department at the Admiralty and was soon associated with the Committee of Imperial Defence. In 1912 he became its secretary and in 1916 Secretary to the War Cabinet. In 1919 when a secretariat. for the cabinet was formally established he was placed at its head In 1916 he was knighted and in 1919 he was awarded £25 000, pre sumably for his work at the Peace Conference

Hankow Treaty port of China It stands on the north bank of the Yang It stands tse Kiang where it is joined by the Han, about 600 m from its mouth. It is connected by railway with 1 ciping nearly 500 m away There is a harbour with accommodation for large steamers but they can only ascend the river during the summer

Opposite on the south bank of the Yang tee is Wuchang and across the Han is Hanyang

through these cities much of the commerce of the centre of the country passes. In Hankow the British French and Japanese have settle ments and near it are some of the richest deposits of iron ore in the vorld. The popula-tion of the three critis in 1931 was 777 993

Hanley District of Stoke-on Trent once town It is 18 m from Stafford and 148 from London and is reached by the LMS Rly The main industry is the manufacture

Hannah Wife of Elkanah and the prophet Samuel's mother (1 Sam. i-il) Receiving her son in answer to praver, she dedicated him to the service of the temple under the high priest, Ell her song is a prototype of the Magnificat.

Hannibal Carthaginian soldier and one of the world's great captains A son of Hamilear Barca he was born about 247 B 0 His boyhood and youth were passed partly in Spain in military surroundings, and there he learned that hatrod of Rome that dominated his life When, in 229 Hamilear died, his young son was halled as his successor, and soon entered upon his wonderful career He brought parts of Spain under the authority of Carthago and took Saguntum in 218, thus bringing on a war with Rome In the same year Hannibal set out for

Italy He crossed the Pyronees defeated a Roman army in Gaul and made his memorable passage of the Alps, which cost thousands of lives and himself the loss of an eye He won a first victory over the Romans at Ticlinus and then a much greater success at Treblà. Marching towards from the almost annihilated one great Roman army at the Traslmene Lake (217) and another at Cannae (216) In 216 he passed a memorable winter in Capua, from which he emerged to carry on a prodatory and indecisive warfare that lasted for nearly from ten years. Victory seemed impossible and his skill avoided defeat until the disaster at the Metauras in 207 His brother, Hasdrubal, in that year succeeded in reaching Italy with an army, but before he could join the other Carthaginian force he was defeated and killed in battle His head was cut off and thrown nis fate for four more years Hannibal cyried on the hopeless struggle and then in 203 returned to Carthage which was being invaded by the Romans At Zama he met his old enemy, Sciplo, in battle but this time Hannibal was atterly heaten. He left his country as an was utterly beaten. He left his country as an exile and lived for a time in Asia Miner The Romans demanded his surrender, to avoid

which he took poison in 183

Hanno Carthaginian sailor He lived about 500 BC and is famous for the voyage he made along the west coast of Africa He wrote an account of this which has been translated into English and is one of the

carliest extant writings of its kind

Another Hanno, who flourished about 250 Bc, is known as the opponent of the party in Carthago led by Hamilear and his sons His policy was to keep at peace with Rome Hanno was governor of Libya where his rule led to serious trouble

Hano1 City and river port of Asia, the Indo China. It stands on the Song Loi or Red River about 80 m from its mouth It is laid out on modern lines with all modern conveniences. There is a university Near the city is the Great Lake on the side of which is built a Buddhist temple with a famous statue of Buddha. The city is well served by railways and has some manufactures. Small steamers can reach it. The river is here crossed by a lighten a reach it. by a bridge a mile long Pop (1932) 123 210

Hanotaux Albert French Gabriel Auguste right of the state of the scholar Born Nov 19 1853 he became an official in the foreign office From 1886 to 1889 re was a member of the Chamber of Deputies From 1894-98, with a brief interval in 1895-96, ne was Minister for Foreign Affairs, his policy being one of friendship with Russia and advance in Africa He resigned after the French rebuff at Fashoda and devoted the rest of his life to literary work. In 1897 he was elected to the Academy

Handaux has written some monumental works, including his Histoire de la France Contemporaine, which has been translated into English, and his Histoire de la Guerre de 1914 in 18 volumes His Historic de la Nation fran-çaise is in 15 volumes, he wrote a notable book on Richelieu

Hanover District of Germany, once a separate kingdom. It is now a province of Prussia having Hanover as its capital, and covers 14,597 sq m The duchy of Lüneburg-Celle was ruled in 1692 by Ernest of Lunchurg-Celle was ruled in 1692 by Ernest Augustus, who was made an elector as a reward for helping the Emperor Leopold I and styled himself Elector of Hanover, this being the name of his capital Hanover remained an electorate until the dissolution of the Empire in 1806 In 1814 it was made a kingdom Its rulers from 1714 to 1837 were also Kings of Great Britain and Ireland. In 1837 Hanover was separated from Great

In 1837 Hanover was separated from Great Britain and Ernest Augustus, Duke of Cumberland, become the king He died in 1857 and was succeeded by his son George V In 1866 George took the side of Austria in the war against Prussia. The Prussians, therefore, invaded Hanover and annexed it. The king against and then his son, the Duke of Cumberland, maintained their rights to the throne, but these were never recognised, and Hanover has since remained part of Prussla

Hanover It is 116 m. from Hamburg and 163 from Berlin, and is an important railway junction, standing at the function of the rivers Leine and Ihme It is also an airport and is connected with the Rhine by a canal.

The town consists of an old town, a new town and suburbs around them There are some fine squares and beautiful public gardens, including a zoological garden The opera house and several theatres may be mentioned, and there is a hall seating 6000 people. Near the town are some extensive woods owned by the municipality, and Herrenhausen, formerly the residence of the rulers of Hanover The suburbs include Calenberg and Linden Machinery, textiles and chemicals are the chief industries, also printing It has a broadcasting station (566 M., 0 25 kW) Pop (1925) 425,274

Hansard Name given to the official reports of the proceedings of Parliament. In 1803, Thomas Curson Hansard, a printer, began to issue accounts of the debates After his death in 1828 the work was continued

by his family, and in 1857 a grant of money was made to help them in the work.

In 1895 the Hansards ceased to do this work, which was taken over by the staff of The Times which was taken over by the stan of *Inc Times* In 1908 this arrangement ended and the debates are now reported by a staff engaged by the Government. The name Hansard is, however, retained for the volumes that contain the debates and speeches. A verbatim report of the proceedings of each sitting is issued each day that Parliament meets

Hanseatic League Union of towns, chiefly in the north of Europe, for trading purposes

In the 12th century, in some of the cities that took the lead in developing trade with foreign countries, merchants formed themselves into a hansa or association for the purpose of securing privileges. Later, two or more of these hansa united themselves together for the same purpose and in this way the great Hanseatic purpose and in this way the great Hanseatic League began In forming this league Lübeck, Hamburg and Bremen took the leading part, and in the 14th century they had made it into a great confederation, equal in power, and more than equal in wealth, to many of the European states Most of the scaports on the Baltic and the eastern side of the North Sea were members. Its beadquarters were at were members. Its headquarters were at Lübeck.

The 14th century, when the Baltic was a great highway of trade, was the most flourishing period of the League's history Its membership meant valuable privileges for merchants in England and other lands, not the least being protection, for the League kept an army From 1340 to 1370 it carried on a war with Denmark, in which it was victorious In the 15th century, the power of the League declined Various causes contributed to this, one being the growth of nationality The discovery of America was another blow, and the Thirty Years' War brought the League to an end For long after, however, the towns of the League were called Hanse Towns

Hansom Name of a type of cab now rarely seen It was named after J A. Hansom, a Yorkshireman, who registered the first one as a patent. The earliest hansom had the driver's seat at the side and was fitted with two enormous wheels Later the seat was placed at the back

Hanway Jonas. English philanthropist Born at Portsmouth, Aug 12, 1712, he entered business at Lisbon Later he was a merchant in Russia and Persia. He settled in London and was from 1762 to 1783 a civil servant. He died Sept. 5, 1786 Hanway was the first man to carry an umbrella in London, he founded a hospital for fallen women, and attacked the habit of drinking tea

Hanwell District of Middlesex, part of the borough of Ealing, and 7 m. from London The Brent and the Grand 7 m. from London The Brent and the Grand Union Canal flow through the district which includes Ellhorne

Hanworth District of Middlesex. It its station is Feltham on the S Rly Here is the London Air Park

Hapsburg Name of great European family. It is taken from a castle near the union of the Aar and the Rhine, where the early Hapsburgs lived. They were counts, and in 1273 one of them, Rudolph, was chosen German King He secured Austria and Styrin, and his descendants were dukes and then archdukes of Austria Rudolph's son, Albert, was German King, as was another member of the family, Frederick, but only for short periods

In 1438 Albert, Archduke of Austria, a descendant of Rudolph, was chosen German King. He had just inherited by right of his king. He find just innertied by light of his wife the kingdoms of Bohemia and Hungary, and with Austria and the duchies associated with it he ruled over a fairly extensive territory. From this time until 1806, the Hapsburgs were German kings and Roman emperors, though they were descended not from Albert but from a relative, Frederick, who became German Ling in 1840.

King in 1440

Frederick's son was Maximilian I, who was succeeded by a grandson, Charles V Charles had a brother, Ferdinand, who became King of Bohemia and Hungary and who succeeded as emperor on his brother a abdication. From this time the Hapsburgs were divided into two branches, the Austrian Hapsburgs descended from Ferdinand and the Spanish Hapsburgs descended from Charles's son, Philip II The Spanish Hapsburgs became extinct when Charles II died in 1700, the Austrian Haps burgs when Charles VI died in 1740

The later Hapsburgs are descended from the marriage of the Empress Maria Thereas, the daughter of Charles VI and Francis, Duke of Lorraine, and are sometimes called the house Lorraine, and are sometimes called the house of Hapsburg Lorraine Francis II, a grandson of Maria Theresa and Francis, resigned the imperial crown in 1806 and the Holy Roman Empire came to an end In 1804 he had de clared himself Emperor of Austria, and his descendants, notably Francis Joseph, kept this dignity until 1918, being also Kings of Hungary and Bohemia and until 1859 having lands in their The last emparer was Charles who Italy The last emperor was Charles, who abdicated in 1918 and died in 1922, leaving his son, Francis Joseph Otto, as head of the house

Hara-Kiri Japanese practice of self disembowelment As an សា honourable atonement for wrongs done by nobles and officials, it was formally recognised in the 14th century and was effected core monially with a jewelled dagger sent by the Mikado For centuries about 1500 such suicides Mikado For centuries about 1500 such such shall of them voluntary, occurred annually Obligatory hara kiri ceased in 1868 the voluntary form remains General Nogi observed it is also simultaneously cutting her throat, his wife simultaneously cutting her throat, when the Mikado Mitsuhito died in 1912

Harbin Town and river port of Manchurla It stands on the Sungarl River, 325 m from Mulden and is a junction on the Chinese Lastern Rly It is a treaty port and has an international settlement Pop 330,436

Harbour Stretch of water where ships natural harbours and artificial harbours hest natural harbours are found where the sea penetrates the land by a somewhat narrow entrance as is the case with Sydney and Cork harbours which are among the finest in the world The entrance to New York makes a fine natural harbour other good examples are Milford Haven and Portsmouth The mouths of rivers may make harbours but these are less protected than are land locked arms of the sea and are more liable to be silted up with and or debria

Artificial harbours are made in suitable places by the construction of breakwaters and other works of that kind, some of these being marvels of engineering skill Dover, South ampton and Buenos Aires are examples of this kind constantly being improved to accommodate larger and larger vessels. Many small harbours which made prosperous scaports are now useless because they cannot accommodate the larger vessels of to day

A modern harbour is equipped with docks of all kinds and appliances for expediting the handling of cargo. Some harbours, those at handlin, of cargo Some harbours those as Dover Rosyth and Cherbourg for instance have been built for naval purposes. In most large ports such as London Liver to the control of the cargo been built for harbour is owned and

pool and Glasgow the harbour is owned and managed by a special authority appointed for that purpose In other ports the docks belong

to a railway company, Southampton being an example In some small ports they are the property of the local authority

Harbour Grace Town and port of Newfoundland On the shores of Conception Bay, in the cast coast of the island, it has a harbour of considerable size Here is a Roman Catholic cathedral It is connected by railway with St. John's Pop 3825

Harcourt Viscount Title held by the first viscount was Simon Harcourt, who was made Lord Keeper of the Great Séal in 1710 He was made a baron in 1711 and a viscount in 1721 He died July 23, 1727 His son, Simon, the 2nd viscount, was made an earl in 1749, and was Lord Lieutenant of Ireland, 1772 77 When he died in 1777 the titles passed in turn to his two sons When in 1830, William the 3rd earl, who was a distinguished soldier, died, the Harcourt titles became extinct

In 1916 the title of Viscount Harcourt was revived for Lewis Vernon Harcourt Born Feb 1, 1863, he was the elder son of Sir William Harcourt who had inherited the estates, including the manor house of Stanton Harcourt and Nuncham Park, both in Oxford shire The former had been a family residence for 600 years Lewis Harcourt was an MP from 1904 to 1916 From 1905 10 he was First Commissioner of Works, and from 1910 15 Secretary for the Colonies He died Feb 24, 1922, leaving an only son to inherit his title

Harcourt Sir William English states-ville Venables Vernen Harcourt, born Oct 14, 1827, was a grandson of Edward Harcourt, Archbishop of York He went to Trinity College, Cambridge, and became a barrister His powerful intellect soon showed itself in his contributions to The Saturday Review and in the letters which signed Historicus, he wrote to The Times From 1867 to 1877 he was Whewell Professor of International Law at Cambridge

Harcourt, true to the Whig creed of his family joined the Liberal party, and in 1808 was elected M P for the city of Oxford From 1880 to 1895 he represented Derby and from 1895 to 1904 a division of Monmouthshire In 1873 74 he was Solicitor General and from 1880 85 was Home Secretary under Gladstone, 1880 85 was Home Secretary under Gladstone, whom he followed when Home Rule split the Liberal party In 1886 he was Chancellor of the Exchequer for a few months, and he returned to that position in 1892 In 1894 he succeeded Gladstone as leader in the House of Commons but not, to his disappointment, as Premier He was responsible for the introduction of the death duties He left office in 1895 and led the party in opposition until 1898 when he resigned but he kept his seat in the Commons until his death Oct 1, 1904 n the Commons until his death Oct 1, 1904 In his later years he lived at Nuncham, near Oxford the old seat of the Harcourts which he inherited from a kinsman He left two sons, Lewis (q v) created a viscount, and Robert His life has been written by A. G. Gardiner

Although a thorough aristocrat, Harcourt became more radical in his political opinions as he advanced through life. A man of commanding presence he was recognised as one of the first debaters of his time, he had an equally high reputation as a wit

Hardanger Flord or inlet of the coast of Norway It extends for about 70 m inland, Vik being at its head, and

has a branch which goes to Odde The fjord! is much visited by tourists who are attracted by the wonderful mountain and other scenery Near is the waterfall called the Vöringfos

Hardie James Keir Scottish politician Born April 15, 1856, he became a coal miner in Lanarkshire In 1880 he was chosen secretary of a trade union there, and he chosen secretary of a trade and there, and he soon appeared as an ardent socialist. From 1882 86 he edited The Cumnock News, and from 1900 to 1915 The Labour Leader. In 1892 he entered the House of Commons as M.P. for South West Ham. He lost his seat in 1895, but in 1900 he was elected for Merthyr Tydfil, which he represented until his death, Sept. 26, 1915. Headle, is hest reprophend perhaps as Hardle is best remembered, perhaps, as 1915 the founder of the Independent Labour Party

Harding Warren Gamaliel American The son of a doctor, he was born in Ohio, Nov 2, 1865 He started life, after an education in a local school and college, as a schoolmaster, but soon became a printer In 1884 he became the owner of The Marion Star and was soon an influential person in that town He was a member of the Senate of Ohio, 1900-04, and was Lieutenant-Governor of the State, 1904-06 As a republican he was elected to the Senate of the USA in 1914, and he became prominent as an opponent of President Wilson's policy in the early days of the World War In 1920 Harding was nominated for the presidency and he won a signal victory over his Democrat opponent. The chief event of his term of office was the calling of the Washington Conference, but he died before the arrivator of his form were died before the expiration of his four years, Aug 2, 1923.

Hardinge Name of a noted Kentish at Wrotham, March 30, 1785, became a soldier and served in the Peninsular War He then turned to politics and in 1820 was elected an M P In 1828 he was made Secretary for War. and in 1830, and again 1834-35, he was Chief Secretary for Ireland In 1841-44 he was again Secretary for War From 1844-48 Secretary for Ireland In 1841-44 he was again Secretary for War From 1844 48 he was Governor General of India where he was responsible for the war against the Sikhs and the annexation of the Punjab In 1852 he succeeded Wellington as Commander in Chief of the British army He died Sept 24, 1856

of the British army He died Sept 24, 1856
In 1846 Hardinge was made a viscount and the title is still held by his descendants Charles Hardinge, a younger son of the 2nd viscount, entered the diplomatic service in 1880 In 1904-06 he was ambassador at St Petersburg and 1906-10 was Under-Secretary at the Foreign Office From 1910 to 1916 he was Viceroy of India, and in 1910 was made Baron Hardinge of Penshurst When he left India he resumed his former position at the Foreign Office. remaining there until 1920. Foreign Office, remaining there until 1920, when he became ambassador in Parls, a post he vacated in 1922

A railway bridge across the Ganges at Sara, opened in 1917, is named the Hardinge Bridge.

Hardingstone Village of Northamptonshire It is about a mile south of Northampton Here is one of the crosses erected by Edward I to mark the resting place of his wife's body on its way to London On Hardingstone Fields the Battle of

of imprisonment with hard labour This means solitary confinement and the discharge of some heavy task, making sacks or picking oakum This lasts for the first 28 days of the term of imprisonment, after that time unless they are unruly, the prisoners are given easier tasks, similar to those given to prisoners who are not sentenced to hard labour

Hardwick Hall Seat of the Duke is in Derbyshire, 6 m from Chesterfield, and is reached from Rowtharn station on the L MS Rly It was built by Elizabeth, Countess of Shrewshire about 1600 of Shrewsbury, about 1600, and from her it passed to the Cavendish family who have since retained it The long gallery is a fine apartment, but the house is chiefly famous for its windows (whence the saving, "Hardwick Hall more glass than wall") and its tapestries Near are the ruins of an earlier hall

Hardwicke Sir Cedric English actor Born in 1893 at Lyc in Worcestershire, he was educated at Bridg-north He made his first appearance on the stage in London and in 1914 was touring in South Africa with F R Benson's Shakes-pearcan Company In 1924 he settled in London and during the next few years made His successes included a great reputation parts in Back to Methuselah, The Apple Cart and others of G B Shaw's plays, as well as in The Farmer's Wife, Yellow Sands and The Barretts of Wimpole Street He has also acted for the films in the above the for the films in the characters of Nelson and Dreyfus In 1932 he published an autobiography, Let's Pretend Knighted New Year's Day, 1934

Hardwicke Earl of English title family of Yorke Philip Yorke, the son of a lawyer at Dover, was born Dec 1, 1690, and became a barrister In 1719 he was elected MP for Lewes, later becoming Solicitor-General and then Attorney-General In 1733 he was made Lord Chief Justice, and from 1737 to 1756 was Lord Chancellor From 1757 to 1762 he was a member of the Cabinet without office He died March 6, 1764 In 1733 he had been made a baron and in 1754 an earl The title is still held by a descendant, and the earl's eldest son is called Viscount Royston A younger son of the 1st earl, Charles Yorke, also became Lord Chancellor Hardwicke ranks as one of the greatest of British lawyers The Hardwicke Society, a debating society of London barristers is named after him barristers, is named after him

Hardwood Name used for the timber of broad leaved deciduous trees It includes mahogany, rosewood, ebony and ironwood, as well as oak, walnut and ash The world's hardwoods occupy 1200 million acres in temperate regions, and 3600 million acres in the tropics

Hardy English writer at Upper Bockhampton, near Dorchester, Dorset, June 2, 1840, he was educated at the grammar school there. He went to London to study architecture, winning prizes from the professional associations and working under Sir Arthur Blomfield Hardy's mile south of Northampton Here is one of the crosses erected by Edward I to mark the resting place of his wife's body on its way to London On Hardingstone Fields the Battle of Northampton was fought in 1459

Hard Labour Particular kind of imprisonment In Great Britain, under certain conditions, judges can sentence those convicted of crime to a term working under Sir Arthur Biomnield Hardy's real interest, however, was in literature, and he soon began to write His first novel Desperate Remedies, appeared in 1871 and Under the Greenwood Tree in 1872. Then came in quick succession, A Pair of Blue Lyes (1873), Far from the Madding Crowd (1874), The Hand of Ethelberta (1876), The Return of the Nature (1878), The Trumpet Major (1880), and Laodicean (1881), Two on a Tower (1882), The Mayor of Casterbridge (1886), The Woodlanders (1887), Tess of the D'Urbervilles (1891), Jude the Obscure (1895), and The Well Beloved (1897) Volumes of short stories are Wesser Tales (1888), A Group of Noble Dames (1891), and Life's Little Ironies (1894)

and Life's Little Fromes (1894)
Hardy was also a poet and published soveral volumes of verse His last great work was a dramatic poem of the Napoleonic wars, The Dimasts, regarded by some as the supreme achievement of his genius In 1910 he was given the Order of Alerit He died at his resi dence, Max Gate, Dorchester, Jan 12, 1928 He was twice married, but left no children His Life was written by his widow In 1931 a statue to him was erected in Dorchester. statue to him was erected in Dorchester

To Hardy recognition came slowly, but for many years before his death he was regarded many years before his death he was regarded as one of the great English writers. His style is remarkably lucid and his powers of description especially of scenes of rural life, have rarely, if ever, been excelled. Two other qualities help to assure him a place amongst the immortals. One is his philosophy of life and the other the intense local colour which regresters his years. His philosophy is that and the other the intense local colour which permeates his works His philosophy is that of fate, indifferent to suffering, caring nothing for either good or evil, playing with the lives of men and women as it will His books are full of the history and folklore of the country which he knew and about which he wrote with such detail He calls it Wessex, but to many it is the Hardy country, and its towns and villages can be easily recognised beneath the pseudonyms which he has given them donyms which he has given them

Sir Thomas Masterman English sailor Born at Kingston, Dorset, Hardy April 5, 1760, he entered the navy in 1793 having previously been in the merchant service. In 1708 began the friendship with Nelson for which he is known. They fought at the Battle of the Nile in the same ship, and at Trafalgar Hardy was captain of the Victory when Nelson it is said addressed to him his dying words. In 1806 he was made a baronet and he held naval commands for the rest of his life. He was Commander in Chief in South America and First Sea Lord of the Admiralty before 1834 when he was made Governor of Greenwich Hospital. He died at Greenwich, Sept 20 1839

Hare hame of a family of rodents which includes the rabbits. It is found in most parts of the world except Australia. In Great Britain the world is used for the brown hare (Lepus europaeus). It is about 2 ft long and weighs 7 or 8 lb. It has a short tail long cars and a cleft upper lip It runs swiftly by leaps and lives in grassy furrows The young of the harc is called the leveret The hare is used in coursing and is also hunted by harriers and beagles

Hare and Hounds is the name given to runs reross country. One or two runners called the hares go in front and scatter pieces of paper to show the way they have taken. The others follow the trail and try to catch the hares

Hare Sir John English actor Born in London May 16 1844 he was edu cated at Giggleswick He began to act in 1865, appearing in T. W. Robertson 8 comedies where he was a great success in the parts of old men. In 1875 he undertook the management of the Court Theatre from 1879 88 he and W. H. Kendal managed the St. Jamess and from 1889 95 he controlled the Garrick Theatre He produced some of A. W. Pinero s dramas including The Gay Lord Quex at the

Globe Theatre in 1899, and played in them personally Hare had many successes, notably as Spencer Jermyn in The Hobby Horse and as Benjamin Goldfinch in A Pair of Spectacles Knighted in 1907, he died Dec 28, 1921

Harebell Name of the Scottish bluebell (Campanula rotundifolia) as distinct from the wild hyacinth, or English bluebell The stems are slender and the lower leaves heart shaped, the upper being slighter and narrower in shape. The flowers are bell like and of a clear blue colour, nodding on stiff angled stems It is found on heaths and meadow land from July to September

Village of Middlesex It stands on the Colne, 5 m Harefield from Uxbridge The village is famous because here, at Harefield Place, now pulled down, Alice Spenser, Dowager Countess of Derby (b 1637), with her second husband, Lord Egerton, lived She was the Amaryllis of Spensor and for her Milton wrote Arcades Some almshouses founded by the Countess still stand

Harelip Vertical fissure, present at birth, on one or both sides of the middle line of the upper lip, so called from a fancied resemblance to the hare's cleft lip. It often accompanies the imperfect development of the roof of the mouth called cleft palate, and is amenable to surgical treatment.

Harem Name applied collectively to the quarter assigned to the females of a Mohammedan household and to the occupants Harems are found in Turkey, Persia and other Mohammedan countries, but the rules about the seclusion of women have been modified since the Great War In former dark harms an amendment scale wars man days harcms on a magnificent scale were main tained at Constantinople by the Sultan and elsewhere by other Mohammedan princes

Haresfield Hill or beacon of Gloucester-the Shire It is one of the Cots wold Hills and is near Gloucester It commands a magnificent view, and on it the Romans had a watch station In 1931 260 acres of the beacon became the property of the National Trust

Harewood Earl of English title held by the family of Lascelles. In 1796 Edward Lascelles, the head of a York shire family, residing at Harewood House near Leeds was made a baron and in 1812 an earl.
The title passed from one descendant to
another until it came in 1929 to Henry George
Charles Lascelles as the 6th earl He was born
Sept 9, 1882, and educated at Eton and Sand During the Great War he served with the Grenadler Guards, winning the DSO On Feb 28 1922 being then Viscount Lascelles, he married Princess Mary Their family consists of two sons the cider bearing the courtesy title of Viscount Lascelles The earl inherited a large fortune from his uncle, the Marquess of Charicarde who died in 1916
Harewood House, about 12 m from Leeds, is a fine building dating from the 18th century

The church has some interesting monuments.

Harfleur Scaport of France It is 6 m. the junction of the little river Lezarde and the Scine At one time Harfleur was the most important port in Normandy, and as such it was captured by Henry V in 1415, the English keeping it until 1440 Later the river became choked with sand and the port lost its trade In the 19th century this was revived by cutting a canal to the Seine Along this a new harbour

1764, he invented and built a machine for spinning cotton much more quickly by using eight spindles in a row. He called it the spinning jenny from the name of his wife. It is one of the inventions which have made the great modern cotton industry possible. In 1768 the machine was destroyed by those who found it would decrease the demand for labour, but the process operated another in Northerness. but Hargreaves erected another in Nottingham where he also built a mill. His progress was handicapped by lawsuits due to difficulties about the patents. He died April 22, 1778

Haricot French word originally devegetables, including a stew of mutton and vegetables, including beans It is now used for the French or kidney bean. In summer these are boiled in their pods and known as harrcots verts. In winter, when dried, a day's soaking in cold water is essential to make them

Harlech Town of Merionethshire It is GW Rly At one time it was a borough and the county town, but now it is a small pleasure resort with golf links and sands The chief object of interest is the ruined castle built in the time of Edward I With it is associated the popular song, "March of the men of Harlech"

Harlequin Character in pantomime Clad in a many-coloured glittering garment, he generally represents Columbine's lover, and is a type of lighthcarted galety and the enemy of the clown When masked he is supposed to be invisible

Harlequins Name of a London Rugby football club It dates Frail IEQ UIIIS football club It dates from 1871 and for long had a ground at Wands-worth Common Since 1908 the club has had its headquarters at Twickenham, on the ground of the Rugby Union

Harlesden District of north-west London It is part of the urban district of Willesden and is 7 m from the city

Harley Name of the family that once Robert, the 1st earl, and his son, Edward, the 2nd earl, made a valuable collection of books and manuscripts. In 1753 this enormous collection, the Harleian Manuscripts, was bought for the nation and it is now in the British Museum. The Harleian Society at 4 Trafalgar

Square, London, W.C., was founded in 1869
The London thoroughfare called Harley
St. is named after this family It runs from
Cavendish Square to Marylebone Road, and profession In or near Harley St. nearly all the leading physicians have their consulting rooms

Harlington Village of Middlesex. It Harrington is 13 m from London. Henry Bennet Earl of Arlington, a member of the Cabal, took his title from here Harlington has now become an industrial area, and is part of the urban district of Haves and Harlington Harlow Town of Essex. It is 24 m. from London, on the L N E. Riy At one time Hirlow was a market town and had manufactures of cloth and pottery. In 1928 Roman remains, including those of a temple, were unearthed here. Pop. 2960

was built, and there is now a certain amount of fishing and shipping Pop 2700

Hargreaves James English inHargreaves yentor He was born in Lancashire about 1745 and became a weaver at Standhill near Blackburn There, about 1764, he invented and built a machine for minutes extremely more guidely by well.

Harmattan Dry wind that blows from months between October and March It carries a great quantity of dust to the jungles of the south It is sometimes called "the doctor," because of its healthy properties

Harmattan Dry wind that blows from months between October and March It carries a great quantity of dust to the jungles of the because of its healthy properties

Harmattan Dry wind that blows from months between October and March It carries a great quantity of dust to the jungles of the because of its healthy properties

Harmattan Dry wind that blows from months between October and March It carries a great quantity of dust to the jungles of the because of its healthy properties

Harmattan Dry wind that blows from months between October and March It carries a great quantity of dust to the jungles of the because of its healthy properties

Harmattan Dry wind that blows from months between October and March It carries a great quantity of dust to the jungles of the because of its healthy properties

Harmattan Dry wind that blows from months between October and March It carries a great quantity of dust to the jungles of the because of its healthy properties

Harmattan Dry wind that blows from months between October and March It carries a great quantity of dust to the jungles of the because of its healthy properties

Harmonica Set of water-filled glass played with a wet finger and called sometimes the musical wet finger and called sometimes the musical glasses. The musical glasses were popular in the 17th century and were improved into a determinate instrument. Benjamin Franklin mounted the glasses on a spindle revolving over a trough of water The word is also used for a tov dulcimer of glass or metal

Harmonium Musical instrument in-Debain (1809-77) In it vibrators or free reeds, which were tongues of metal, set in periodic motion by air pressure induced by bellows which the player works by treadles, produce the tones of the harmonium. It has one or two keyboards and stops, which, by regulating the air supply, control the quality of tone

Harmony In popular musical phrase-sequence of sounds that is pleasing to the ear Technically it is the science dealing with the concord of sounds of varying pitch, based on counterpoint Pythagoras was the originator of the science, but the Greeks seem to have made little actual use of their knowledge. The modern development of harmony dates roughly from the Renaissance

Harmsworth Name of a family famous in journalism Alfred Harmsworth, a barrister, left seven sons Two became respectively Viscount Northcliffe  $(q \, r)$  and Viscount Rothermere  $(q \, r)$  Of the others two became baronets, Robert Leicester in 1918, and Hildebrand in 1922 Sir Robert was Liberal M.P for Caithness, 1900-18

Cecil Bisshopp Harmsworth, another brother. was a Liberal MP from 1908-10 and again, 1911 22 He was Under Secretary to the Home Office, 1915 and to the Foreign Office, 1918-22 Viscount Rothermere's only surviving son, Esmond, was Unionist MP for the Thanet division, 1919-29 All the members of the family are interested in newspaper companies.

Harnack Adolf von German theologian A son of Theodosius Harnack, Professor of Theology at Dorpat, he was born there, May 7, 1851 He studied under his father, and in 1874 was made Lecturer in Church History at Leipzig In 1876 he became Professor of Ecclesiastical History at Leipzig: in 1879 at Glessen, in 1886 at Marburg, and in 1889 being now precomised as one of the

In 1879 at Glessen, in 1888 at Marburg, and in 1889, being now recognised as one of the world's foremost theologians, he was transferred to Berlin. In 1905 he left his professorship to become Director of the Royal Library. He died at Heldelberg, June 10, 1930

A Protestant holding somewhat advanced views, Harnack wrote a great deal. Some of his books have been translated into English, these including The History of Dogma, What is Christianity? and Studies in the New Testament ment.

Harold I. King of the English, called Harold I. King of the English, called the Great, he claimed the throne on his father's death in 1035. It was also claimed by his halfbrother, Hardicanute, but Harold, having an English mother, Algiva, thought his claim was the stronger The country was divided between

them, Harold becoming king of the land north of the Thames, but in 1037, as Hardicanute was a continuous absentee, all England was put under Harold He reigned until his death at Oxford, March 10, 1040 keys the state of them in Greek literature to them in

Oxford, March 10, 1040

Harold II King of the English He was born about 1022, being a son of Earl Godwin About 1046 he was made Earl of East Anglia by his brother in law, Edward the Confessor In 1051 Godwin and his sons were banished, at this time we hear of Harold in Ireland and as ravaging the coasts of England Soon he returned, and in 1053 succeeded his father as Earl of Wessex. By his wars against the Welsh he won a good deal of fame, and in 1066 on Edward's death, the Witan chose him as king and he was crowned at Westmipster.

at Westminster at Westminster

Some time before this, Harold had visited Normandy, had gone with William on a cam paign into Brittany, and may have promised the English crown to the Norman duke Just after he became king, Harold, King of Norway, and Tostig, a rebellious brother of the English king, invaded England, as did William of Normandy Harold defeated the Norweglans at Stamford Bridge on Sept 25, and then led his army south At Hastings he met the Normans and there, on Oct. 14, 1066, he was mas and there, on Oct. 14, 1066, he was killed with two of his brothers. Harold married the widow of a Welsh prince, but his chief love was Edith, called Swan nech, who bore him five children. She discovered his body on the field of battle and had it buried at Waltham in the church he had built

Harold Name of three kings of Norway Harold Harold I reigned from 872 to 930 He was at first a chieftain, one of several, 930 He was at first a chieftain, one of several, in Norway, but succeeded in driving out the others and bringing the whole land under his own rule Harold II is unimportant Harold III was the king who invaded England in 1066 and was killed at Stamford Bridge Before becoming king in 1046, he had been leader of the Varangian guard at Byzantium He was called Hardrada, or 'stern in council

Haroun Al-Raschid Caliph of Bagdad A son of Mohammed Mahdi, he was born in Sept., 763 and when quite young conducted a successful war against the emperor at Byzantium In 786 he became caliph in succession to his brother and he reigned until his death in March 809 Haroun's reign is marked by the murder of the Barmecides and another victory over Byzantium, which again marked by the indirect of the Barmeedes and another victory over Byzantlum, which again paid him tribute. His real fame, however, is as living at Bagdad in great splendour, surrounded by wealth learning and luxury as immortalised in The Arabian Nights.

Harp Musical instrument common to all the twang of a taut bowstring. The earliest harps were bow shaped and two sided Later came three-sided harps and to day the harp tarts and to the part of the earliest harps and the sale was the sale and the sale an is the only instrument with mechanical fixed tones and separate strings for sharps, thats and naturals. The sound board next to the player gives resonance the hollow pillars contain rods to work the mechanism the comb contains the transposing mechanism and on the pedestal are the pedals. The strings are of coloured catgut except the lowest, which are of wire. The compass of the harp is 61 octaves.

of wire The compass of the narp is or the tarp is one of the oldest of musical The harp is one of the oldest times kings and Instruments and from earliest times kings and leaders have had their harpers. They were

Harpenden Urban district of Hert London, on both the L M S and L N E Rlys. Here is St George s co-educational school, and near by is Rothamsted Pop (1931) 8349

Harper's Ferry Town of West Vir55 m from Washington, where the Rivers
Potomac and Shonandonh meet. Here the
United States had an arsenal, which, on
Oct 16, 1859 was captured by John Brown
and a few followers but regained the following
day John Brown (q r) was hanged

Harpoon Dart like barbed weapon used for killing whales It was originally thrown by hand from an open boat. originally chrown by nand from an open boat. The older form is superseded now by the shotharpoon invented in 1870 by a Norwegian, Sven Foyn This is fired from a gun, and in the modern type carries an explosive charge which bursts in the whale s body

Harpsichord Musical instrument It is the most important of the policitor is the most important of the yboard instruments preceding the piano. In it the depression of the keys raised wooden 'jacks' in which were mounted quills, or leather plectra. These twitched, or plucked, the metal strings, giving a pleasing but unvarying un sustained tone. In the 17th and 18th centuries the harpstchord accompanied recitatives as an orchestral instrument but was most effective above used as a solo instrument. when used as a solo instrument.

when used as a solo instrument.

Harpy of a woman and the body of a vulture They defiled whatever they touched. June sent them to deprive the bilind Phineus of food, but later the sons of Boreas rescued him Acneas met them on his voyage to Italy. The harpy eagle is a large specie of eagle found in South America.

Harrier Breed of dog maintained for hunting hares by scent. The dogs smaller than fox hounds, may be 20 in high and have large pointed cars. They are maintained in packs, of which there are about 50 in England, and a number in Iroland. The name harrier is also used for men who run in cross country races. These form teams and matches are held, the competitors being six or some other number on each side.

Harrier also a genus of hawks Slender with long legs and wings and short beaks they are usually found in marsh districts where they proy upon fish and frogs as well as small birds and mammals. Though rare three species occur in Great Britain, the hen harrier, Montagus harrier and the marsh harrier

Harrington Urban district of Cumber land It stands on the coast 5 m from Whitehaven, and the chief industry is coal mining Pop (1931) 4125

Harrington Earl of English title borne since 1742 by the family of Stanhope William Stanhope, a leading politician in the time of George II, was the first earl A son of John Stanhope of Livaston, Derbyshire, he served as a soldier and a diplomat, chiefly in Spain and in 1730 was made a baron From 1730 to 1746 he was a Secretary of State and from 1747 to 1751 Lord Lieutenant of Iroland In 1742 he was made an earl and died Dec 8 1756 William, the 2nd carl and Charles, the 3rd earl, were both soldiers of note Charles, the 4th

carl, was the eccentric being who married the actress, Mary Foote, and Leicester, the 5th earl, was a noted sportsman, being perhaps the most prominent master of the foxhounds in his day He died in 1917 The earl's seat is his day He died in 1917 The earl's seat is Elvaston Castle, near Derby, and his eldest son is called Viscount Petersham

Harris Southern part of the Island of Lewis Off the west coast of Scotland, it is about 20 m long and forms part of the County of Inverness The soil is very poor, fit for little more than the grazing of sheep Fishing is an industry and the district gives its name to the tweed which is woven gives its name to the tweed which is woven here Tarbert on the coast is the chief town Leverburgh is a fishing port made by Lord Leverhulme, who bought much of the land Scarasta is a small watering place The Sound of Harris, dividing Harris from North Uist is about 7 m wide and 10 m long

It is the only channel for large vessels in the

Outer Hebrides

Harris Baron English title George Harris, born at Brasted, Kent, March 18, 1746, was the son of a clergyman and became a soldier After service in America he went to India, where he made his reputation by his successes against Tippoo Sahib He led the force that stormed Seringapatam and was

the force that stormed Seringapatam and was instrumental in the acquisition of Mysore by Great Britain In 1815 he was made Baron Harris He died, May, 1829

In 1872 the title came to George Robert Canning Harris, as 4th baron Born Feb 3, 1851, he went to Eton and Oxford, where he was famous as a cricketer From 1875 to 1899 he was captain of Kent, and in 1930, when 80 years old, he played in a match at Eton He had played also for England against Australia He was Under Secretary for India and tralia He was Under Secretary for India and then for War, 1885-89, and from 1890-93 was Governor of Bombay He is also known for his connection with the mining industry of South Africa He died, March 24, 1932

Harris Sir Augustus Henry English actor manager Glossop Born in Parls in 1852, he became an actor and appeared in Manchester in 1873 He is chiefly known as the manager of Drury Lane Theatre, London, which he took in 1879 There he produced melodramas and a popular series of Christmas pantomimes He died June 22, 1896, having been a knight since 1891

Harrismith Town of the Orange Free River Wilge, 261 m from Durban and 60 from Ladysmith, being connected with both by rallway It is the trading centre for a large district and, standing some 5000 ft high, is a health resort Pop 6000

Harrison Frederic English scholar Born in London, Oct 18, 1831, he was educated at King's College, London and Wadham College, Oxford For a time he was at Wadham as a tutor and fellow, and was one of the group who, taking up the teaching of Comte, founded the positivist movement in England Having become a barrister he settled in London and from 1877-89 was Professor of Jurisprudence at the Inns of Court. He is chiefly known, however, as a graceful and forceful writer on a great variety of subjects. He was also what would now by of subjects He was also what would now be called an uncompromising Victorian, as well as a stout individualist. He wrote lives of Cromwell, William the Silent and Ruskin The

others of his books In 1908, always a great climber, he wrote My Alpine Jubilee, in 1911, Autobiographic Memoirs, and in 1920 Novissima Verba He died at Bath, Jan. 14, 1923

Harrogate Borough and inland watering place of Yorkshire. It is 203 m from London and 18 from Leeds and is reached by both the L M S and L N E Riys It is chiefly known for its mineral springs, the waters of which are efficacious for various complaints. They belong to the corporation Visitors are also attracted by the beautiful surroundings in the vicinity is some of the finest Yorkshire scenery, with Fount Abbev, Bolton and other beauty spots with Fountains chief buildings are the Royal Hall, the opera house, and the winter gardens, as well as the various pump rooms, baths and hotels Harlow Moor and The Stray are open spaces Pop (1931) 39.785

Harrow Agricultural implement for turning over the surface soil. It consists of a square or rhombic shaped frame bearing a number of fixed steel teeth, or "tines" projecting downwards In the drag harrow the teeth are curved, but in the disc harrow they are replaced by saucer shaped cutting discs In the spring-tined harrow the teeth are curved and non-rigid.

Harrow Urban district of Middlesex It is 12 m from London and is served by the L MS, L NE, district and tube railways Its full name is Harrow-on-the-Hill and it has grown enormously in the 20th century Here is Harrow School (qv) A new hospital was opened here in 1931 Pop (1931) 16,378

Harrowby Earl of English title borne by the family of Ryder Sir Dudley Ryder, who was Lord Chief Justice, 1754-56 had a son, Nathaniel, who, in 1776, was made a baron His son, Dudley, entered the House of Commons and took office under Pitt in 1789 In 1804-05 he was Secretary of State for Foreign A fairs and from Secretary of State for Foreign Affairs, and from 1812-27 he was Lord President of the Council In 1827, when he was made an earl, he refused the office of Prime Minister In 1831-32 he had a good deal to do with the negotiations that led to the passing of the Reform Bill Although a Tory, he was in favour of religious

Although a Tory, he was in favour of religious liberty and other reforms He died Dec. 26, 1847, the last survivor of Pitt's colleagues His son, Dudley, the 2nd earl (1798-1882), and his grandson, Dudley, the 3rd earl (1831-1900), were both active politicians, the latter being Vice-President of the Council, 1874-78, and President of the Board of Trade, 1878-80 The present earl is descended from his brother who became the 4th earl. The earl's seat is Sandon Hall. Staffordshire, and his clidest son Sandon Hall, Staffordshire, and his eldest son is called Viscount Sandon

Harrowby is a village of Lincolnshire, just outside Grantham

Harrow School English public school Founded by John Lvon in 1571, it was for long a village school Towards the end of the 18th century it became one of the chief schools in the land, rivalling Eton and Winchester It accommodates about 700 boys and has a fine range of dates about 700 boys and has a line range of buildings and extensive playing fields. The buildings include the speech room, library and chapel, all modern. The old school, dating from 1611, with the fourth form room, still remains. A memorial hall was erected in honour of 619 Harrovians who fell in the Great War. The headmasters of Harrow have included Meaning of History, The Choice of Books, The of 619 Harrovians who fell in the Great War. Creed of a Layman and The German Peril are The headmasters of Harrow have included

Hartal Hindu word for a day of lamen-tation In 1930 and at other times a hartal, or day of the kind, was proclaimed as part of the campaign against British rule

Harte Francis Bret. American writer Born Aug 25, 1830, in Albany, he went to California about 1844, where he gained experience but little else, as a miner and a schoolmaster. He then settled in San Francisco, schoolmaster He then settled in San Francisco, where he worked as a compositor and then as a journalist on *The Golden Era* From 1864 70 he was sceretary to the California mint, and from 1868 70 he edited *The Occuland Monthly* He then lived in New York writing and lecturing until 1878 when he was appointed comercial agent at Crofeld in Germany From 1880 85 he was American consul at Glasgow, and the rest of his days were passed in England and the rest of his days were passed in England He died at Camberley, May 5, 1902 Bret Harte won great fame by his humorous

Bret Harte won great tame by his numorous poems and prose much of which appeared first in periodicals Mention may be made of his Condensed Novels The Luck of Rouring Camp The Outcasts of Poker Flat and Plain Language from Truthful James but there are many others

His verses are inimitable

Hartebeest Genus of antelopes native est of the antelopes, it is about 4 ft. high and reddish brown in colour It is disappearing rapidly from South Africa. Of soveral species, the handsomest is Hunter s, found in Somali

Hartford City and port of the United being the capital of that state and is 125 m from Boston It stands on the Connecticut River and is served by several railway lines There is a harbour and a good deal of shipping other industries are the making of motor-cars, typewriters and other kinds of machinery. It is also an insurance centre Pop (1931) 164,072

Hartington Marquess of Title borne by the eldest son of the Dule of Devonshire. Its most famous bearer was the statesman who became the 8th duke Hartington is a village in Dovedale

Hartland Village of Devenshire In the north of the county, it is 4 m from Clovelly Four miles farther is Hartland Point, a cape on which a lighthouse stands

Hartlebury Village of Worcestershire on the GW Riv It is chiefly famous for its castle, the residence of the Bishops of Wor-cester since the 13th century. The present building dates from the 18th century

Hartlepool Borough and scaport of Durham It stands on the coast 18 m from Durham and 247 from London on the LNE Riy The principal industries are shipping shipbuilding and fishing There is a good harbour The andwell Gate is a relic of the city a past With West Hartlepool it is a good harbour. The Sandwell Gate is a relieof the city s past. With West Hartlepool it
was bombarded by the Germans. Dec. 16, 1914.
A good deal of damage was done to property
and 113 persons were killed a further 300 being
wounded. Pop. (1931) 20.545.

Hartlepool. West. County borough
ham. It is 245 m. from London and 2 m. to
the south of Hartlepool. being served by the

Christopher Wordsworth, C J Vaughan and H M. Butler Among its pupils were Byron, Peel, Palmerston and, more recently, Baldwin, Churchill and Galsworthy For many years the school has been famous for its music which is quite modern, includes the watering place of Seaton Carew, to the south and Stranton with an old church Pop 68,134

Hartshorn Old name for liquid am-ammonia These were prepared originally by the destructive distillation of the horns and hoofs of deer and other animals, the impure-ammonia solution being known as spirit of hartshorn and the carbonate as salt of harts horn See AMMONIA

horn Sce AMMONIA
Harty Sir Herbert Hamilton British conHarty ductor and composer Born at
Hillsborough Co Down, Dec 4, 1879, hestudied music in London and elsowhere Homade a reputation with his piece, An Irish
Symphony, which was followed by others In
1920 he was appointed conductor of the Hallé
Orchestra in Manchester, and in 1925 he was
knighted In 1931 he was prominent as a critic
of the B B C programmes

Harvard
John Founder of Harvard
University The son of a
butcher he was born in Southwark in 1607

riarvard University The son of a butcher, he was born in Southwark in 1607 Pe went from school at Southwark to Emmanuel College Cambridge In 1637 he wont manuel College Cambridge In 1637 he wont-to America and was chosen minister of a church at Charlestown, now part of Boston, but in the next year Sept. 14, 1638, he died. He left some property to a college which was named after him and developed into Harvard University Memorials to Harvard in England. University Memorials to Harvard in England are a chapel in the cathedral at Southwark and Harvard House at Stratford on Avon, which was built by his maternal grandfather.

Harvard University One of the stiles of the United States It is at Cambridge, now part of Boston Some Cambridge gradu-ates founded a college there, and in 1637 the-first building was opened. It first president was Nathaniel Laton, and it was strongly sectorian, but all religious tests have now been abolished...

It is governed by a board of overscers and a corporation, its head boing the president To day the university has a fine range of buildings in and near Boston and its activities. Cover every branch of learning To the original Harvard Collego a medical school and a law school were added in 1782 and 1817 respectively. Schools of engineering and other branches of applied science were established later. In 1909 a school of business administration was opened The university has an observatory in the Andes, a school of forestry and a school of agriculture. It has libraries and museums, halls of residence and many other buildings In-1930 a sum of £600,000 was given to the university to build a college on the lines of those at Oxford and Cambridge It is famous for its sporting activities Its students, which include women number (1932) 8 536

Harvest Mite Familiar name for sixa family of velvety ticks not insects, also called the harvest bug In Britain the common crimson haired microtrombidium autumnals, infests grass and herbage and burrows into the skin of man and other animals. It may be destroyed by ammonia. The adults feed on insects

Harvey Sir George Scottish painter-Born at St Ninlams in 1800, be

studied painting in Edinburgh and soon made a reputation He was one of the original associates of the Royal Scottish Academy and in 1864 was made its president. His chief pictures deal with historical incidents such as "Covenanters Preaching" and "Bunyan in Bedford Goo!" He was knighted in 1867, and dled, Jan. 22, 1876

HARVEY

Harvey William English physician He was born at Folkestone, April 1, 1578, and was educated at King's School, Canterbury He studied medicine at Cambridge and Padua and settled down in London about 1603 He became physician to St. Bartholomew's Hospital, lecturer at the College of Physicians, and medical attendant to James I and then to Charles I. He was in attendance on Charles at Oxford during the Civil War and was made warden of Merton College He died

In London, June 3, 1657
Harvey is famous for discovering the circulation of the blood, which he explained in his

To commemorate Harvey's work the Harvey's founded in 1831. In 1931 the centenary of its existence was celebrated.

Harwich Seaport and borough of Essex It stands on the estuary formed by the Orwell and the Stour, 70 m from London There is a large harbour and from Parkestone Quay the LNE Rly rom Parkestone Quay the James a regular service of boats to Amsterdam, the Hook of Holland, Hamburg and elsewhere It is also the ferminus of the ferry service to Zeebrugge Fishing is an industry and there are one or two manufactures. The borough includes Dovercourt and is a famous yachting centre. During the Great War Harwich was an important station for the navy. An old seaport, the town sent members to Parliament from 1804 to 1867. Pop. (1931) 12,700

Harwood Great. Urban district and market town of Lancashire It is 5 m from Blackburn, on the L M.S Rly The principal industries are cotton manufacturing and coal mining It is called Great Harwood to distinguish it from Little Harwood, a village 2 m from Blackburn Pop (1931) s village 2 m from Blackburn 12.787.

Harz Mountains Range of mountains in Germany In the north-west of the country, they are chiefly in Brunswick, between the rivers Saale and Leine They extend for about 60 m from east to west and are about 20 m. broad The average height of the range is about 1000 the country to 1000 the country the Decelor in 2750 the

2000 ft. and the highest, the Brocken, is 3750 ft.
The Harz are famed as a pleasure resort and for their mineral wealth

Therein are Harzburg and other centres for tourists and pleasure-scekers. The scenery is very fine, and legends gather round almost every hill and valley The minerals found include sliver, lead and copper, the mining centres are Clausthal and Mansield.

Hasdrubal Carthaginian soldier a son of Hamilear Barca and a brother of Hannibal he lived in the 3rd century BC He went to Spain with Hannibal and in 218 was left in command there whilst his brother marched into Ifaly to ten years he fought the Romans, and in 207 led his army into Italy He was met and defeated by the Romans at the Battle of the Metaurus, where he was killed

Spain There he made a treaty with the Romans, dividing the country between them In 221 he was murdered

Hashish Preparation of the hemp plant, especially the Indian variety, cannabis indica It possesses narcotio and intoxicating principles The dried leaves and small stalks are smoked, made into a confection, or infused for drinking The most favoured forms come from the flowering and fruiting heads The word assassin means really 'hashish eaters'

Haslar District of Gosport Here is a country Opened in 1753 it has since been enlarged. It accommodates over 2000 patients and the grounds cover 60 acres On Haslar Point, at the entrance to Portsmouth Harbour, the Navy has a submarine depot

Haslemere Borough and market town of Surrey It is 43 m from London, on the S Rly. Near by are Hindhead and other beauty spots also Aldworth, once the residence of Lord Tennyson Pop (1931) 4340

Haslingden Borough and market town of Lancashire It is 205 m from London, by the L.M.S. Rly, and 19 m from Manchester. There are collieries and quarries, and also textile manufactures. Pop (1931) 16,637

Hastings County borough and watering from London, on the S Rly A fine promenade runs for 3 m along the sea front to S Leonards, which is within the borough Apart from catering for visitors, fishing is the chief industre, there being a distinct fishing quarter and a fish market. An old town, Hastings is one of the Clique Ports and was long a flourishing search. Par. (1921) 65 100 ing seaport Pop (1931) 65,199

Hastings Town of N Island, New Zealand It is 12 m from Napier The town, the business centre of a district where sheep are reared, has a retrigerating works and other industries. It was seriously damaged by the great earthquake of 1931 Pop (1932) 16,750

Hastings Battle of Battle fought between the Norman invaders of England and the Anglo-Saxons, on Oct 14, 1066, and regarded as one of the decisive battles of the world William, Duke of Normandy, who claimed the English crown on the death of Edward the Confessor, landed at Pevensey and marched inland Having just defeated the Norwegians at Stamford Bridge Havild hurded couth to most kim cellesting Harold hurried south to meet him, collecting reinforcements on the way He took up a position on a hill, about 6 m. from Hastings, and there the Normans found him. The battle was stubbornly contested, but after a time William tried a ruse. Some of his men pretended to fiv. Many of the Saxons followed the state of the state of the saxons followed the pretended to fiv Many of the Saxons followed, thus breaking their ranks, but the huscarles stood firm around their king. Shooting in the air, the Norman archers killed a number of them, including Harold and his two brothers The Saxon Army was destroyed, and William was front a recent the Larged. and William was free to march to London This battle, which is sometimes called Senlac, is depicted on the Bayeux Tapestry

Hastings his orother marched into Italy
I or ten years he fought the Romans, and in
207 led his army into Italy He was met
and defeated by the Romans at the Battle of
the Metaurus, where he was killed
Another, Hasdrubal, became, in 228 BC.,
commander of the Carthaginian Army in

marquess, notorious as a spendthrift and a sportsman, died without sons (Nov, 1868), Hatchment dwelling place a deceased the title of Marquess of Hastings became person's armorial bearings. For unmarried sportsman, died without sons (Nov. 1868), the title of Marquess of Hastings became extinct. The earldom of Loudoun, however, passed to his sister, who also inherited the estates The seat of the Marquess was Doning ton Hall near Derby

The English Barony of Hastings is held by the family of Astley It dates from 1925, but was in aboyance from 1391 to 1841 In that year it was given to Sir Jack Astley, a des condant of John Hastings, the 1st baron, who was a claimant to the Scottish throne

Hastings Sir Patrick English lawyor Born in 1880, he was educated at Charterhouse School and became a mining at Charterhouse School and became a mining enginee: Soon he turned to the law, became a barrister and in a few years had a large practice In 1919 he was made a K C, and in 1922 he entered the House of Commons as Labour M P for the Wallsond division In the Labour Ministry of 1923 he was Attorney General but in 1926 he resigned and left political life Sir Patrick has written two plays

Hastings Warren English administrator Born at Churchill, Oxfordshire, Dec 6, 1732, he was a son of Rey P Hastings and was aducated in London, inishing at Westminster School In 1750 he went to India as a writer under the East India Co, and he was one of the little army that marched to Calcutta with Clive He was made President at Murshidabad in 1758 and from 1761 64 was a member of the Council of Bengal His imperious nature made him difficult to work with, and in 1764 he returned to England In 1768 he was again in India as a member of the Council of Madras

In 1772 Hastings was made President of the Council for Bengal, and in 1773 the first Governor General of India, a post which he held for 12 years In spite of the opposition of Sir Philip Francis and other members of the Council, Hastings did a great work and the British authority in India is due in no troubly measure to big placers of other ways. small measure to his pioneer efforts. He was however, unscrupulous in his methods of raising money, and in other ways acted in an arbitrary and perhaps unjust manner The result was that, when in 1784 he resigned and

result was that, when in 1784 he resigned and returned to England, there was a loud and insistent demand for his impeachment.

The trial of Hastings before the House of Lords, in Westminster Hall, aroused great interest at the time, and has not ceased to be a subject of controversy. It began in Feb. 1788 Arrayed against him was the united cloquence of Burke, Fox and Sheridan and for seven years the proceedings continued The chief charges were his share in the murder of Nuncomar, the robbery of the begums of The chief charges were his share in the murder of Nuncomar, the robbery of the begums of Oudh and the hiring out of British troops to make war on the Rohillas The House of Lords acquitted him in April, 1795 The trinicost Hastings his fortune, but the East India Co came to his rescue and he was able to buy Daylesford in Worcestershire, the old read of the family There he lived quietly until his death on Aug 22 1818

Haswall Market town of Durham It Hathors were kindly fates

Haswall is 2.2 m from London on the Hatry Charles Charles English fin

LNF Riy The chief industry is coal mining | husiness in London and became a successful Pop 5860

or widowed persons the panels are painted black, should a husband or wife survivor, the survivor's half of the achievement is painted white The hatchment is shaped like painted white The hatchment is shaped like a lozenge The custom was for the hatch ment, after the funeral, to be placed in the church and there are still many of them in country churches

Hatfield Town of Hertfordshire, in full Bishop's Hatfield It is on the Lea, 17½ m from London on the LN L Rh Apart from Hatfield House (7 v) there are the ruins of a palace, once the residence of the bishops of Ely Before coming to the throne, Queen Elizabeth lived here Pop 5700

Hatfield Village of Yorkshire (WR) It stands on the Don, 7 m from Doncaster The opening of coal mines has altered the nature of the village which is now a populous colliery centre The district round Hatfield, called Hatfield Chase, was once a forest used by the kings for hunting It lay between the rivers Don, Idle and Thorne Much of it was a swamp and in 1626 it was drained by Dutch engineers

Hatfield House Residence of the Marquess of Salis bury It was built early in the 17th century by Robert Ceell, who had just acquired the estate, and is one of the finest Jacobean houses in England The hall, the long gallery, the library and the chapel are fine apartments The house has a valuable collection of portraits and other works of art, as well as of state papers The park in which it stands is 10 m papers The parin circumference

Hatfield Peverel Town of Essex Chelmsford on the LNE Rly Pop 1300

Hathaway Anne Wife of William Shakespeare The daughter of Richard Hathaway, a farmer at Shottery, Warwickshire she was born in 1556 On Nov 28, 1582 she married the poet whom she survived, dying in 1623 She had four child ren but only two, both daughters, attained maturity Ann Hathaway's cottage at Shotter, is public property, and the adjacent farm has been purchased and renamed Hathaway farm

Hathersage It is 34 m from Man chester and 161 from London, on the L M 9 Rly Around the village is some of the finest of the Derbyshire scenery. Little John is said to have been buried in the church and Pins and needles are made here. Pop 1600 Little John Is

Hathor Egyptian goddess Originally a sky deity she was often depicted as a cow, or with a cow-cared human face A life size statue of a cow in sandstone wor shipped at Hathor in the 15th century B c was uncarthed at Thebes in 1906 The Hathor The Hather Temple at Dendera still stands Hathors were kindly fates

business in London and became a successful company promoter He founded the Com-mercial Bank of London and, until this Hatcham District of London About mercial Bank of London and, until this city on the S Rly, it is in the boroughs of London and until this Deptford, Lewisham and Camberwell her alsed monor by pledsing securities with

the banks of the stock was forged, and the shares of his On Sept 19 he made companies fell heavily a full confession and steps were taken to deal with the situation In Jan, 1930, he and his associates were tried and found guilty All were sentenced to penal servitude, his sentence being for 14 years The amount of money involved in this failure was over £13,000,000, but the net loss was a much smaller sum

Hatteras Island and cape of the United States It is in N Carolina Heavy seas render the cape dangerous to navigation

Hatton Sir Christopher English courtier Born at Holdenby, Northamptonshire, in 1540, he became a lawyer He is chiefly known as one of Flizabeth's favourites, her admiration being due, presumably, to his fine figure and gallant bearing. She employed him on public business, secured for him a seat in Parliament, and in 1587 made him Lord

Chancellor He died Nov 20, 1591
Hatton Garden, a London thoroughfare between Holborn Circus and Clerkenwell Road, perpetuates his name, as his residence

was therein

Hauberk Piece of armour The was applied originally chain mail protecting the neck From at The word From about the 12th century onwards it was used for a tunic or coat of chain mail A garment worn as penance in the time of Chaucer was also known as a hauberk

Hauptmann Gerhart German author ho was born in Silesia, Nov 15, 1862, his father being the keeper of the village inn He was educated at Breslau, studied art in Italy and travelled In 1889 he published his first notable work, a play, Vor Somenaufgang (Before Sunset), a realistic piece which had great influence in Germany and made him known abroad A number of other dramas, comedies and trag edies, the latter including The Weavers, followed He also wrote novels, including The Island of the Great Mother, 1924, which, like others of his works has been translated into English, and a poem Ihma In 1912 he received a Nobel prize for literature

Hausa Negroid people mostly living in the Sudan and Nigeria, where they form a number of native states Their Their language, spol on by about 15,000,000 people, is Hamitic and is the lingua franca of the Sudan The Hausa, who are mainly Mohammedans, are physically a fine race

Hautboy English way of spelling hautbous, a wooden high toned musical instrument. In Handel's time it was musical instrument written hoboy and is now oboc

Havana City and capital of Cuba It bay which forms a fine natural harbour There is an old town with narrow streets and a new town with fine thoroughfares and squares
It has a broadcasting station (49 5 M)
Havana is famous for its manufacture of

tobacco and cigars, whilst sugar is another staple industry There is much shipping, for which there are modern docks Railways which there are modern docks ranney connect the city with the other towns of the island Havana was founded in 1514 and island Havana was founded in Pop connect the city with the other towns of the island Havana was founded in 1514 and Havana was founded in 1514 and Still bears traces of its Spanish origin Pop 1930) 589 079

Hawaii also called Owyhee It belongs to the United States and lies 2000 m to the SW of San Francisco Its area is 4016 sq m.

It was soon discovered that some Portsmouth and 67 from London on the S was forged, and the shares of his Rly It stands on Langstone Harbour and was at one time a prosperous port industries are tanning, brewing and malting Pop (1931) 4264

Havel River of Germany It rises in the state of Mecklenburg-Strelltz and flows chiefly S to Spandau where the Sprecalls into it Having passed Potsdam it flows mainly W until it falls into the Elbe near Wittenberge Its length is 220 m, and most of it is navigable, whilst canals connect it with other German rivers

with other German rivers

Havelock Sir Henry English soldier He was born in Sunderland April 5, 1795, and was educated at Charter house In 1823 he went to India, and saw a good deal of active service against the Afghans and the Sikhs, rising to command a division in the Persian War of 1856 and to be Adjutant-General When the Indian Mutiny began he led a force from Allahabad to Cawapore, which he entered He then advanced towards Lucknow, but after fighting eight battles was forced to fall back until reinforcements arrived With these he made his wav into Lucknow, but was beseiged in the residency until relieved by Sir Colin Campbell A week later, Nov 24, 1857, he died of dysentery Havelock was made a knight and a baronetcy was conferred on his son, Sir Henry Havelock-Allan who won the V C, and was for a time an M P He was killed by the Afridis in 1897

Haverfordwest Borough, market town and river port market of Pembrokeshire also the county town and river pori of Pembrokeshire also the county town It stands on the West Cleddau River, 8 m from Milford Haven on the GW Rly The old town is on one side of the river and the suburbs of Prendergast and Cartlet on the other, two bridges connecting them A trade in agricultural produce is carried on In the days when they were reall it was a programmer. days when ships were small it was a prosperous port. Pop (1931) 6113

Havergal Frances Ridley English Worcestershire, Deo 14, 1836, the daughter of a clergyman, she wrote an enormous quantity of verse of a religious character, including many hymns She died June 3, 1879

Haverhill Urban district and market town of Suffolk It is 18 m from Cambridge and 55 from London, being served by the L N E Rly The chief industries are the making of clothing and boots. There

is an agricultural trade Pop (1931) 3827
Another Haverhill is a city of Massachusetts
It is on the Merrimac River, 32 m from Boston, and is a manufacturing centre Pop 48,710

Havre Seaport and important railway terminus of France, also called Le Havre It is on the estuary of the Seine, 55 m from Rouen and 143 from Paris

There is a regular steamer service with Southampton, and from here there is a large export trade to America and Britain During the Great War it was a base for the British forces, and immense numbers of men and quantities of stores passed through it Other industries are shipbuilding, the manufacture of machinery, oil refineries and engineering works Havre was made a scaport in the 16th

order (leontodon)

Hilo is the capital tropical products are grown and exported On the island are Mauna Loa and Mauna Kea, two of the greatest volcanoes in the world, which form part of its greatest mass of volcanic material. They are nearly 14 000 ft high. The group of islands of which Hawaii is the

largest, are known as the Hawaiian or Sand wich Islands The others are Mani. Oahu. wich Islands The others are Maui, Oahu, Molokai, Kauai, Lanai, Niihau and Kahoolawe There are many smaller ones all uninhabited Honolulu on Oahu is the capital of the group Apart from Hawali itself, they cover 2440 sq m There is a naval station at Pearl Har bour and there are railways on the larger islands Pop (1930) 368,300

The islands were discovered by Captain Cook in 1778 and were for many years independent In 1893 the queen died and a republic came into being but this only lasted until 1898 as in that year the United States annexed the islands The English called them the Sandwich Islands and by this name they were long known

Hawarden Village of Flintshire It the LNE R! It has become a coal mining centre but its chief interest is the castle long the residence of W E Gladstone This was built in the 18th century upon the site of an older building of which the ruins remain in the park. It was the seat of the Stanleys and then of the Glynnes, from whom it passed to the Gladstones It still remains in the family In Broadlands House is the Glad stone Museum Pop 6500

Hawes Market town of Yorkshire (NR) the LNE hly It is chiefly a market for agricultural produce and is also a good centre for tourists

r tourists Pop 1500 Hawes Junction an important junction on the LMS system, is 6 m from the town A terrible accident took place here on Christmas

I ve, 1910

Haweswater Lake of Westmorland It is 14 m from Pen rith and 9 from Shap in the E of the Lake District It is 24 m long and is surrounded

by somewhat desolate scenery

Like Thirlmere the lake is used to supply Manchester with water and in 1930 it was decided to onlarge it for this purpose The decided to enlarge it for this purpose scheme includes raising the level of the lake by 90 ft and the destruction of a church, a vicarage, an inn and three farm houses at Mardale

Hawfinch Stout-billed bird of the fluch family (coccollirausies rulgaris) It is distributed over Europe Asia and N Africa, and is common in England. It is 7 in long The plunings of the male is deep brown on the back with blue black wings and a white tipped tall. The females lay and a white tipped tall. The females lay Hawick Burgh and market town of Roxburghshire It stands on the Teviot 53 m from Edinburgh on the L. F. Rily The town is a centre of the wool industry and has a large cattle market industry and has a large cattle market. The common riding is a festival held here every year. A magnificent X ray institution was clited to the town by Sir Thomas Henderson in 1913. Pop (1931) 17,050.

Hawk diurnal birds of prey not being vulture or eagles. Thus limited it comprises a sub family including the harriers represented in the latter in the constant of the constant.

Sugar, coffee and other sparrow hawk besides the S American cara cara sub family

Genus of biennial or peren

Hawkbit denus of premium of poster product (leonlodon) The yellow flower heads, all their florets being strap shaped, appear on numerous simple or branched milk juiced stalks springing from the root stock Unlike dandellons the pappus hairs are feathery Two British species have leaves bearing forked hairs one is smooth leaved The herb is found in Europe and parts of Asia Hawke Baron English title held by the family of Hawke Edward Hawke a Londoner, was born in 1705 and entered the navy In 1747 he commanded the floet which defeated the French off Cape Finisterre He was then knighted and elected

MP for Bristol, but remained on active ser vice In 1758, when the Seven Years' War began, Hawke went to the Mediterranean, and in 1759 he won his greatest victory by crushing the French Fleet in Quiberon Bay From 1766 71 he was First Lord of the Admir alty, and in 1776 was made a baron He died Oct 17 1781

Hawke s descendant Martin Bladen Hawke. the 7th baron, was born Aug 16 1860, and won fame as a cricketer He played for Eton and Cambridge, and captained teams in Australia, 1891 92 and 1894 95, and in S Africa, 1895 96 but he is best remembered as the captain of the Yorkshire team during its greatest days, 1883 to 1910

The British critish Hawke was sunk by a

The British cruiser Hawke was sunk by a German submarine, Oct 15, 1911 off the E coast of Scotland, over 500 officers and

men being lost.

Hawkes Bay District of New Zea 4000 sq m in North Island, and is a region in which timber felling and sheep rearing are The chief ports are Napler, the chief industries Gisborne and Hastings, all of which were severely damaged by an earthquake in 1931

Hawkesbury River of New South Wales It is 330 m long and falls into Broken Bay about 26 m from Sydney It is formed by the Nepean

and Grose rivers The English title of Baron Havesbury is borne by the Earl of Liverpool In 1786 it was given to Charles Jenkinson, who was made earl in 1796 His son Robert Banks Jenkinson, the 2nd earl was known as Lord Hawkesbury until he succeeded to the earldom in 1808 He was Foreign Secretary in 1801 02 Hawkhurst fown of Kent It is the S Rily At one time Hawkhurst was a

market town and a centre of the cloth manu facture Pop 3340

Hawking Sport of hunting game with hawks or falcons also called falconry It is a very old pastime having been known in China and Greece before the Christian era It is or has been practised in many of the countries of the world Asiatio as well as European In England falcoury was practised by the Anglo Saxons and for some seven centurics it was perhaps the chief sport of the richer clas es

Great care was taken in choosing and training the hawls and kings and nobles had for rulture or carles Thus limited it comprises used in hawking were the pergrine falcon, a sub family including the harriers repringerfalcon, merlin and others belonging to the atel in Britain by the goshawk and the long winged class and the sparrow bawk. goshawk and others of the short-winged class The female bird, being much the larger, was usually taken, although the male bird, called

the tiercel, was sometimes used

When fully trained and ready for the field, the hawk's eyes were covered with a hood, and was carried on the wrist of the falconer, being attached thereto with straps called jesses Sho was also provided with holls so that, having been flown, her whereabouts could be located. The falconer also carried a lure and a cadge, the former for the bird's food and the latter to carry her on He wore a leather glove to protect the wrist When the game was to protect the wrist When the game was sighted the hawk was unhooded and loosed by the falconer, who was on horseback and who was often accompanied by dogs to retrieve the fallen bird or animal. In the 20th century there was a revival of the sport, and a British Falconers' Club was founded

Hawkins Sir John English seaman Born at Plymouth in 1532, he was the son of a sailor and went to sea when a boy In 1562 he obtained command of a ship, which was profitably engaged in carrying slaves from Africa to S America In 1567 he led a small fleet on the same errand, Dral e being one of his officers. He got a great deal of plunder but he lost this in a fight with the Spaniards and narrowly escaped with his life He was later chosen MP for Plymouth in 1572, and served as comptroller of the navy whilst carrying on a shipbuilding business at Deptford He fought his own ship the Victory, against the Spaniards in 1588, and was knighted Then he took to the sea again, joining in plundering expeditions, and he was with Drake

when he died off Porto Rico, Nov 12, 1595
Hawkins had an only son, Richard He,
too was a sailor, making yoyages undor
Drake and fighting a ship against the Armada In 1594, when plundering Spanish possessions America, he was beaten in a sea fight and taken prisoner He was a captive until 1602, being knighted and elected MP soon after his release He died April 17, 1622

Hawkshead Village of Lancashire It is situated in the Lake District, being about a mile from Bowness, and is chiefly interesting because Wordsworth was educated at the grammar school This was closed in 1910

Hawkstone Village of Shropshire It famed for its hall, long the scat of the Hill family It dates from the early 18th century and stands in a fine park. The hills near are

called the Hawkstone Hills

Hawkweed Large genus of milk-the composite order (hieracium). They are the composite order (hicracium). native to N temperate and Arctic regions. The yellow or orange flower heads, sometimes brown striped, with all the florets strap shaped, are solitary or clustered, the pappus hairs are

rough and brown. Among many British species is the mouse ear, H piloscilla

Hawkwood Sir John English soldier
Born about 1330, he became a soldier, and for his services at Crécy and Politiers Fdward III made him a knight Soon after 1360 he went to Italy, where he gathered together a body of mercenaries called the White Company Their services were hired out to rulers who wanted help, and at their head Hawlingad wan renown as and at their head Hawkwood won renown as one of the most famous fighters of the day He died in Florence in 1394

Haworth (W.R.) It is about 4 m. from Keighlev on the L.M.S. Rly The village is chiefly famed for its association with the Brontes Patrick Bronte was curate here, 1820-61, and here his daughters lived, wrote, and, save one, are buried The parsonage is now a Bronte Museum Pop (1931), 5912

Hawthorn Small tree found in Great Britain and other parts of the temperate regions. It werrs white or red flowers which grow in large clusters and arevery fragrant when they bloom in the spring Hawthorn, also called the may and the whitethorn, beers berries called haws It belongs to the natural order respector

Village of Midlothian Hawthornden Village of Midlothian bursh on the LNE Rly The glen through which the Esk flows is a noted beauty spot. and the place is also famous as the home of

William Drummond, the poet HAWTHORNDEN PRIZE In Drummond's memory the Hawthornden Prize was founded by Miss Alice Warrender This is a sum of by Miss Alice Warrender This is a sum of £100 given each year to the author of an imaginative work. The author selected must be under 41 years of age It has been won by siegfried Sassoon with Memoirs of a For Hunt-ing Man, and Lord David Cecil with The Strict en Deer

Hawthorne Nathaniel American Born July 1804, at Salem, Massachusetts, the son of a sailor, he went to Bowdoin College, Maine, but took up no regular profession a good deal, but this was not very profitable, and in 1839 he was given a post in the custom house at Boston In 1841 he left this to join the Brook Farm community, a Socialist experiment, but was forced to accept employment again, this time as a surveyor at Salem He was there until 1850, and in 1852 he settled at Concord From 1853-57 he was consul at Liverpool, after which he travelled in Europe before returning to Concord He died at-Plymouth, New Hampshire, May 18, 1864

One of the greatest of American writers and certainly one of the most charming, Haw-thorne writes delightfully of the New England thorne writes denighting of the New Edgisha he knew and of its Puritan people His most notable book is The Scarlet Letter Hardly less powerful in plot and attractive in style is The House of the Seven Gables Turce Told Tales are short stories, as are the charming Mosses from an Old Manse His other writings. include Fanshauce, his first novel, some volumes of historical stories for children The Wonder Bool, The Snow Image, The Rithedale Romance and Tanglewood Tales. His descriptions of England are in Our Old Home His son. His son. Julius Hawthorne, wrote a number of novels

Hawtrey Sir Charles Henry English actor manager Born Sept 21, 1858, he was a son of Rev John Hawtrey, English 21, 1858, he was a son of Rev. John Hawter, a master at Eton and a grandson of Rev. Edward Craven Hawter, who was headmaster of that school, 1834-52 He went to Rugby and Oxford and became an actor, first appearing on the London stage in 1881 in 1883 he adopted a German play and calling it The Private Secretary produced it in London A conspicuous success, it made Hawtrey's reputa-tion, and for the next 30 years he was one of the most popular comedians on the stare, numerous successes standing to his credit. As a manager he controlled Her Majesty's

Theatre, and then The Comedy He knighted in 1922 and died July 30, 1923

Haxey Village of Lincolnshire It is in the Isle of Axholme, 7 m from Gainsborough and has a station on the L N E Rly It is famed for the game called Haxey Hood that has been played there for over 600 years It is a kind of football and in it hundreds of players take part On the afternoon of Jan 6 the game begins with a procession of players to the base of an old village cross. The lord of the hood wears a red coat and a hat wreathed with flowers and carries a wand made of 13 willows tied 13 times with willow bands He has a retinue of 12 men, called boggans, and a fool dressed in motley, carrying a rod with bladder attached The fool makes a speech standing upon the base of the cross and invites every one to take part in the ancient game. The lord then leads the way to a field on the top of the hill near where the game is played. It originated in a struggle for the possession of a hood lost by Lady Monbray

Hay Grass, clover and other herbage mown and dried for use as fodder It is derived from rotation crops or permanent meadow and pasture Sun-drying reduces derived from rotation crops or permanent meadow and pasture Sun-drying reduces the moisture from three fourths in the green plants to one fifth in the dry Hay making, once done solely by manual labour, is now done by mowing machines self acting horse rakes and hay clevators The British hay harvest for 1930 was 14,426,000 tons A ton or load of hay comprises 36 trusses, each weighing 56 lb for old, or 60 lb for new hay Town of Brecknockshire It is on the Ry Wyc, 21 m. from Hereford on the G W

Rly It is a good centre for the Black Mountains There are remains of a castle Pop 1600
Hay is the name of a town of New South
Wales In the Riverina district, it stands on the

Murrumbidgee 400 m from Sydney Pop 2500 A river of Canada is called the Hay It rises on the borders of Alberta and British Columbia and flows for 350 m. to the Great

Slave Lake

Hay Ian Pen name of the British novelist, he was educated at Fettes College and S John's College, Cambridge He became a John's College, Cambridge He became a schoolmaster and was for a time at better In 1907 he published Pip a novel This was a success and others followed including A Mans & Man, A Sofety Match and A Knight on W heels In 1914 he joined the Arryll and Sutherland Highlanders, and wrote The First Hundred Thousand one of the best books written on 186 in the training cames and at written on life in the training camps and at the front It was followed by others. After the

the front It was followed by others After the war Hay wrote other novels, but he made a greater success with his plays especially Tilly of Bloomsbury and The Sport of Kings With P & Wodehouse he wrote Ba Ba Black Sheep and The Damsel in Distress and with Stophen King Hall The Midshipmaid

Hay John American writer and politician Hay John American writer and politician he entered the office of Abraham Lincoln and became a lawyer In 1861 he was made private secretary to Lincoln After Lincoln's murder in 1855 he was in the diplomatic service until 1870 He was then occupied as a journa list and a civil servant In 1897 he was sent list and a civil servant. In 1897 he was sent to I ondon as ambassador, but in 1898 he returned to Washington to become Secretary

He was foreign policy of his country, his work including the treaty with Great Britain about the Panama It is in m from and the settlement of the boundary of Alaska He wrote with J G Nicolai a long biography of Haxey over 600 Pile County Ballads

Haydock Urban district of Lancashire.

Haydock It is 2271 m from London
by the LNE Rly and about 14 m from
Liverpool Hero is Haydock Park race course
There are from works and collieries Pop

(1931) 10,352

Haydn Franz Josef Austrian composer Haydn Franz Josef Austrian composer Austria, March 31, 1732, and when a boy became a chorister in S Stophen's Cathedral, Vienna Expelled for a prank in 1748, he studied music and supported himself until Motatasic introduced him to wealthy patrons. As chapel master to the Esterhazy family he became famous between 1762 and 1790 as a composer of quartets. symphonics, etc. ne became famous between 1762 and 1790 as a composer of quartets, symphonics, etc In 1791 and 1794 he visited England, in 1797 he composed The Emperor's Hymn, and in 1798 and 1801 The Creation and The Seasons He died in Vienna, March 27, 1809 104 symphonies and numberless other works testify to Haydn's genius

works testify to Haydn's genius

Haydon

Benjamin

Bobert.

English

Born at Plymouth,

Jan 26, 1786, he was educated at Plympton

and then studied art in London. His paintings

soon gained recognition, and he still has a

place as an historical painter Among them

are "Dentatus," "Christ's Entry into Joru
salem," "The Banishment of Aristidos,"

Wellington at Waterloo," "The Judgment

of Solomon," "Napaleon at St Helena"

and "The Raising of Lazarus" Often in

debt and other difficulties, he committed

suicide, June 22, 1846

Haydon's lectures on painting which were

Haydon's lectures on painting which were very popular, have been published He also wrote an Autobiography His Correspondence and Table Talk were also published

Hayes Urban district of Middlesex. It is grand Union Canal passes through it. Of late Hayes has become an industrial centre, and here are works for making printing machines, gramophones etc Pop (1931) 23,646

Hayes Village of Kent. It is 16 m from Hayes London, on the S Rly Hayes Common is a fine open space covering over

200 acres At Hayes Place the Earl of Chatham lived and died, and his son, William Pitt, was born In 1930 the house was pulled down.

Hay Fever Complaint affecting the mucous membrane of the eyes cars and throat It takes the form of a violent cold and it may be associated with asthma It is due to the irritation caused by inhaling the pollen or dust of plants and grasses in sensitive persons Timothy grass being one of the worst, and attacks persons liable to it mainly during the hay making season They should, therefore, avoid fields of hay Snegfing headache and a grassi of has Sneezing, headache and a general feeling of lassitude are symptoms of the com plaint which rarely attacks old people cure it an anti toxin has been prepared

Hayle Urban district and scaport of zance on the GW Rly It has a harbour and fishing is the chief industry Pop (1931) 916 of the and served under M Kinley and lishing is the chief industry Pop (1931) 916
Roosevelt until his death July 1, 1995
Hay was prominently associated with the flows into St Ives Bay

Hayling Island of Hampshire It is situated between the harbours of Langstone and Chichester and covers about 10 sq m, being about 4 m. long The island

10 sq m, being about 4 m. long The island is a popular seaside resort, and on it are golf links Havant is the nearest town Haymarket London thoroughfare It to Pall Mall, and is so-called because a hay market was held here until 1830 In it is the Haymarket Theatre, built in 1821 as a successor to one dating from 1720 Here was erected in 1705 the Queen's Opera House, which gave way to the King's Theatre, named Her Majestv's from 1837 to 1901, when it took its present name. His Majestv's

Her Majesty's from 1837 to 1901, when it took its present name, His Majesty's

Hayter Sir George English artist Born in London, Dec 17, 1792, he studied at the R.A schools there, and in Rome, later making a reputation by his portraits and miniatures. In 1841 he was appointed painter to Queen Victoria, and in 1842 was made a knight He died Jan 18, 1871

ister making a impainter to Queen Victoria, and in painter to Queen Victoria, and cort should be consult about of bicarbonate or doctor should also be remained treatment. It should also be treatment It should also be remained that a headache is often the first symptom of bicarbonate or doctor should be consult about or should also be remained to be a doctor should also be remain

Hazel Genus of shrubs or trees related Hazel Genus of shrubs or trees related The common Corplus arellana yields a useful clastic wood Cultivated varieties furnish cobs, filberts and Barcelona ants The tree is found in Europe and Asia, in England it may grow as high as 30 ft, but is usually much shorter A twig of the hazel is used by water diviners Hazel Grove It is 2 m from Stockport on the LMS Rly With Bramhall it forms an urban district, and is a centre of the

forms an urban district, and is a centre of the cotton industry Pop (1931) 13,300

Cotton industry Pop (1931) 13,300

Hazlitt William English writer. The son of a Unitarian minister, he was born at Maidstone, April 10, 1778 He studied to become a minister, but forsook this career for that of an artist He lived in Paris and painted portraits, but soon, having become friendly with Coleridge, turned to writing settling in London in 1812 There he worked for The Morning Chronicle and other papers, including The Edinburgh Review and The London Magazine He died in Frith Street, London, Sopt. 18, 1830

Hazlitt ranks as one of the great English

London, Sopt. 18, 1830

Hazlitt ranks as one of the great English essarists, and as a critic he is also in the first flight. Notable among his books are Characters of Shalespeare's Plays, Lectures on the English Poets, Dramalic Literature of the Ministry of Health For the same alm, there are several health societies works His essays are in his Table Talks and The Plain Speal ers

Hazlitt had a son, William Hazlitt (1811-93), a public official who found time for a good deal under the Ministry of Health For the same aim, there are several health societies. The dranking of healths, derived from ancient ceremonies of pouring libations to the goods and drinking to the departed at solemn feasts, survives in the social custom of drinking to the official who found time for a good deal under the Ministry of Health For the same aim, there are several health scrived from ancient ceremonies of pouring libations to the goods and drinking to the departed at solemn feasts, survives in the social custom of drinking to the official who found time for a good deal under the Ministry of Health For the same aim, there are several health scrived from ancient ceremonies of pouring libations to the goods and drinking to the departed at solemn feasts, survives in the social custom of drinking to the official who found time for a good deal under the Ministry of Health For the same aim, there are several health scrived from ancient ceremonies of pouring libations to the goods and drinking to the departed at solemn feasts, survives in the social custom of drinking to the departed at solemn feasts.

Health Insurance Scheme for insuring workers against sickness and disablement It was introduced in Great Britain in 1911 and since 1926 has been linked with a scheme

rations sabout seated than that of superficial scalp irritation. Either temporary or persistent, it may result from organic injury, c.g, haemorrhage from abnormal blood states, c.g., anaemia or from Bright's Disease or constipation of the superipheral irritation, from eye strain or alignment of the superipheral irritation, from eye strain or alignment of the brain and its mamed.

Aspirin tablets, two if necessary, will

Aspirin tablets, two if necessary, will generally relieve a headache (though some people are unable to tolerate them), and a rest in bed in a darkened room is also helpful Sometimes a cup of tea will be enough to relieve a headache caused by fatigue, and bathing the forehead and orelids with eau-de cologne

extent suppressed

Headlam Arthur Cayley English prelate. Born at Whorlton,
Durham, Aug 2, 1862, the son of a clergyman,
he was educated at Winchester and Oxford
He was ordained and for some years remained
in Oxford as a lecturer In 1896 he was made
rector of Welwyn, and in 1903 Principal of
King's College, London, where he remained
until 1918 when he was appointed Regius
Professor of Divinity at Oxford In 1923 he
was made Bishop of Gloucester, having been
for 20 years (1901-21) editor of The Church
Quarterly Review

Headson Urban district of Desharts

Heage Urban district of Derbyshire It is 3 m from Belper and is an industrial centre Pop (1931), 4054

Health Soundness of body, in general a condition of bodily efficiency, the opposite of disease Since about the middle of the 19th century great attention has been paid in Great Britain to all matters affecting the public health and the result is already apparent in increased longerity and other ways Medical men and women are appointed to look after the health of children Sanitation is a matter of national concern and in other ways the state does a good deal under the

of old age pensions Manual workers, with exceptions, and those non manual workers whose remuneration is less than £250 a year, must be insured, provided they are between the ages of 16 and 65. The payments are made weekly by affixing stamps to a card Each person is provided with an insurance card which should be carefully kept

The whole of the contribution is payable in The whole of the continuous is parameter the first instance by the employer, and must be paid by stamping a card at or before the time of payment of wages for the week for which the contribution is due. The employer is then entitled to recover, by deduction from the wages, the employee's share of the con tribution so paid The employee's share is ordinarily 9d in the case of men, and 6d in the case of women, but in certain cases of low wage carners the employee's share is less It is also less for those under 14 years of age. The employers share is 9d for men and 7d for women, and he must pay for employees over 65

The ordinary benefits to which insured per sons are entitled in return for contributions in respect of health insurance are-medical. sickness, disablement and maternity benefits

Medical benefit consists of the provision of medical attendance and treatment, including treatment and attendance for tuberculosis and the provision of proper and sufficient medicines and such medical and surgical appliances (and ohemical reagents) as are named in the regulations made by the Minister of Health
The ordinary rates of sickness benefit are

The ordinary rates of sickness benefit are 15s 0d a week for men and 12s 0d for women, but until a person has been insured for 104 weeks and 104 weekly contributions have been paid in respect of him, sickness benefit is payable at the reduced rates of \$5 0d for men and 7s 0d for women. The normal rate of disablement benefit is 7s 0d a word for your paid 5s 0d for your 14th these a week for men and 6s 0d for women All these rates are subject to reduction when the member is in arrears

Disablement benefit is a continuation of the periodical payments at a lower rate in respect of incapacity after the period of sickness benefit has been exhausted. The normal rate The normal rate

is 7s Od a week

Maternity benefit consists of the payment of a sum of 40s 0d on the confinement of the wife or, in the case of a posthumous child, of the widow of an insured man or of a woman whether married or unmarried who is herself insured Some women therefore, are entitled to a double maternity benefit

Most insured persons belong to an approved society as in this way they obtain the full advantages of the scheme. These societies are formed by trade unions and friendly societies and payments are made by them addition each insured person must have his or her name on the panel of a medical man who

receives a certain yearly sum for each patient.
In 1934 no fewer than 19 000 000 persons were insured under the scheme in Great Britain and Northern Ireland The approximate income of the fund vas £38,000 000 and about £32 000 000 was paid out in benefits

Germany has a somewhat similar system of social insurance. This was in existence before the British one which in some respects was modelled upon it. In 1930 France introduced a national insurance scheme of a somewhat similar character

care of the public health, duties which were taken over by the Home Office, then by the Local Government Board and finally by the Ministry of Health.

Health Ministry of Departme British Government. Department of the British Government. It was created in 1919 to supersede the Local Govern ment Board and also take over duties performed by other departments of state, such as national health insurance. It do is with all matters affecting local government including rating and the public health. Its head is the minister, who is a member of the Cabinet and is paid \$5000 a year. He is assisted by a parliamentary secretary and a large staff, on which are a number of medical men. The offices are Whitehall, London S.W.

The Ministry is only concerned directly ith England For Wales there is a Board with England of Health with headquarters at Cardiff

of Health with headquarters at Cardin Scotland has a department of health at 125 George St., Edinburgh, which is under the Secretary for Scotland

Healy Timothy Michael Irish politician, Bron in Bantry, May 17, 1855, he was educated by the Christian Brothers In 1871 he went to England and in London he worked as a clerk and then as a journalist. In 1880 he was elected MP for Wexford, in 1883 for Mongology, to 1885 for Mongology, to 1885 for Mongology. 1883 for Monaghan, in 1885 for Londonderry, South in 1887 for Longford, North, in 1892 for Louth, North, and in 1910 for Cork, North East a seat he retained until 1918 Healy threw himself keenly into political work and was soon one of the most prominent members of the Nationalist Party and one of the few real craters in the House of Commons Strongly attached to the Roman Catholic Faith, he was one of the small group who actively

was one of the small group who actively opposed Parnell in 1890, and in 1990, when the party was united again, he was expelled from it for his opposition to the United Irish League In 1922 Healy was selected as the first Governor General of the Irish Free State, a post he held for five years He died March 20, 1931 Both an Irish and English barrister, Healy worth Letters and Leaders of My Day Healy wrote Letters and Leaders of My Day

Heanor Market town and urban district rreal of Derbyshire. It is 141 m. from London by the LN L Rly, and 3 m. from Ilkeston Hostery is manufactured, and there are collieries Pop (1931) 22,386

Hearing One of the five senses. It is awakened by exciting the auditory nerves by sound vibrations conducted from outside by the pair of organs called the cars. Man perceives vibrations ranging from 30 to 50,000 a second. When irregular in the case of the care when the care with the care that the care with the care of the care o duration or intensity, they constitute noise, when regular and periodic they become

when regular and periodic musical Sec DEAFNESS Hearst William Randolph fournalist Born in American Born in California in 1863, his father was a rich mine owner and a senator In 1886 young Hearst took over The San Francisco Examiner, which he developed on the lines of the so-called yellow press everything sacrificed to sensation 1895 he obtained a paper in New York which he called *The New York American* and round these two he gathered others until he was tho owner of a powerful group, all showing the same features and all, at times, bitterly hostile to Britain He also secured weekly and monthly papers including several in London

Health Board of Department of the Heart Main organ of blood circulation in British Government that existed Heart man and many other animals. The from 1848 to 1858. It was concerned with the human heart is a hollow, muscular, somewhat

conical four-chambered force pump enclosed in a fibrous bag. It is situated in the chest between the lungs and weighs from 10 to 12 oz. in men and from 8 to 10 oz in women. The right and left auricles contract, pumping into their respective ventricles venous blood from the body and scrated blood from the lungs. the right and left ventricles contract, pumping venous blood into the lungs and agrated blood venous blood into the lungs and derated blood into the main blood vessels. These rhythmic contractions, or systole, and dilatations, or diastole, followed by an equivalent pause, constitute the pulse or heart beat, normally 60 to 90 times a minute The heart is regarded as the seat of the affections
DISEASES OF THE HEART T The beart is nonularly

The heart is subject to a number of diseases, one of the worst being angina pectoris, which is very painful Those affected are liable to sudden death, and should avoid extra exertion of any kind There is a hospital for diseases of the

heart in Marylebone, London

Heartburn Burning sensation referred to the region of the heart and in the throat, caused by too much acid in the stomach, a similar condition to that

known as acidity

Treatment — teaspoonful of bicarbonate of soda in water will give immediate relief, and essence of peppermint is also good. The cause of heartburn is often too much sugar and un suitable starch (such as new bread) Some people find that fresh fruit or strong tea sets up this condition, the diet should therefore be studied with a view to the elimination of unsuitable foods

Heartsease Popular and poetic name formerly shared by the wallflower with some species of violets, eswallflower with some species of violets, especially V tricolor and its subspecies V. luica An infusion of them was deemed to ease the love sick heart The word is now confined to the latter, whose mingling of purple, white and golden rellow in the same flower distinguishes it from one-coloured violets and two-coloured pansy violets From the three-coloured cornfield weed, which is widely distributed in Britain, Europe, Asia and N Africa, have been produced many garden varieties, habitually called pansics

Heat Form of energy Formerly heat was regarded as a subtle substance which flowed in from an outside source, but it is now known to be a form of energy which is produced known to be a form of energy which is produced from other forms of energy by means of friction or chemical action, as in the case of combustion Temperature may be regarded as heat potential and determines the transference of heat, it may be compared with level in relation to liquids, pressure in pneumatics and voltage in electricity

The heat capacity of substances varies, and the amount of heat regulared to raise the

the amount of heat required to raise the temperature of a unit mass of a substance through one degree is known as specific heat A rise in temperature of a substance causes expansion, and a further rise to a height varying with the substance causes a change of state from solid to liquid or liquid to gas The amount of heat needed for such a change

of state is known as latent heat

Heath Rigid, overgreen shrub (crica) It is native to Europe, N Asia and Africa. British species include the fine-leaved E cincrea, the cross leaved E tetralix and others characteristic of SW Europe Greenhouse favourites comprise the brier root, E. arborea, and many from South Africa,

besides some Australian heaths They belong mainly to the order crica, but partly to epacris

A stretch of open, uncultivated land is called a heath, especially in the south of Eng-

land

Heathcoat John English inventor Born at Duffield, Derbyshire, Aug. 7, 1783, he finished his apprenticeship to a blacksmith and went to Nottingham After a short spell in business in that town he began to manufacture lace in Loughborough, and there in 1808 he invented a machine for making lace, hitherto made by hand In 1816 his factory was destroyed by the Luddites, so he transferred his business to Tiverton From 1832 to 1859 Heathcoat was MP for Tiverton He died Jan 18, 1861 His descendants, the family of Heathcoat-Amory, still carry on the business he founded

Heather Shrub of the heath order A native of Europe, Siberia and Greenland, it is also called ling Unlike true heath (erica) its coloured calyces are longer than the corollas There is a great deal of it in Scotland and Ireland, where it is used for besoms, thatchwork and as outdoor bedding The flowers are usually purple, but there is a variety that is white

Heathfield Village of Sussex. It is on Tunbridge Wells and 45 from London, on the S. Rly Near is Cade Street, where, in 1450, Jack Cade was killed Pop 3150

Heathfield Baron British soldier George Augustus Ellott was born at Stobs, Dec 25, 1717, being a member of the famous border family of that name He became a soldier and served with the Prussian Army in 1735-36 and then with the British at Dettingen and Fontency In the Seven Years' War he obtained notice and promotion, but it was not until later that he became a national hero. In 1775 he commanded the troops at Gibraltar and was responsible for defending the fortress against French and Spanish attacks for four years (1779 83) In 1787 he was made a baron and he died July 1790

Heaton Norris District of Lancathe Mersey, adjoining Stockport, on the L.M S Rly The chief industry is cotton manufacture Near are the districts of Heaton Mersey, Heaton Chapel and Heaton Moor, in the

Stockport area
Heaton Park, Manchester, was at one time
the seat of the Earl of Wilton In 1902 it was bought by the city the park is now a pleasure

ground and the house a museum
Another Heaton is a district of Newcastle-

on-Tyno Heaven Name for the visible vault or firmament enveloping the earth in which the celestial bodies appear Blended with this is the conception of heaven as God's dwelling place, and the place or state of exist-ence of the blessed after earthly life ends The doctrine of a heavenly reward for carthly righteousness was found among the Jews and developed in Christian thought Mohammedans associate heaven with a future of sensual delights. The Christian view is spiritual, not material, heaven being sometimes emphasised as a timeless state which may even accompany present experience

Heaviside Oliver English scientist. Born May 13, 1850, he was

at first employed in telegraphy and subsequently devoted himself to electrical investiga tion, publishing in 1892 his Electrical Papers His work had an important bearing on long distance telephony He died Feb 3, 1925

The Heaviside layer is a conducting layer in the upper atmosphere suggested by him to explain various electro magnetic phenomena including the reflection of wireless waves (especially short waves) towards the earth, giving unexpected reception strength at long distances

Hebburn Urban district of Durham It is near Jarrow, and stands on the Tyne, being 267 m from London, by the LNE Rly Here are engineering worls Here are engineering worls yards, and other industrics shipbuilding connected with shipping Pop (1931) 24,125

Hebden Bridge Market town and urban district of Yorkshire (WR) It stands on the rivers Hebden and Calder, 7 m from Halifax, on the L VS Illy Cotton goods and other textiles are made here Near is Hardenstle Crags, a pleasure resort Pop (1931) 6312

Hebdomadal Council Body that governs the University of Oxford It consists of the chancellor, vice-chancellor, proctors and 18 members elected by congregation

Hebe In Greek mythology, the goddess of youth identical with Dia and She was the daughter of Zeus and Hera and the cup bearer of the gods She also attended to Hera's charlet and peaceeks and, when Hercules was delfled, became his bride

Heber Reginald English prelate The Malpas, Cheshire April 21, 1783 He went to Brasenose College Oxford and was ordained For a time he was in Oxford as Fellow of Ali Souls College but on his marriage he became Vicar of Hodnet in Shropshire In 1823 he was chosen Bishop of Calcutta and he was there until his death, April 3, 1826 Heber is best known for his hymns He was successful in writing prize poems at Oxford He wrote among other hymns, From Greenland's Icy Mountains and Holy, Holy, Holy, Lord God 11mighty

Hebrew Name used for the Jewish race, especially to describe its lan guage literature and religion The Hebrew language is Semitte in it the Old Testament was written It developed into rabbinic or new Hebrew and then into modern Hebrew The writing is from right to left

Hebrews Epistle to the Book of the Although the English Bible attributes it to S Paul, it bears in the oldest manuscript the anonymous super scription to the Hebrews and even that was a deduction by early copyists. Its vocabulary and formal rhetorical style distinguish it from letters admittedly Pauline neither ancient authority nor modern echolarship accepts his authorship without question Addressed to Jewish Christians perhaps in Rome it has been at various times conjecturally attributed to Barnabas Priscilla Luke and others

Hebrides Groups of Islands off number about 500 but only about 100 are inhabited and they are parts of the counties of 1 084 and Cromarty Argyll and Inverness They are divided into two groups, Outer and Inner The Minch and Little Minch being a

channel between them The Inner Hebrides include Skye, Islay, Jura, Mull, Colonsay Rum, Tiree, as well as Staffa and Iona. The Outer Hebrides include Lewis Harris, Taransay and Benbecula, the two Uists, North and South, Barra the Flannan Islands, etc St Kilda, now uninhabited, is the most westerly of all The soil is poor and only oats, barley and potatoes are grown Sheep rearing and tishing are the main occupations. The total area is about 2850 sq m. Pop 75 000

The Islands were ruled by the kings of Norway until 1266, when they were ceded to Scotland For two centuries they were the domeins of the Lords of the Isles, a branch of the Macdonalds Many of the islanders speak Gaelic and are Roman Catholics The islands

have a literature of their own

Hebron Town of Palestine Situated 20 m south of Jorusalem 3000 ft above the Mediterranean, it is one of Palestine's oldest settlements First called Kirjath arba (Gen xxili) it was the home of Mediterranean and Mediterranean statements. Abraham, Isaac and Jacob Mohammedans reverence it equally with Mecca and Medina Captured by Saladin in 1187, the Turkish occupation ceased when the British entered it in 1917 Its walled enclosure of Herodian date shelters, according to tradition, the Cave of Machpelah and the patriarchal remains Pop (1931) 17,532

Hecate in Greek mythology, the goddess of night, animal fertility, witch craft and the underworld Sometimes dis charging the functions of Artemis, she appeared at first single formed, but afterwards triple formed, symbolising the moon's three phases She was represented on pillars at cross roads, especially at Athens Black owe lambs and especially at Athens Black of puppies were sacrificed to her

Hecatomb In Greece, the sacrifice of 100 oxen or 100 other beasts of one kind Particularly observed by Lace-daemonians on possessing a hundred cities Larly poets use the word more generally for a great but indefinite public sacrifice, e.g., one of 23 goats and lambs, and even of great destruction by physical visitation

Heckmondwike Market town and urban district of Yorkshire (WR) It is 8 m from Bradford and is served by the LMS and LNL Riys Its industries are the manufacture of carpets, machinery and textiles Pop (1931) 8991

Hecla Volcano of Iceland, in the south of the island, about 70 m from Roykjavik It is 5100 ft high and has a crater over a mile round The volcano is frequently in eruption and there are records of its activity as far back as the 11th century

Measure of land in the metric Hectare system It is equal to 2 471 acres The word means 100 ares, an are being 100 metres

Hectograph Apparatus for making numerous copies of a document It consists of a shallow tray filled with a gly cerine-gelatine mixture or a preparation of clay The original written or typed in special ink is placed face downwards on the gelatine which absorbs the ink and from this impression copies may be made impression copies may be made

Hector In Greek legend the eldest son of the Trojan king Priam by Recuba He was Troy's outstanding champion during the war with the Greeks After Hector slew Patroclus, Achilles emerged from retirement,

chased him thrice round the walls of Troy, slew chased him thrice round the walls of 1707, slew him and dragged his body at his charlot wheels to the Greek camp Entreated by the aged Priam, Achilles gave up the body for burial Hector's wife was Andromache, and the des-cription of their affection, with their little son, Astyanax, given by Homer in the Iliad is one of the finest passages in Greek or any literature. literature

Hecuba In Greek legend, wife of Priam, King of Troy, and mother of Hector, Paris, Cassandra and other children It was her tragic lot, after losing her husband and favourite sons, to be made captive by the Greeks. In one start williad her Emiliades. Greeks In one story, utilised by Euripides in his tragedy, *Hecuba*, she wreaked vengeance on the children of Polymestor after he had murdered her son, Polydorus, in the Thracian Chersonese (Gallipoli), but was turned into a dog and threw herself into the sea

Hedgehog Genus of insect-eating mamnatives of Europe and parts of Asia and Africa All are able to roll themselves into balls by muscular layers beneath the skin, and also to erect a protective armour of short, prickly spines The common urchin, E europaeus, with short, naked tail, is a nocturnal feeder, hibernating in winter Besides insects it consumes snakes, birds' eggs and small mammals. In the graden it is urchiffer destroying herm. In the garden it is useful for destroying harmful insects

Hedgeley Moor District in North-umberland It is 8 m from Alnwick and is famed for the battle fought there during the Wars of the Roses On April 25, 1464 a Lancastrian force was beaten by the Yorkists and one of their leaders, Sir Ralph Percy, was killed

Hedge Mustard Large genus of herbs of the cruciferous order (sisymbrium) They are natives of temperate and cold regions
The common S officinale has leaves variously incised and sprays of small, yellow flowers Jack-by-the-hedge, S alliaria, has larger white flowers, and a garlic-like odour The hedge mustard was formerly used in medicine

Hedin Sven Anders Swedish traveller Born at Stockholm, Feb 19, 1865, the son of an architect, he went to several universities in his own land and in Germany In 1885 he made his first considerable journey through Persia and Mesopotamia, and for the next 30 years he was almost constantly in the more unknown parts of the globe His chief field was central Asia During the Great War, Hedin showed marked German sympathics and returned the British knighthood conferred upon him in 1909 He has written many books which have been translated into English These include Through Asia, 1898, Adventures in Tibet, 1904. Overland to India, 1910, From Pole to Pole, 1911, The War Against Russia, 1915, Southern Tibet, 9 vols, 1917-22, Mount Everest, 1922, My Life as an Explorer, 1926 The Gobi Desert, 1929 and Lop-nor, the Wanderina Late, 1931 the Wandering Lale, 1931

Hedingham Name of two villages in Essey, Castle Hedingham

and Sible Hedingham Castle Hedingham is famed for its castle, the seat of the great family of Do Vore The Leep remains. Pop 900 Sible Hedingham, 60 m from London, has also a fine old church It dates from the 14th century and has associations with the family of Hawkwood Pop 1750

Hednesford Market town of Stafford-shire It is 120 m from London by the L MS Rly, and is 10 m from Walsall There are tile works and collieries

Borough of Yorkshire (ER) It Hedon Borough of Yorkshire (E.R.) in stands near the Humber, 5 m from Hull, and is served by the L.N.E. Riv At one time Hedon was a flourishing port is still a chartered town Pop (1931) 1509

Hedonism Ethical view of life which regards pleasure, bodlly or mental, as the highest good It developed into the philosophies of Aristippus and Lpicurus Influenced by Christian altruism, modern bedonistic doctrines, represented by Bentham, will and others emphasise the claims of the Mill and others, emphasise the claims of the community, and aim at the greatest happines. of the greatest number

Heem Family of Dutch painters David painted pictures of still life One is in the National Gallery, London. He died in 1632 His son, Jan David van Heem, was a much greater artist. He is represented in the Wallace Collection, London, and in other famous galleries He died in 1683, leaving a son, Cornelis van Heem (1631-95) also a painter

Heere Lucas de Flemish painter Born at Ghent in 1534, from 1568 to 1577 he was in England, when he painted portraits of Queen Elizabeth, the Earl of Essex, and others A currous and allegorical ploture by him is at Hampton Court. He also painted in Paris, where he died in 1584.

Hegel George William Frederick German philosopher Born at Stuttgart Aug 27, 1770, he was educated at Tübingen and began life as a teacher In 1800 he settled at Jena, where he became a professor, but left that city in 1806 and edited a newspaper at Bamberg In 1808 he became head of a school namberg 11 1808 he became head of a school at Nuremberg, and in 1816, his reputation as a philosopher being now made, he was chosen Professor of Philosophy at Heidelberg In 1818 he went to Berlin as professor at the university there and he died Nov 14, 1831

Hegel's philosophy is contained in his books, some of which have been translated into

some of which have been translated into English He was one of the foremost exponents of idealism He taught that the world of objects is not only related to an intelligence, but can be nothing more than the manifestation or revelation of that intelligence The material world could not exist of itself Matter is but the necessary counterpart of spirit and in it spirit reveals and realises itself God himself is just the self-development of the absolute The universal principle is the idea, being and the idea are identical This philosophy was very influential in England and the philosophers who adopted it are sometimes travers as the English Herelians. known as the English Hegelians

Heidelberg Town of Baden, Germany It stands on the Neckar, 54 m from Frankfort, and is a railway junction. For some centuries before 1721 it was the capital of the Rhenish Palatinate On a hill above the town and the river is the castle, the sections of which are named after the princes who built them The chapel is noteworthy and who built them The chapet is noteworthy and in the cellars is the great tun of Heidelberg, a vat capable of holding 17,000 gallons Two bridges cross the river Pop (1925) 73,034

The University of Heidelberg was founded in 1385 and in the 17th century was a famous Protestant centre It has a fine range of buildings, including a fine library and an

observatory One block, the gift of some Americans, was opened in 1931 There are some industries and Heidelberg, owing to its

some moustries and Heidelberg, owing to its educational and other advantages, attracts residents Pop (1933) 84,641

The Heidelberg Catechism is a statement of the Protestant faith, drawn up in 1563

It was accepted at the time by both Lutherans

and Calvinists

The Heidelberg Jaw is a jawbone of an early type of man found near Heidelberg in 1907

Heine Heinrich German poet. Born at Düsseldorf, Dec 13, 1797, he went into business at Hamburg, but afterwards left it to study at several universities in 1825 he took a degree at Göttingen and for the next six years he lived a desultory life, writing, travelling and giving vent to advanced and unpopular opinions in 1831 he settled in Paris which was his home for the rest of his life. There he became a leader of the democratic maxement and the centra of an the democratic movement and the centre of an admiring band of literary enthusiasts After eight years as a complete invalid he died, Fob 17 1856 Hoine was, by birth, a Jew, but in 1825 he became a Christian

Heine's fame rests chiefly upon his lyrics, songs of unsurpassed beauty, but he also wrote a great deal of prose. His books on his journeys in the Herz Mountains and by the North Seuvere followed by volumes on Corsica and Italy His Book of Sonys (Lieder) appeared in 1827, five years after the appearance of his first poems. He wrote on art and literature, especially French and some short stories. His last works were further volumes of poems, including Atta Troll and the volume called New Poems

Heinsius Name of two famous Dutch The soholar, Daniel Heinsius, was born in Ghent June 9, 1580 and studied under the younger Scaliger He was Professor of Greek and Latin at Leydon for many years and was regarded as one of the greatest scholars of the age He edited some of the Latin classics and wrote poems He died in 1655 His son Nicholas (1620 81), was also a famous classical scholar also a famous classical scholar

Antonius Heinsius was a Dutch statesman Born Nov 22, 1641, he entered the public service and became a trusted servant of William of Orange When William became King of England Heinsius became Grand Pensionary of Holland He was responsible for the conduct of foreign affairs in which he continued Williams policy of hostility to France Ho remained at the head of affairs in Holland after William's death and died Aug 3 1720

Heir One who inherits anything Heirs are usually created by will but in English law the heir is one who succeeds to an estate not by will but by a settlement Before the changes in English law made in 192. the heir was one who succeeded to real estate by

intestacy or entail

The heir to a title is usually the eldest son The heir to a title is usually the eldest son of the holder, but, if such does not exist it may be a daughter or a nephew, according to the patent creating the title or the custom, if it is a very old one. An heir is called an heir apparant an heir presumptive is the heir provided a nearer heir is not born. An heirloom is a piece of plate jewellery, or furniture or something cise that descends with an extract to the heir.

and Yembo It covers about 150,000 sq m Pop 1 500,000

Until 1914 Hejaz was part of the Turkish Empire In 1916 Hussein, Grand Sherif of Mecca, was recognised as king and in return fought for Great Britain against Turkey In 1919 he became involved in a struggle with his 1919 he became involved in a struggle with his hereditary enemy, Ibn Sa'ud, the Chief of the Wahhabis Defeated by the latter, Hussein abdicated in 1924 His son, Ali, did the same in 1925, as Ibn Sa'ud had by then captured Mecca In 1927 Great Britain recognised Ibn Sa'ud as King of the united kingdom of Hojaz and Nejd (now known as the kingdom of Sandi Arabia) The Hejaz Railway runs from Medina to Ammon See Nejd

Hejira Arabic word meaning flight. It is used for the flight of Mahomet from Mecca to Medina, which took place in 622 From it the Mohammedans date their era and their year, which begins on July 16

Hel Goddess of Norse mythology The daughter of Loki and Angurbods, she dwelt below the roots of Yggdrasii ruled nine worlds and received all the deal Later myths assigned to her only those who died of ago or sickness, and gave her the attributes of dark

ness, hunger, starvation and misery

Helen Greek heroine, famous for her the daughter of Leda, her father being either Zeus or Tyndareus Castor and Pollux were her brothers She became the wife of Menelaus, ner orothers She became the wife of Menclaus, King of Sparta, where she was visited by Paris The pair fell in love with each other and Helen was carried off to Troy, the result being the Trojan War When it was ended Helen returned to Sparta with Menclaus, where Homer refers to them as living together in partest units. perfect unity

Helena Saint and Roman empress Flavia Nicomedia and became the wife of the Emperor Constantius Chlorus Her son was Constantine the Great Helena was a Christian and in her old age made a pilgrimage to Jerusalem A legend says that whilst there, she discovered the Holy Sepulchre and the wood of the true cross Churches are dedicated to her

Helensburgh Burgh and watering shire It stands on the Firth of Clyde at the mouth of the Gareloch, 24 m from Glasgow and 4 from Greenock on the L N E Rly There is a harbour and from the L N E Rly There ls a harbour and from here steamers go to places on the west coast of Scotland Pop (1931) 8893

Helenus in Greek legend one of the sons of Priam, King of Troy He was a soothsayer and was taken prisener by the Greeks during the slege of Troy When it was over he went to Epirus with Pyrrhus whom he succeeded as Ling

Helicon Mountain range in Bocotla, Greece Situated between the Corinthian Gulf and Lake Copals, now drained, its beauty made it the ancient home of the Muses which had on it a temple and sacred grove Culminating in Palalovouni 5740 the high and Zagora, 5010ft high spurs overlooking the valley of the Muses contain the fountains, Aganippe and Hippocrene

with an estate to the heir

Hejaz District of Arabia sometimes spelt
with Neld forms a kindom In it are Mesca
the capital and Medina and the ports of Jedda

\*\*Although many attempts have been

made with various forms of helicopter, none | have proved a complete success as no air screw yet designed will give a forward movement or maintain a balance in variations of the wind

maintain a balance in variations of the wind In the nearly related autogire a forward movement is needed to raise the craft.

Heligoland Island of the North Sea. It is 45 m from the mouth of the libe, belongs to Prussia, and is about 130 acres in extent. At one time it is said to have been quite a large island, covering some hundreds of savara wiles. The name means hundreds of square miles. The name means

Holy Island

In 1807 the island was taken by Great Britain from Denmark In 1890 it was ceded to Germany and was soon strongly fortified The inhabitants were removed and works of enormous strength constructed, making it a base for both warships and aircraft. After the Great War the fortifications were all dismantled and the island became again a pleasure resort. noted for its sea bathing

HELIGOLAND BIGHT The waters between the island and the German coast form the Bight of Heligoland On Aug 28, 1914, this was entered by a British force of light cruisers and destroyers These attacked the German ships and there was some hard fighting without ships and there was some nard nguting without decisive results Later in the day five British battle cruisers under Sir D Beatty arrived in the bight and, with their aid, three German cruisers were sunk and the rest driven into port. The British lost 31 killed and one ship, the Archusa, badly damaged The Germans the Archusa, badly damaged The had 712 killed and 37 taken prisoner

Heliograph Instrument used for send-ing messages over long distances by reflecting the sun's rays or artificial light from a moveble mirror. In this method of signalling long and short flashes in the Morse code are used It was employed in the South African War in 1899

Heliometer Instrument invented in the 18th century for the accurate measurement of heavenly bodies It was later improved by Fraunhofer and Dolland The object lens of the heliometer is in two separate halves, each forming a perfect image in the focus of the eyeplete the images con-yerging or diverging as the half-lenses are moved together or apart

Heliopolis Ancient city of Egypt. It was the Biblical On (Gen Cairo It was devoted to the worship of the falcon-headed sun god Ra. Its learned priestly schools attracted Plato and other philosophers A XII Dynasty obelisk, 66 ft. high, ereuted by Senusret I still stands

Heliostat Astronomical instrument by means of which a beam of light is reflected by a mirror in a fixed direction In the heliostat, a mirror is mounted upon an axis which is placed parallel to the earth's axis, and a clockwork mechanism causes the mirror to rotate following the sun, thus reflecting the sun's rays in an invariable

Heliotherapy Treatment by sunlight.
An ancient practice adopted by Finsen (1861-1904) who, however, used artificial light for treating lupus with beneficial results Recognition of the value of sunlight is now general and sun-bathing is common Exposure should be gradual and the head should be protected. The effect is that of a general tonic valuable in children in cases of rickets, and to convalescents from debilitating

Heliotrope Large genus of herbs and shrubs of the borage order, (Heliotropium) Mostly natives of the warmer regions, they bear alternate leaves, and clusters of small, white or lilac salver shaped flowers One species is a common European weed

In Great Britain the heliotrope is an at-active garden plant. This plant is also tractive garden plant This plant is also known as cherry pie and was introduced into Europe in the 18th century

Helipterum Everlasting flower includ-ing the rhodanthes and the aerodiniums They grow in a light, rich soil and a warm, sheltered position

Helium colouriess argon in its inert Colourless gaseous element obaracter It is not inflammable and next to hydrogen is the lightest gas known con-sequently helium is used for inflating the envelopes of airships. To a small extent it is soluble in water—hence its presence in thermal springs It occurs also as natural gas in Texas, and in many radio active minerals, especially those containing thorium and especially uranium The radiations known as alpha-rays are electrically-charged helium atoms

Helix Widely distributed genus of air-breathing, belly-footed molluses of the land snail family. They can withdraw Widely distributed genus of airentirely into their spiral shells which have no horny lids Among 25 British species are the common garden snail H horiensus, and the edible snail, H pomatia Exotic forms are edible snail, H pomatia often strikingly variegate variegated One in Sicily bores into rocks

Hell Place or state of retribution the limpenitent sinners after death or the last judgment. The authorised version of the last judgment the word for last Judgment. The authorised version of the English Bible frequently uses the word for the Hebrew Sheol and the Greek. Hades, denoting the abode of the departed as well as for Gehenna and Tartarus. The doctrine of hell as a place of torment long figured in Christian theology, but has now been abandoned by most Christian people. It was based upon one or two passages in the New Testament, notably in the Parable of Dives and Lazarus and of the wise and foolish virgins

Hellas Name used for Greece It in-cluded all the districts occupied by Greeks, the Greek world of that day addition to Greece proper there were Greek cities in Asia Minor, Sicily and other parts of the Mediterranean coast It was called Hellas because all were supposed to be descended from Hellan, the son of Deucalion

Hellebore Genus of perennial herbs of the huttercup order possessing cathartic properties. They are natives of Europe and N and W Asia. The large, coloured sepals simulate petals, the true petals becoming honeyed tubes The stinking hellebore, H fordidus and the bear's foot (H viridis) grow wild in Britain The Mediterranean black hellebore (H niner) is the Christmas rose of English gardens

Hellenism Term used for the culture of ancient Greece It alms at reproducing in modern life the artistic and literary ideals of the best age of Greece, ideals which in the opinion of many, represent the highest achievements of the human mind. In London there is a Society for the Promotion of Hellenic Studies It was founded in 1879 and issues The Journal of Hellenic Studies The address is 50 Bedford Square, London, WC1

rickets, and to convalescents from debilitating | Helles (2v) It is on the southern ex-

Hellespont Old name for the Dar danelles (q r) The story goes that Helle, sleeing from her stepsather, ino, fell into the sea and was drowned

name was then given to it

Helm In a ship the wheel or tiller by riciiii which a vessel's course is directed Orders about direction, called helm orders, are issued by those responsible for shipping, but a certain amount of in convenience is caused by these being different in different countries The matter was dis oussed at international conferences in 1912 14 and 1929, but no decision was reached In 1931, however it was announced that Great Britain was willing to co-operate with other countries in establishing a uniform international system of helm orders

Hermann Ludwig Helmholtz Hermann Ludwig scientist Born at Potsdam, Aug 31 German he became a doctor and as such served in the he became a doctor and as such served in the Prussian Army In 1849 he was made Professor of Physiology at Königsberg in 1855 he moved to Bonn and in 1858 to Heldelberg In 1871 he was appointed Professor of Physics at Berlin and in 1887 became Director of the Physico Technical Institute at Charlottenburg Ho died there, bept 8, 1894

Ilclmholtz ranks as one of the great selection of the left control.

llelmholtz ranks as one of the great scientists of the 19th century. He was res ponsible for the invention of the ophthalmos cope He wrote valuable books on optics and acoustics and his researches into the problem of sight were of the highest im portance He was also an authority on the portunce He was also an alternary on the nervous essetcm. As a physicist he developed the idea of the conservation of energy, and was a pioneer in examining some of the prob

lems connected with electricity

Helmsley Market town of Yorkshire It is 32 m from York, on the LNF Rly Near is a ruined castle and also Duncombe Park once the seat of the larl of Leversham whose clidest son is called viscount Helmslev It is now a school for girls Pop 1400

Héloise Prench abbess the is known for to whom she wrote the now famous love letters,

Sec ABFLAPD

Helot Class of bondmen in Sparta They were a Greek people who were enslaved by the Spartans Thoy worked on the landed estates paying a fixed portion of the produce but remaining state property Some times they were employed as light armed infantry or as rowers in the fleet. Their cruel treatment occasioned a revolt in 461 BC. The system disappeared in the 3rd century BC

Helsingfors Capital and scaport of Finland also called Helsing I stands on the Gulf of Finland, 250 m from I eningrad The harbour is a good one fittel with doels and wharves and there is a considerable shipping trade In the harbour is a free port Other industries include sugar refining and tobacco preparing Pop (1931) 241 115 211 113

tremity of the peninsula and guards the arc some small industries, but the mines near entrance to the Dardanelles Here, in April, arc less prosperous than formerly An old 1915, British troops landed, in spite of fierce place Heiston is noted for its annual festival opposition danced in the streets Pop (1931) 2544

Helvellyn Mountain of England The second highest in the country, being 3118 ft high, it is on the border of Cumberland and Westmorland and overlooks Ullswater The ascent, which is not difficult, is best made from Patterdale

Helvetin Name of a Toutonic tribe They lived in the district now called Switzerland and around Avranches In 58 B C Switzerland and around Avranones in 58 B C thoy invaded Gaul, but were defeated by Julius Caesar The republic set up in Switzer land by the French in 1798 was called the Heivetic Republic Its capital was Lucerne, but it only lasted until 1803

Felicia Dorothea English Hemans 76 Pilans poetes She was born Sept 25, 1793 Some of her poems were extremely popular, for, although never great poetry they were written with feeling and a sense of they were written with reening and a substantial with subjects which everyone could understand The beller Land was, perhaps, the best known Mrs Hemans was, perhaps, the best known died in Dublin, May 16, 1835

Hemel Hempstead Borough and market town of Hertfordshire It stands on the little River Gade, 32 m from London, on the LMS Riv The industries include paper making browing and tanning The name is due to bruwing and tanning The name is due to the fact that hemp was once grown in the neighbourhood Pop (1931) 15,122

Hemisphere Term literally meaning a half sphere, but applied in geography to the two equal divisions of the earth's surface. These are separated by the equator and known as the northern and surface. southern hemispheres In the northern hemisphere there is a greater distribution of land surface than in the southern southern hemispheres

Hemlock Biennial umbelliferous herb It is native in Lurope, Asia, and N Africa, and is common in Britain Its stout, shining, furrowed, purple spotted stem bears triangular much divided leaves, and small white flowers in compound umbels. It small white flowers in compound umbels It is poisonous, and in Greece a decoction of it was given to those sentenced to death, rg, to Socrates To day the alkaloid prepared from

Also a name given in North America to coniferous trees of the pine family

Hemp Name given to the fibre of a herb return of the nettle order (cannabia rativa). The plant is cultivated for this fibre, which is used for making rope belting and the like. It grows in a cool, moist climate, and the stems when ripe, are pulled and subjected to much the same treatment as flar The best is grown in Ital), and a little in Ingland and Ireland It also produces a resinous secretion. which is made into the drugs I nown as blank, and hashish, both being narcotles and hypnotics. It is also used in medicine. The oily seeds are used for bird food and cattle cake

The name is also used for fibres of other plants cy Manilla hemp and sisal hemp, while other trees yield Indian hemp and African hemp all being used for similar purposes

Helston Borough and market town of Cornwall It stands on the hemp agrimony and the hemp nettle Agri Cober 11 m from Falmouth and 303 from mony grows to a height of 4 ft and bears London and is reached by the GW Rly There clusters of purple flowers It belongs to the

Hemsworth Urban district of York-shire (WR) It is 8 m from Wakefield and 168 from London, by the L NE Rly It is a coal mining centre Pop (1931) 13,001

Henbane Herb of the nightshade order hyposcyamus niger) It is a native in warm and temperate Europe, Asia and Africa, and is poisonous to domestic fowls It is foctid and viscid, with a stout stem, large leaves and funnel shaped purple-veined yellow Besides this annual form a biennial one grows in the second season Both leaves and seed yield alkaloid poisons, hyosoyamine and hyoscine, used as sedatives and anodynes, large doses cause paralysis The plant grows wild in England and Ireland.

Henderson Arthur British politician Born in Glasgow, Sept 15, 1863, he was apprenticed to an engineering firm in Newcastle-on-Tyne and soon became a leading trade unionist and a member of the city council and in 1895 was suggested as a candidate for parliament. Soon he moved to Darlington where he was equally active, being mayor in 1903 From 1903 till 1918 he was M P for the Barnard Castle Division In 1919 he was elected for Widnes, in 1923 for Newcastle East, and in 1924 for Burnley, where he was deteated in 1931

defeated in 1931

Henderson began his career as a minister when in 1915 he was made President of the Board of Education in the coalition ministry In Dec 1916, he became minister without definite office, but in Aug 1917, after a visit to Russia, he resigned In 1924 he was Home Secretary in the first Labour Ministry and in 1929 he became Foreign Minister, a post he filled with considerable success He was Chairman of the Parliamentary Labour Party, 1908-10 and 1914-17 and its chief whip 1921-24 and 1925-27 In the second MacDonald ministry (1929 31) he was Secretary of State for Foreign Affairs, but in 1931 he resigned with the ministry and was defeated in the General Election In 1932, 1933 and 1934 he presided at the disarmament conference at Henderson began his career as a minister recteral Election In 1932, 1933 and 1934 he presided at the disarmament conference at Geneva He was awarded the Waterler prize in 1933 and the Nobel prize in 1934 for his services to peace He died in Oct 1935 A biography by E Jenkins was published in 1933 In 1923-24 two of his sons sat in parliament Arthur for Cardiff South, and William Watson for Infield They were re-elected in 1929 but levet their seate in 1929. They were reelected in 1929, but lost their seats in 1931

Hendon Urban district of Middlesex. It city and is served by the LMS., LNE and Tube Rallways Hendon has become a great Honor rankways mendon has become a great flying centre. Here is a large air park, as well as aircraft works, and in June an annual air pageant is held Pop (1931) 115,682

Hendon is also the centre of a rural district and in 1929 the council of this bought Head-

stone Manor House, once a residence of the archbishops of Canterbury, for public purposes Hengist Anglo-Saxon leader known about All that that in A p 449, with his brother, Horsa, he landed at the head of some Angles at Ebbsfleet in Kent. He defeated the Britons and settled in Kent, where he reigned over a small kingdom until his death in 488 He is said to have been invited by the British king Vortigern, and is regarded as the founder of the Anglo-Saxon rule in England

order composite. The nettle bears white or ivory flowers It belongs to the order labratae.

Hemsworth Urban district of Yorkshire (WR) It is 8 m of Hampshire It is about 2 m to the south of Christchurch and from it magnificent views are obtained In 1930 it became, the property of

the Borough of Bournemouth

Hengoed District of Glamorganshire

It is 31 m from Neath and

160 from London, on the G.W. Rly It is a

populous coal mining district

Henley William Ernest. English writer. Born at Gloucester, Aug 23, 1849, he was educated at the grammar school there After being in a hospital in Edinburgh, where he was treated for tuberculosis, he settled in London, where he soon made a position for himself As editor of The National Observer he gathered round him a band of young writers, to whom he imparted something of his own virile personality and maintained, until virile personality and maintained, unti-broken, a close friendship with R L Stevenson the two wrote four plays together Henley's literary work was chiefly essays and criticisms in The National Observer and other papers and volumes of verse, A Bool of Verses, The Song of the Sword and For England's Sake. He died at Woking, July 11, 1903

Henley-on-Thames Borough and market town of Oxfordshire It stands on the north side of the Thames, 36 m from London, on the GW Rly Henley is chiefly known for its boating facilities and the annual Henley Royal Regatta (q v) The headquarters of the Leander Club and the Phyllis Court Club are here Brewing is an industry Pop (1931) **6618** 

Henley-in Arden is a little town in Warwickshire It is 100 m from London and 17 from Birmingham, on the GW Rly
Henley Regatta Principal rowing ovent in England
It is held every July and attracts the best oarsmen from all over the world The first meeting was held in 1839 The chief races are the Grand Challenge Cup, the Ladies' Challenge Plate and the Thames Challenge Cup for crews of each term are for crews of eight. For crews of four there are the Stewards' and the Visitors' Challenge Cups The Silver Goblets are for the best pair of carsmen and the Diamond Sculls for single The Amateur Rowing Association scullers

Henna Cosmetic used for staining nails, eyelids and hair It contains the powdered leaves of the Egyptian privet, lausonia incrmis, a tropical loosestrife

Henrietta Maria English queen, wife of Charles I A daughter of the French king, Henry IV, she was born in Paris, Nov 25, 1609 In 1621 a she was born in Parls, Nov 25, 1009 In 1624 a marriage was arranged between her and the English prince, Charles, and in May, 1625, they were married by proxy in Parls, Charles being then king The voung queen then came to England and for 20 years the pair lived together, on the whole quite happily A strong Roman Catholic, Henrietta took part in public affairs and her actions, especially in favouring members of her own faith, undoubtedly added to the many difficulties of her husband At the outbreak of the Civil War.

husband At the outbreak of the Civil War, she got a little help for Charles in France and the Netherlands, but in 1612 she left England and the pair never met again In spite of poverty and insecurity generally, she worked for his cause and later for that of her sons, but without any great success After the

Henry Electrical unit. It is named after the American physicist, Joseph Henry (1799 1878) and is the practical unit

of self inductance

Henry I King of England The third son Selby in 1068 In 1100, after his brother, William I 's, death and when Robert was on crusade, he ascended the throne He reigned for 35 years on the whole successfully and

is regarded as the founder, or at least the able developer, of the English system of Justice

He carried on a war with Robert, whom he defeated at Thochebrai in 1106, afterwards Leeping him in prison for the rest of his life Then he secured Normandy, but further fighting was necessary in order to keep it. He also quarrelled with the church represented by Angelm over the question of investitures

Henry married Matilda, daughter of Mai Henry married Mathias, daughter of Mai colm king of Scotland and a descendant of the earlier English kings. His only legitimate son, William, was drowned in the White Ship in 1120 consequently he left the throne to his daughter, Matilda or Maud Henry died

Dec 1 1135

Henry II. King of England He was 1133, his father being Geoffrey Count of Anjou and his mother Matilda, daughter of Henry I of England in 1153 a treaty was made by which Henry was recognised as Stephen's successor on the throne. He became king of England in 1154, two years after he had married Eleanor Duckess of Aquitaine, the divorced wife of Louis VII of France

Henry released over kindland and his considerable inheritance in France for the next 35 years In highand be restored order after the anar by under Stephen and taking up some of the ideas of his grandfather Heary I, gave the country a number of legal reforms which made for good government. This led him into his funious quarrel with the church and Thomas & Becket whose murder one of the central facts of his reign led to the king's hundlation and to the thwarting of his plans for making the clergy amenable to civil law

In France Henry was chiefly occupied in and the first of France and his own rebellious nobles. In 1173 he had to face a rebellion in England in which his eldest son, Henry, took part His other three sons, Richard I, John and Geoffrey at one time or another rebelled against him He brought Ireland under the against him. He brought Ircland under the rule of England and was one of our greatest lings He died at Chinon July 6 1189

Henry III King of England Born at Winehester Out, 1 1207 he was the son of King John and his wife Isabella of Angouleme He was only 9 years old when, of Angomemic He was only y years old when, in 1216 he beame king and he reigned for the lone period of 56 years. Until 12.7 he was a minor the land being ruled meanwhile by William Marshal Earl of Pembroke, and Hubert de Burgh. His personal rule on the yhole was disistrous. He was influenced by favourities and his marriage in 1236 with I dward IV In 1465 Henry, who had been I hanor of Provence led to the arrival of deposed, was again taken prisoner, but in many needy foreigners who were soon filling 1470 by a sudden reversal of fortune due to many needs foreigners who were soon image 1470 by a sudden revers no normal due to the chief positions in the land Alradi Warwick, he was restored but only for a few restire at these proceedings, the barons in months. I dward IV returned from his exile, 12 % compelled Henry to hand over the crushed the Lancastrians and put the Prince reverant ent to themselves with Simon de of Wales and later his father, Henry VI, to Montfort as their leafer. A little later war death, May 21 1471

restoration of Charles II, she visited England, broke out. Henry was defeated and made but sle lived mainly in France, dying at prisoner at Lewes in 1264, but in 1265 his son. Edward, turned the tables on the barons at Hanry Electrical unit. It is named after with Edward as the real ruler of the country

Henry IV. King of England The Duke of Lancaster, he was born at Boling broke in Lincolnshire, April 3, 1307 He became Earl of Derby, and, as a cousin of the king, Richard II, began to take part in public life being one of the group called the lords appellant, who put a current on the king's power.

appellant, who put a curb on the king's power-in 1398, the year bet're he succeeded his father as Duke of Lancaster, he was sent into exile by Richard II and on Gaunt's death evile by filenard 11 and on Gaunt's dequi-the king selzed his lands. Henry, therefore, returned collected a small army in Yorkshire, and, Richard being in Ireland, he had no difficulty in securing the throne. His title to It was admitted by parliament and, as the first of the three Lancastrian kings, he began to reign in 1399

to reign in 1399

Henry's reign lasted for 13 years It was marked by rebellions, one quite serious, and the persecution of the Lollards He died at Westminster, March 20 1413 Shakespeare wrote two plays on Henry IV

Henry V King of England Born at Monmouth Aug 9, 1387, he was the eldest son of Henry IV He was made Prince of Wales in 1399 and soon began to take part in public affairs, including wars in Wales. part in public affairs, including wars in Wales. in 1413 he became king and, having put down a rising of the Lollards, he claimed the throne of France and went with an army to make of France and went with an army to make good his imaginary right. In Oct., 1415, he won the great victory of Agincourt, on which his fame as a soldier rests, and between then and 1420 he conquered the whole of Normundy, his task being made casy by the civil war in France In 1420 the French king agreed to the Treaty of Troyes, by which Henry was made regent or recognised as the next king On Aug 3, 1422, he died at Vinceunes He married Catherine, a daughter of the King of France and left an only son. Henry VI

Henry VI King of England Be was born at Windsor, 1421, the only son of Henry V, and became King of England and France in 1422 These can is were ruled for him by his uncles, the Dukes of Beaufort and Gloucester as regents, but after a long and costly warfare, his French realm was completely lost. In 1446 he married Margaret of Anjou, but before then the faction fights which led to the Wars of the Roses had begun Henry was quite unable to keep order between the factions, especially after 1453 when he became insane Richard, Duke of York was named protector and in 1455 the civil war begun. The cause of Honry was brayely championed by his wife but in 1460 he was made a prisoner York then claimed the throne, but it was decided that Henry should rule during his lifetime, his rival and not his son succeeding when that agent coursed. not his son succeeding when that event occurred

Under these conditions the war was quickly renewed fork was killed at Wakefield and his son made himself king in 1461 as I dward IV In 1465 Henry, who had been

Henry VII. King of England Born at Pembroke, Jan 28, 1457, his father was Edmund Tudor and his mother Margaret Beaufort, a descendant of John of Ghunt, Duke of Lancaster He inherited from his father the carldom of Richmond and in 1485 claimed the throne He collected an army, defeated Richard III at Bosworth and was crowned Parliament accepted him and he married Elizabeth, daughter of Edward IV

Henry, the first of the Tudor kings, reigned Henry, the first of the Tudor kings, reigned for 24 years. He crushed two pretenders to the throne, but his great work was to lay the foundation of the Tudor monarchy, which he did by husbanding carefully his revenues, keeping the peace, encouraging trade with the Netherlands and crushing the last remnants of baronial independence. He died at Richmond, April 22, 1509. His sons were Arthur and Henry VIII. His daughter, Margaret, married James IV of Scotland and so brought about the union of the crowns in 1603. about the union of the crowns in 1603

Henry VIII. King of England The second son of Henry VII he was born at Greenwich, June 28, 1491, and he was born at Greenwich, June 28, 1491, and became heir to the throne when his brother, Arthur, died in 1502 Well educated, with abilities above the average, possessing an engaging and vigorous personality and wide human interests, he was destined to make his mark upon the history of England and the world Moreover, these same qualities made world Moreover, these same qualities made him popular with his people and enabled him to carry out his autocratic ideas He became king in 1509 and at once married Catherine, daughter of Ferdinand and Isabella of Spain, the widow of his brother, Arthur

The first period of Henry's reign was occupied largely with foreign affairs. The emperor, Charles V and Francis I of France both sought his aid, which he gave first to one and then to the other, but the wars in which he took part were not very serious matter, except, perhaps, for the defeat of the Scots at Flodden in 1513 At this time Henry had for his adviser Thomas Wolsey, arobishop and cardinal In 1591 the directory had believed by cardinal In 1521 the king showed his interest in church matters by writing a book on the sacraments This controverted the views of Luther and won for its author the title of Defender of the Faith

The second period of his reign began about 1526, when Henry fell in love with a lady at court, Anne Boleyn To marry her he decided to the divorce from Catherine This led to the rupture between the Church of England and Rome and to the fall of Wolsey In 1529 a parliament met, which, at the behest of the king, carried out the necessary changes Henry was made supreme head of the Church and the power of the pope in England was des the power of the pope in England was destroyed Bishops were in future appointed by the king and pavments to Rome were forbidden. The work of reform was completed by the dissolution of the monasteries, which provided money for the lavish expenditure of the sovereign. The dissolution of the monasteries led to the rising called the Pil-primage of Grace, but this was soon suppressed. monasteries led to the rising caned the Physrimage of Grace, but this was soon suppressed Meanwhile, in 1533, Henry had married Anne Boleyn, the earlier marriage being declared invalid by parliament.

In 1536 Anne Boleyn, charged with crimes against the king, was executed and Henry

Henry is chiefly regarded as the founder of King's College, Cambridge, and of Eton College It has been proposed to canonise him On him Shakespeare based three of his plays, marned Jane Seymour Sue died very soon, and now anxious to ally himself with the German Protestants, he took for his fourth wife Anne, a princess of Cleves She did not please him and was soon put away, this leading to the execution of the king's adviser, Thomas Cromwell, in 1540 Henry's fifth wife was Catherine Howard, a niece of the Duke of Norfolk, who was beheaded for infidelity The

Noticis, who was beneaded for inidelity. The sixth was Catherine Parr, who survived him Henry died Jan 28, 1547. He left three children, each by a different wife, each of whom succeeded to the throne. They were Edward VI, Mary and Elizabeth.

Henry Name of four kings of France Henry I was a son of Robert I and a grandson of Hugh Capet He ruled from 1031 to 1060, spending time and energy fighting William, Duke of Normandy, and other of his vassals

other of his vassais

Henry II, a son of Francis I, relgned from
1547 to 1559 He is known as the husband of
Catherine de Medici and the father of three
kings, Francis II, Charles IX and Henry III
His daughter married Philip of Spain and
Henry IV of France He was also the lover of
Diane de Poitiers Wounded in a tournament,

Diane de Poitiers Wounded in a tournament, Henry died July 10, 1559

Henry III, the third son of Henry II, was chosen King of Poland in 1573, but he soon left that country and in 1574 became King of France His reign was one of civil war and on Aug 1, 1589, he was murdered

Henry IV. King of France Born at Was a son of Anthony, a member of the Bourbon was a son of Anthony, a member of the Bourbon family and his wife Jeanne d'Albret, Queen of Navarre Although a Protestant he was educated at the court in Paris and in 1572, just before the Massacre of S Bartholomew, he married Margaret, daughter of Henry II, King of France In 1572, also, he became King of Navarre, but his time was chiefly spent in fighting for the Huguenot cause in France In 1589, when Henry III was murdered, he was crowned King of France, but his kingdom remained to be conquered He defeated his Roman Catholic enemies in battle at Ivry and Arques, took Paris and then battle at Ivrv and Arques, took Paris and then declared himself a Roman Catholic In 1598 he granted the Protestants toleration by the Edict of Nantes, and his position remained unshaken until he was murdered, May 14, 1610

Henry Name of seven German kings Henry I, called the Fowler, was Duke of Saxony before he was chosen German King m A D 919 He reigned until his death in 936 and was succeeded by his son, Otto the Great Henry II was a duke of Bavaria who was chosen king in 1002 He was crowned Emperor in Rome in 1014 and died in

1024, being canonised in 1146 Henry III succeeded his father, Conrad II, as emperor in 1039 and reigned until his death in 1056 Henry IV, a son of Henry III, became king in 1056, when he was only six years of age In 1069 he began to rule as well as reign, and he passed a long life mainly in a quarrel with the Church about investitures (qv) In 1074 he submitted to Gregory VII at Canossa, but the struggle was soon renewed and Henry was fighting his old enemies, which included his own sons when he died, Aug 7, 1106 Henry V., a son of Henry IV, continued the

struggle about investitures until 1122, when he came to terms with the pope He died in 1125 Henry VI was a member of the Hohenstaufen family, the son of Frederick I and the

father of Frederick II He reigned from 1190 to 1197, his time being chiefly occupied in Sicily, which kingdom came to him through his wife, Constance Henry VII, a count of Luxembourg, was king from 1308 to 1313

Henry Prince of Portugal, called the Navigator A son of John I and through his mother, a grandson of John of Gaunt, Duke of Lancaster, he was born in Oporto, March 4, 1394 He had a little experience of war, but most of his life was spent at Sagres There he built an observatory and in other ways aided the infant science of navigation, as well as finding money for a succession of voyages of exploration to the Asian and African coasts Some very important discoveries resulted from the voyages organised by him He died Nov 13, 1460

Henry Joseph American scientist 17, 1797, he was educated there and became a teacher He dovoted a good deal of time to experiments with electricity, and in this way discovered the use of the electric current in telegraphy and for other purposes, whilst wireless telegraphy also owes something to him In 1840 he was made secretary to the Smithsonan Institution at Washington He died May 13, 1878

Henry Matthew English divine A Matthew English divine A (1631-96), one of those who were rejected from their livings by the Act of Uniformity in 1662, he was born in Flintshire, Oct 8 (1662 He became a Nonconformist minister at Chester in 1687 and in 1712 moved to London to a church in Mare Street, Hackney. He wrote a popular Exposition of the Old and New Testaments, and died June 22 1714

Henry O Name taken by an American sept 11, 1862, William Sydne, Porter lived a varied life. He was editor of a humorous paper, The Rolling Stone, at Austin, Texas and after a spell as a bank official returned to journalism at Houston. He was there sentenced to a term of imprisonment on a charge of embezzlement. By then he had begun to write, and during the next few years he made a name by his short stories. These have been published in a number of volumes many consider him one of the greatest of short story writers. His works include The Lour Million, Heart of the 11 est. The Trimmed Lamp and The Gentle Grafter He died in New York, June 5, 1910.

Henry Patrick American statesman Born in Virginia May 29, 1736 he became a lawyer after baving tried store keeping and farming His cloquence made him a success in his profession, and, as a member of the legislature of Virginia he advocated taking up the struggle against Great Britain. He took part in the events that led to the union of the Colonies and the Declaration of Independence. In 1788 he was chosen Governor of his state (Virginia) In 1791 he retired from public life and on June 6 1799 he died

Henson Herbert Hensley English 1863 he was educated at Oxford, where he won a fellowship at All Souls College He was related in the Church of Fugland and in 1857 SS was head of Oxford House, Bethnal Green From 1853 to 1895 he was vicar of Barking from 1895 1900, incumbent of St. Mary & Hospital, Ilford, and from 1900

to 1912, canon of Westminster and rector of St Margarot's in 1912 be was made Dean of Durham in 1918, Bishop of Hereford, and in 1920, Bishop of Durham

A broad churchman, deeply read in church history, a fearless thinker and a powerful controversialist, the bishop occupies a unique position in the Church of England He has written a great deal, both books and articles, and has set forward clearly and incisively his ideas of the creeds in modern life, the relations between church and state and other matters His powers were seen at their best during the debates on the revised prayer book in 1926 27 After its rejection by the House of Commons he came forward as an advocate of

discstablishment

Henty George Alfred English writer Born at Trumplington, near Cam bridge, Dec 8, 1832, he went to school at Westminster, and then to Calus College, Cambridge He was in the Crimea during the war in connection with the supply of food Having become a correspondent for The Standard, he saw fighting in Italy with Garibaldi in 1859 60 in the Franco German War, 1870 71, and in Setbla in 1876 He made his name, however, by his stories for boys, which were long the most popular of their kind Most of them deal with advon tures in one or the other of England's many wars They include The Lion of the North, The Cat of Bubastes, The Young Carillaginians, Out on the Pampas and about 70 others He died at Weymouth, Nov 16, 1902

Hepatica Genus of ranunculus plants, related to the anomone. They are natives of Europe and grow easily in Britain They resemble a buttercup and flower in early spring, in several shades of colour, viz, white, blue and red. The leaves are thick, divided into thin oval lobes and often persist through the winter.

Hephaestus In Greek legend the god of fire and metal working. He thus corresponds to the Roman Vulcan He was the son of Zeus and Hera and is always represented as being lame. The story is that his mother, disliking him, threw him off Olympus and so damaged his feet. The making of famous suits of armour, such as that worn by Achilles, is attributed to Hephaestus, who had his workshops in Lemos or in Sielly

Hepplewhite George English cable apprenticed to George Gillow and after wards set up in business for himself in London His work is characterised by delicacy, grace and lightness of workmanship and some of his effects were obtained more by inlaying than by carving The Hopplewhite style of furniture was generally curvilinear, except in cabinets in chairs the shield back was very common He died in 1786

Heptarchy dome, from the Greek hepta It is used for the seven kingdoms into which Fingland was at one time divided and also for the period between the arrival of the Angle Saxons in 119, and the 9th century The seven were Kent, Issex, Wesek, Sussex, Mercia F Anglia and Northumbria

Hera Greek goddess A daughter of Hera Grones and Rhea she was both sister and wife of Jupiter She thus ranks as the queen of the gods Her children included Mars (Ares), Hephaestus (Vulcan), and Hebe

She was one of the three beauties name Sne was one of the three beauties who appeared before Paris, and her vengeful disposition, at the affront then put upon her by him, caused her to side with the Greeks against the Trojans Hera, who is the Roman Iuno, was the goddess of childbirth

Heraclitus Greek philosopher The founder of metaphysics, he pronounced the theory that fire, the first principle, is a rational element governing the universe, from which all things evolve and to which they ultimately return He contended that change is the only stable thing and that not even the gods would escape destruction

Heraclius Roman emperor Born in Cappadocia about 575, the son of a high official, he was renowned as a soldier In 610 he defeated the Emperor Phocas and made himself his successor at Byzantium His reign was passed in war-fare, first with the Avars and then with the Porsians, in both of which he was successful, his greatest victory being over the Persians near Nineveh in 627 He then turned against the Arabs, but there he was less successful, and much of the empire in the west had been lost when he died in 642

Herald Officer entrusted in time of war with messages to the enemy, challenges, peace offers and the like Such existed in Greek and Roman times, and there are many references to their duties in classical iterature They were allowed to come and go unharmed, and to facilitate their work were a distinctive mark of some kind

Heralds were employed in the wars of the Middle Ages, and in the days when knight-

hood flourished were given new duties, these being connected with the bearing of arms All matters of this kind were settled by heralds,

and in this capacity they exist to-day COLLEGE OF HERALDS In England, Richard III, in 1483, made the heralds into a college, also called the College of Arms This windsor, Lancaster, York, Somerset, Chester and Richmond There was a college of heralds in Ireland, and in other European countries, all being concerned with the bearing of arms

To-day the word is used as the name of a newspaper, eg, the Glasgow Herald and the

Darly Herald

Heraldry Term denoting generally all the business of heralds, specifically the art and science of genealogy, pre-cedence, honorary distinctions and armorial bearings In the Middle Ages, after knights assumed them, personal devices extended rapidly The marshalling of badges, crests, coat armour, pennons, helmets and other distinctive devices became important.

Armorial insignia are traced upon a shield or escutcheon, in a tineture chosen from two metals, five colours and eight furs The signs charged on the shield include various simple forms called ordinaries, eg, bends, chevrons, together with subordinaries, eg, orles, lozenges Used at first to distinguish I nights in the field, heraldic insignia came to I nights in the field, heraldio insignia came to appear on personal apparel, books, seals, signet rings, windows, furniture and tapestry hangings. Ten degrees of coats of arms are recognised sovereign states, claims of dominion over another, communities, certain offices, c.g., bishops, succession, assumption, paternal inheritance, matrimonial alliance, adoption and concession. See Coat of Arms. adoption and concession See COAT OF ARMS.

Many other legends have gathered around her Herat City of Afghanistan It stands in name She was one of the three beauties Herat the mountains, being about 2500 ft It stands in above sea level and at the junction of important Persla, 400 m W of Kabul Carpets and silks are made Pop 30 000

Herb Plant whose stem, lacking permanent woody tissue like shrubs and trees, dies down annually. The stem grows from the root annually, biennially or perennially Pot herbs are boiled, wholly or partly, in pots, e.g., the carrot and turnip

In cooking and pharmacy the word denotes for plant sometimes shrubby, used for

any plant, sometimes shrubby, used for flavouring, eg, mint, parsley, or in domestic remedies, eg, tansy, horehound These are dealt in by herbalists, who are, however,

diminishing class Herbals are books describing the qualities and uses of these plants

Herbarium Collection of preserved plants mounted on loose sheets of paper and systematically arranged, sheets of paper and also called hortus siccus The herburium at also called hortus siccus The British Museum History Department), and many universities have one After drying in absor-bent paper, specimens are gummed to stout sheets and stored in shelved cabinets

Herbart Johann Friedrich Born German phil-Herbart Jonann Friedrich German philipolary osopher Born at Oldenburg May 4, 1776, he was educated there In 1805 he lectured in philosophy at Göttingen, and in 1809 at Königsberg, where he succeeded Kant He remained there until 1833, and died at Gottingen, Aug 14, 1841

Herbart's philosophy was based on that of the total country of the country of th

Kant He is better known, however, for his influence on education He imbibed the ideas of Pestalozzi, his friend, and did a good deal to make education and educational methods a His book has been translated into science English as Education and Science.

Herbert English family It came into prominence in the 15th century, It came into when a Herbert became the owner of the great castle at Raglan In 1468 Sir William Herbert became Farl of Pembroke, a title which soon became extinct The existing Herberts are descended from him through an illegitimate son, Richard whose descendants obtained at least five earldoms in addition to other titles Of these the earldom of Torrington is extinct The family still holds the united earldoms of Pembroke and Montgomery the earldom of Carnaryon and the earldom of Powis See PEMBROKE, Earl of

Herbert Alan Patrick English author Born Sept 24, 1890, the son of a civil servant, he was educated at Winchester and New College, Oxford, and became a barrister He served during the Great War in Gallipoli and France with the Royal Naval Naval when it was over made a naval Division, and when it was over made a name by his contributions to Punch In 1924 he joined the regular staff of that paper Herbert's books include Sea Shantes, Plan Jane, Misleading Cases, The Trials of Topsy and The Water Gipsies In 1931, with T F Dunhill, he produced a successful musical comedy, Tanking Towers

Herbert George English poet Born in Montgomery, April 3, 1593, he belonged to the famous border family He went to Westminster School and Trinity College, Cambridge, and was public orator at the university, 1619 27 Ordained, he held a living in Huntingdonshire, but in 1630

he went to Bemerton near Salisbury, with which place his name is always associated He died there and was buried in the church, March 3, 1633 Herbort's poems are in a volume called The Temple, first printed in 1633 It had an extraordinary popularity, some of the verses are religious poetry at its best He also wrote a manual, A Priest to the Temple, or The County Parson His Character and Rule of Holy Life Herbert won a great reputation by his saintly life John Donne was among his friends

Herbert of Cherbury Lord English philosopher Born March 3, 1583, Edward derbert belonged to the famous border family and was a brother of George Herbert. He studied at Oxford, saw military service in Germany and was much abroad Later he was sent by James I as ambassador to France Ho was made a baron in 1629, and in 1642 took the side of the king, but later joined the parliamentarians. He died Aug 20, 1648 Herbert was a considerable scholar and put forward the system of natural religion, which caused him to be regarded as the first of the English deists This is contained in his De Religione Gentilium He also wrote an account of the reign of Henry VIII, an Auto biography, some poems and a treatise (De Verilate) on truth

Herbert of Lea Baron English Sept 16 1810 Sidney Herbert was a younger son of the 11th karl of Pembroke He went from Harrow to Oriel College, Oxford, and in 1832 became M P for S Wiltshire In 1834 as a follower of Sir Itobert Peel he was made Secretary to the Board of Control and from 1841 45 was Secretary to the Admir aity In 1815 40, and again 1852 65, he was Secretary for War, and as such was held responsible for the mismanagement of the campaign in the Crimea From 1859 61 he was again Secretary for War, when he carried through some important administrative reforms He died Aug 2, 1861 having just been made a baron Two of his sons became carls of Pembroke, and his own barony is new merged in that title

Herb Paris Herb of the lily family ndigenous to Europe and Asia and is found in woodlands in Great Britain Its round smooth stem bears a whorl of four acutely oval leaves surmounted by a single malo dorous flower with green sepals and awl shaped yellow petals, forming a black berry It grows to a height of 12 ft

Herb Robert Annual herb of the geranium order (geranium robertianum) It is indigenous to temperate and Arctic Europe and Asia and N Africa and is abundant on British way cides Sometimes called stinking cranes bill it is hairy, often reddish with much divided leaves and dark streaked light red flowers. The name comes traditionally from Robert Duke of Normandy

Herculaneum Ancient town of Italy Herculaneum Stuated on the coast between Naples and Pompell beneath Vesu Nius it was damaged by earthquake, an 63, and buried under mud and lava during the cruption which also destroyed Pompell in 79 Subsequent cruptions deepened the deposit beneath which it lies Discovered in 1719 it was expulsed in the 18th and 18th

centuries Excavations recovered a theatre, villa and other buildings, with a wealth of bronzes, portrait busts, wall paintings, mosaics, instruments papyrus rolls and other objects. These are mostly in Naples Museum The excavations were renewed in 1930

Hercules Latinised name of the mythical Heracles, the chief national hero of Greece Son of Zeus and Alemene, he displayed prowess from his cradle After he had slain his own children in mad fury, the Delphian oracle hade him serve King Eurystheus of Tiryns for twelve years, during which he performed his famous twelve labours which he performed his famous twelve labours He is frequently represented in classical art with a club and a lion skin mantle Hercules is sometimes identified, as a sun god, with the Babj lonian Baal whose worship the Phoenicians introduced into Greece

Hercules Calpe (Glbraltar), and Abyla (Couta), the rocky headlands guarding the Mediterranean outlet into the Atlantic Legend is uncertain whether Hercules joined them or tore them asunder

Herd Group or collection of anything especially of cattle sheep and pigs A herd-book is a book in which the record of pedigree stock is kept for the use of breeders and others Societies of breeders issue such books, usually every year

Herder Johann Gottfried Von German writer He was born Aug 25, 1744, and was educated at the University of Konigsberg He became a teacher at Riga and then a Lutheran minister at Bückeburg an latter at Weimar At Weimar he remained until his death, Dec 18, 1803

Influenced by Kant and Goothe, Horder first made a reputation as a critic but sub sequently turned to philosophy In his reatest work Ideas on the History of Mankand, ne puts forward in a tentative manner the theory of evolution He was a collector of folk songs, and also wrote poems

Hereditament Really a piece of real property that can pass to an heir It is now rarely used except by lawyers when property is sold

Heredity The organic relation between especially between parents and children It deals with the transmission of qualities from parents and remoter ancestors to their progeny

Scientists have long accepted the main facts of heredity and all breeders of animals make use of their knowledge of heredity in mating one with another. Their object is to transmit those qualities which are most useful whether it is the milking qualities of a cow, the speed qualities of a racehorse, the fighting qualities of a gameeock, or the ficsh producing qualities of a pig

producing qualities of a pig

In man the transmission of hereditary
qualities cannot be arranged in such simple
fashion for obvious reasons. These, however,
are transmitted and eugenists and others have
given a good deal of time to studying the value
of such transmission. Although it is generally
admitted that heredity is of great importance
in the development of mental and physical
characteristics, it is equally certain that these
can be modified by the counteracting influence
of environment. See Eugenices.

79 Subsequent eruptions deepened the Hereford City, market and county deposit beneath which it lies Discovered Hereford town of Herefordsbire It in 1719 it was examined in the 18th and 19th stands on the Wye, 144 m from London,

and is reached by the GW Rly. The principal duarters in the Isle of Ely, where he gathered building is the cathedral, a magnificent example of Gothic architecture at various dates It has a library of chained books which was re-opened after renovation in 1931 Other Kingsley wrote a novel on his exploits buildings are Connegsby Hospital and S Ethelbert's Hospital, the churches of All Saints and S Peter, the college of the vicars choral and the episcopal palace Every three years a musical festival is held here, it is given by the choirs of Hereford, Gloucester and Worcester These counties also hold an agricultural show, which comes to Hereford every third year. There is a raccourse The industries include the making of beer and cider and the tanneries are important.

Hereford, owing to its position, was an important place in the Middle Ages, when it became a prosperous centre of the woollen industry its bishopric dates from 672 Pop

(1931) 24,159

The important earldom of Hereford was long held by the great family of Bohun Before their day it was held by several Norman barons, one of whom left a daughter who married Humphrev Bohun Their son was made earl in 1199, and the title remained in the family until 1373 In 1397 Henry, afterwards

family until 1373 In 1394 Henry, atterwards Henry IV, was made Duke of Hereford The existing title of Viscount Hereford dates from 1550, when it was given to Walter Deveroux For a time it was held by the earls of Essex, but later again became an independent title and is still held by the Deveroux family It ranks as the premier

viscounty in the English peerage

Herefordshire County of England In the west of the country, it is on the borders of Wales Its area is 842 sq m Hereford is the county town, other places are Leominster, Ross and Ledbury The Wyo flows through it and the scenery is very beautiful Other rivers are the Lugg, Terne, Arrow and Frome In the cast are the Malvern Hills, in the country of the country of the country of the country of the country is the country of England In the west of the country of England In the west of the country of England In the west of the country of the country of the west of the country the east are the Malvern Hills, in the south the Black Mountains The county is almost entirely given up to agriculture, and is specially famous for its older and its cattle Sheep are reared and hops are grown Its historic interest centres round the border castles, now mainty ruins such as those at Goodrich and Wigmore Pop (1931) 111 755
The Herefordshire Regiment was founded

in 1907 as a territorial or volunteer unit only.
It served in the Great War, and was afterwards incorporated in the Shropshire Light

Infantry

Heresy Opinion or doctrine at variance with recognised standards, specifically of theological belief and procedure It is distinct from schism Heresy has appeared in Christendom since New Testament times (Tt iii) The first heresies were largely The first heresies were largely of Gnostic origin, cg, Arian, Manichaean and Pelagian, and were rigorously contested in early church councils Later the Albigenses, carly church councils Later the Albigenses, Lollards and others were treated as heretics, and many persons were put to death for holding heretical opinions Nowadays heresy is a purely ecclesiastical offence Any olergyman or minister proved guilty of heresy is deprived of his office Notable heresy hunts were those of Bishop Colenso in S Africa, and of W Robertson Smith in Scotland

Hereward English soldier called the Wake He was a holder of land in Lincolnshire in 1066 He rebelled against the Normans and made his head-

Hergesheimer Joseph American hovellst. He was born in Philadelphia, Feb 15, 1880, and for a time studied art In 1915 he made a name with his novel, Mountain Blood, and rose to the front rank with The Three Black Pennys, 1917, The Brant Shaul, 1922 The Presysterian Child, 1923, Tampreo, 1926 Swords and Roses, 1929, and The Limestone Tree, 1931

Heriot George Scottish goldsmith Born in Edinburgh in June, 1563, he served James I and his wife, presumably by buying lewels for them He died in 1624. He figures as "Jingling Geordie" in The Fortunes of Nigel

Heriot's name is commemorated in Edinburgh by Heriot's Hospital, a school erected in the 17th century, and the Heriot Watt College, a modern technical college The estates left by Heriot are controlled by the Heriot Trust, and the income is used to finance the college and for bursaries Herkomer Sur Hubert English painter. Born in Bavaria, May 26, 1849, he was brought to England by his father, a wood carver, and educated at Southampton

1849, he was brought to England by his father, a wood carver, and educated at Southampton About 1869 he made a name with some sketches and later with his paintings, "The Last Muster" and "Found" In 1879 he was elected A,R A and in 1890 R.A, in 1907 he was knighted Herkomer is best known for the school of art he founded and conducted at Bushey He was Slade Professor of Fine Art at Oxford 88, 94, and alog in 1914 R.L.

Herm Small island of the Channel Islands
After the Great War it was bought by an English company for development as a holiday resort, and can be visited in the summer from Guernsey, 3 m distant. Pop 33

Hermaphrodite individual capable of producing both spermatozoa and ova, and therefore possessing the function of both sexes. The condition is normal in plants whose flowers contain stamens and pistlis, although self-fertilization is less usual than cross fertilization. Some invertebrates are normally self-fertilizing, eg, the ovster and the clam Earthworms are both hermaphroditic and copulative, two individuals simultaneously impregnating each other

Hermes In Greek mythology one of the gods, a son of Acus and the counterpart of the Latin Mercury His early exploits included the theft of the girdle of the highest and the relation Herman He Aplroids included the trident of Poseidon He became the messenger of the gods, and conducted the souls of the dead to the lower world. He was the god of eloquence and of luck, the

patron of travellers and traders
Hermitage Cell or home of a hormit.
Warkworth and another on an island in Derwent-water Hermitage Castle, now a ruin in Roxburghshire, was a famous border strong-hold, held first by the Comyns and later by the Douglases

A palace at Baircuth is called the Hermitage, but more famous is the one at Leningrad, built by Catherine II in 1765 and long a residence of the tears. In the 19th century it was converted into a museum and art gallery A famous French wine called Hermitage is produced at Valence, on the Rhone

Hermon Mountain of Syria. At the end species, Ardea cinerea, with long legs and neck, great wings and pointed bill, is the only one 9400 ft. high, it has remains of a temple built now breeding in Britain. It is about 3 ft. long Its modern name is in honour of Baal Jebel es Sheikh

Herne Bay Seaside resort and urban district of Kent, 7 m from Canterbury and 62 m from London, on the S. Rly Pop (1931), 11,244 Herne is a S Rly Pop (19 village 1 m inland

Herne Hill District of London, about S Rly Brockwell Park is in the district, which

Also has a running track Hernia (or Rupture) Escape from the abdominal cavity of some part of the intestine or its appendages especially in the groin region, often the result of strain in prodisposed persons In children, and adults who wish to live an active life, operation is generally advisable In elderly people the generally wearing of a truss to reduce the hernia is the more common treatment though in special cases an operation becomes absolutely essential

Hero in classical legend a superior being or demigod, intermediate between cods and men They appeared in the Heroic gods and men Age, an era preceding the Historic Age,  $e\,g$ , Horcules, Theseus The name includes also Hercules.

Horcules, Theseus The name includes also the principal personages in national opics, cg, Achilles, Hector, Ulysses and Acneas A Hero Fund, founded by Andrew Carnegic, crists to assist cases where loss of life or carning power has resulted from acts of heroism in saving human life under peace conditions in the British Isles

Hero Figure in Greek legend a priestess of Aphrodite at Sestos on the Hellespont See LEANDER

Herod Name borne by princes of a Judacan dynasty of Idumacan origin Herod the Great, born 74 BC, was for a time ruler of Calllee On his father's death he was recognised by the Romans as King of the Jows in 40 n c and he was ruling when Jesus was born He founded cities and rebuilt the temple at Jerusalem The New Testament tells how he ordered the Massacre of the Innocents, and

ne ordered the massacre of the Innocents, and of his dreadful death in 4 Bc (Matt. ii) Other Herods were Herod the Tetrarch, who h headed John the Haptist (Matt. ir), Horod Agrippa I, who executed S James (Acts xii), and Herod Agrippa II, before whom S Paul appeared (Acts xxii)

Herodians Political party, not a religious sect, which actively supported Herod the Great's Idumacan divnasty (Matt xili, Mark ill) Thoy shared the antagonism of the Pharisees to Christ, and were condemned by Him

Herodotus Greek historian, born at about 484 BC He travelled extensively, and

dicd probably in 424

The history of Herodotus is in nine books written in the Ionic dialect. It deals with the early history of Persia Lydia and Egypt, but its main theme is the structle between the creeks and the Persians It ends in 478 I rom it we cain much of our knowledge about Marathon, Thermopylae and Salamis

Heroin Drug obtained from morphine by the employment of accide acid at is used in medicine as a scentive and narcotic but can be bought or sold only by licence

Heron Large subfamily of birds allied to the bitterns The common grey

and its large, flat, moss lined nests shelter palo green eggs Occasional visitants to Britain are the great and little white heron, or egrets, and the night heron, nyclicorax

Herons live together in heronries, and there are still a number of these in England, eg, at Parham, in Sussex

Herpes Inflammation of the skin Ves icles are formed which later dry into a crust Two forms are common, around the nose and lips and on the body (shingles) The former accompanies or follows certain fevers the latter chiefly affects elderly people

Herrick Robert. English poet Born in London in 1591, he was the son of a goldsmith, and apprenticed to that trade, but went to Cambridge and was ordained In 1629 he became Vicar of Dean Prior in Devonshire, and there he remained until the Puritans turned him out in 1647 After the Restoration he went back to his Devonshire living and there he died, Oct. 15, 1674 He is buried at Dean Prior

Herrick wrote many poems, including the collections called Noble Numbers and The Hesperides
Among them are the lyrics, perfect of their kind, that have made his fame, such as 'Bld me to live' "Cherry Ripe," and "Gather ve Rosebuds"

Herries Lord Scottish title First he by Herbert Herries in 1490 First held passed by marriage to the Maxwell family, whose descendants, earls of Nithsdale, forfeited their titles in 1715 In 1858 it was successfully claimed by William Constable Maxwell whose granddaughter, Baroness Herries, married the Duke of Norfolk

Herring Fish allied to the pilchard It is abundant in northern waters, especially in the North Sea The fish, which is extraordinarily prolific, spawns twice a year, summer and autumn The eggs are laid on weeds, etc., in comparatively shallow water, The fish and hatch out in two or three weeks

takes two or three years to become mature Herrings move in shoals near the surface of the water and are caught mainly in drift nets An enormous quantity is taken into the ports on the L coast of Great Britain Some of these are sold fresh, but the greater part are salted and dried to become bloaters, or smoked to become red herrings or kippers, giving riso to a large industry, especially in \(\) armouth where, during the season, thousands of women are employed. The catch of herrings in Grat Britain in 1930 worth £1,998,812, was represented by 276,274 tons of fish \(\) Norway has also related by the beauty of the property. also valuable herring fisheries

Herring Bone Phrase used in architecture It describes the design of courses of stone wherein oblique ness to the right in one alternates with obliqueness to the left in the other, so that the formation of a herring s backbone is imitated. There is also a herring bone stitch in needlework

Herrings Battle of the Hight between the English and the French Feb 12 1429 The English vere trying to take Orleans and a little force set out to bring provisions chiefly herrings for eating in Lent The French and their Scottish allies met them at Rouvray and a battle took place in which the I nglish were victorious Herriot Edouard French statesman Born July 5, 1872, at Troyes, he became a brilliant classical scholar In 1897 he wrote Philon le Juif, which was crowned by the Academy, and later Madame Recamier et Ses Amis and other books showing scholarship of a high order.

In 1912 Herelet, entered public life as a

In 1912 Herriot entered public life as a member of the Senate He was later chosen leader of the Radical party, in 1924 he became premier, but events compelled his resignation in 1925 He again became premier in May, 1932, and in July signed the Lausanne agree-ment for France Later he held cabinet rank and was engaged upon questions of reparation, war debts and economic peace

Herschel Sir Frederick William English astronomer Born in Hanover, Nov 15, 1738, he went to England in 1757 and after much hard work on making and improving telescopes, he discovered the planet Uranus His other discoveries included the planet's satellites, many double stars, and numerous nebulae In 1782 he was made astronomer to George III and in 1816 a knight He died at Slough, Aug 25, 1822 Herschel's sister, Carolina Lucretia Herschel

(1750 1848), did valuable work as an astro-

(1750 1848), did valuable work as an astronomer, and also compiled a star catalogue
Herschel left an only son, John Frederick
William Herschel, born March 7, 1792 At
Cambridge he was senior wrangler and he
there gave his time to studying astronomy
He mapped out all the stars in the Northern
Hamicrapes and founded an observators at Hemisphere, and founded an observatory at the Cape of Good Hope to do the same for the Southern Hemisphere In 1838 he was made a baronot, and he was president of the Royal Society From 1850-55 he was master of the mint, and he died May 12, 1871 His writings include The Outline of Astronomy

Herschell Baron English lawyer Herschell, the son of a Nonconformist minister, became a Q C in 1874, and was elected M P for Durham From 1880 85 he was Solicitor General in the Liberal ministry, and in 1886 Lord Chancellor and a peer Ho died in Washington, March I. 1899, when engaged on the arbi-tration about the boundaries of Venezuela

Hertford Borough and market town of Hertfordshire It stands on It stands on Its industries the Lea, 24 m from London its industries include brewing, printing and there is an agricultural trade Pop (1931) 11,376

Hertford Marquess of Title borne by the family of Seymour In 1537, Edward Seymour, uncle of King Edward VI, was made Earl of Hertford Later he became Duke of Somerset, and his grandson, William Seymour, was made Marquess of Hertford and Duke of Somerset, but the restford and Duke of Somerset, but the mar quessate became extinct when the 4th duke died in 1675 In 1750, Francis Sevmour, a descendant of the first Duke of Somerset, was made Farl of Hartford and in 1703 Marquese made Earl of Hertford and in 1793, Marquess of Hertford. Francis Charles, the 3rd marquess (1777-1842), inherited much wealth from his mother, and was known for his gallantries and his extravagances He figures as the Marquess of Steyne in Family Fair The eldest son of the marquess is called the Earl He figures as the Vanity Fair The

Hertford House House in London the Wallace Collection It is in Manchester Square

and was built late in the 18th century magnificent collection of pictures and works of art which it contained was left by the 4th Marquess of Hertford to Sir Richard Wellace, who added to it and bequeathed it to the nation The Government then bought Hertford House, and it was opened to the public in 1900

Hertfordshire County of England One of the home counties, it covers 632 sq m and lies between the shires of Cambridge, Middlesex, Bedford, Buckingham and Essex It is hilly in the west, where are spurs of the Chilterns The chief rivers are the Lea and the Colne The Grand Union canal and the New River pass through the county and the southern part is in the area of greater London Hertford is the the area of greater London Hertford is the county town Other places are St Albans Letchworth and Watford Agriculture and market gardening are the chief industries Pop (1931) 401,159

The Hertfordshire Regiment was raised as a territorial unit in 1907. It sent battalions to the Great War and is now incorporated with the Bedfordshire Regiment

Hertz Heinrich Rudolf German scientist, born in Hamburg, Feb 22, 1857. Following in the wake of Clerk Maxwell, he studied the experimental production of electromagnetic (or 'Hertzian') waves His discoveries were the first steps towards wireless communication He died Jan 1, 1894

Hertzog James Barry Munnik South African politician, born April 3, 1866, of Boer parents In the war of 1899-1902 he held an important command, and after the annexation of the republic appeared as a champion of the Boer cause. In 1915 he was champion of the Boer cause In 1915 he was elected leader of the Nationalist party, and as such repeatedly claimed independence for South Airica In 1924 he became premier and was still in office in 1936

Name of an English family represented by the Marquess of Hervey

Bristol Its members were specially prominent in the 18th century, and its most famous member was John, Lord Hervev (1696-1743), son of the Earl of Bristol, who wrote Memors of the Court of George II

Herzegovina District of Yugoslavia and Mostar is the chief town For some centuries it was a Turkish possession, but in 1878 it was put under the protection of Austria In 1908 it was annexed, along with Austria In 1908 it was annexed, along with Bosnia, by that empire, and in 1918 it was included in the new kingdom of Yugoslavia

Hesione In Greek legend, daughter of Laomedon, King of Troy, Poseidon, having been employed to build the city walls by Laomedon, was refused payment To avenge himself he sent a sea monster which could only be restrained by the sacrifice of a king's daughter, and Hesione was selected for the sacrifice Hercules rescued her, but Laomedon refusing him the promised reward, Hercules slew him and gave Hesione as a bride to Telamon

Hesperides In Greek mythology, guarded the golden apples which Earth gave Hera when she wedded Zous Usually numbering three, Aegle, Erythela and Hesperus, their gardens bordered the occan in the farthest west, and are sometimes located near Mt Atlas One of the twelve labours of Hercules was to the procure the fruits after slaying their guardian,

Hesse State of Germany, one of the members of the republic In the west of the country, it covers 2968 sq m, and is partly an agricultural region, cereals and vines being grown, while in some districts coal and iron are mined. It is governed by a small cabinet responsible to a diet or landtag Pop 1,347,300

Hessian Anything belonging to Hesse

Hessian

The Hessian fly is an insect that, in its larva stage, is harmful to wheat, barley, rye, and

other cereals

Hessle Market town and urban district of Yorkshire (ER) It is on the Humber, 4 m from Hull and 192 m from London It has industries similar to those of Hull Pop (1931), 6430

Heston District of Middlesex It is 12 m from London, on the District Rly It is a flying station with an air park. With Isleworth in forms a borough Pop (1934)

75,446

Heterodyne System of wireless re ception. In it the in coming oscillations are combined with locally generated oscillations of slightly different fre quency glying rise to a 'beat" effect which is audible after rectification

Hetton Urban district of Durham, 256 m from London and 7 m from Coal mining is the chief industry

Pop (1931), 17 672

Hever Village of Kent, on the Eden, near
Hever Edenbridge, 27 m from London
lts castle where Anne Boleyn lived, was re
stored by the 1st Viscount Astor Pop 700

Hewart Lord English lawyer Gordon Hewart was born at Bury Jan 7, 1870, and was called to the Bar in 1902 In 1913 he was elected MP for Leicester as a Liberal in 1916 he became Solicitor General and in 1919 Attorney General in the coalition ministry. In 1922 he was made Lord Chief Justice and a laron. His book The New Despotsm attracted a good deal of attention when published in 1929

Hexameter Name given to a verse of In English poetry there are two kinds the lamble with the last syllable accented and the trochaic, with the accent on the first syllable

Hexateuch Greek term meaning six modern Bible scholars for the first six books of the Old Testament. It is analogous to Pentateuch or five books

Hexham Market town and urban district its abbey church once belonging to an Augus tinian priory. It is a magnificent ediffice the nive is modern. The industries are mainly H1CCOUGH tractions of the diaphragm connected with the agricultural interests of muscle common in children, and very often the the district in which there are also coal mines, result of eating or drinking two quickly. Give Pop (1931) 8883

Outside Hechain on May 15 1464 a battle was fought between the Yorkists and the Lancastrians in which the Lancastrians were

defeated

Heysham Scaport and watering place of Lineashiro on the south side of Moneymbe Bay 5 m from Lancaster From here steamers go regularly to Belfost, Dougla- I on londerry and cliewhere and for these the L M.S. 1 ly Co has built docks and enlarged the harbour. Pop. 3350

Heywood Borough and market town of Lancashire, 9 m from Manchester Cotton, chemicals and machinery a e made here. Pop (1931) 25 967

Heywood Thomas English drama-tist. A Lincolnshire man, be was born about 1570 and became an actor His plays include The Four Prentices of London, A Woman Killed with Kindness, The English Traveller and The Captines, or The Lost Recovered He also wrote poems and pageants and was responsible for a Life of Queen Elizabeth He died in 1641

Hezekiah King of Judah known for his activities in two directions He put down idolatry and restored the worship of Jehovah, destroying the brazen scrpent and repairing the temple at Jerusalem. He refused to pay tribute to Sennacherib, king of Assyria who invaded his land twice, and whose army was utterly destroyed by a pestilence on the second occasion Hezekiah reigned from 726 to 697 BC and his story is told in 2 Kings xviii xxvi and 2 Chron xxix-xxif. The prophet Isaiah also refers to him.

Hawatha Name of a Red Indian chief of the Onondaga tribe He lived about 1500 AD and recon iled warring tribes with his League of Six Nations The name is also used for a miraculous legendary being who taught the arts of peace to the Red Indians, and his exploits are narrated in Longfellow's poem, Hiawatha

Hibbert Trust Charitable foundation Is 1847 Robert Hibbert (1770 1849) gave money to found scholarships and fellowships for the study of religion. free from all sectarian and denominational considerations This became the Hibbert Trust, which provides lectures, and since 1902 has sup-ported The Hibbert Journal a monthly review.

Hibernation Dormant condition or winter sleep characteristic of certain animals such as bears dermice, A similar resting stage occurs and insects and insects. A similar resting stage occurs among tropical forms during the dry scason, and in Britain a summer sleep is met with in certain reptiles, amphibia, and worms. Hibernation is usually due to lack of food, and during this period the temperature of the body falls, the activity of the organs lessens, respiration is feeble and the vitality is at a minimum Hibernia Latin name for Ireland, sometimes used to day. See Inserting

IND

Hibiscus Herbaceous plant of the genus consist of about 200 varieties of tropical and sub tropical herbs and shrubs and are prized as ornamental plants for their large and brilliantly coloured blossoms Some are culti-vated for their mucliage

Hiccough involuntary spasmond contractions of the diaphragm a pinch of blearbonate of soda in water or 1 teaspoonful of milk of magnesia in water, sipped slowly. In the case of a baby, give I teaspoonful of dill water and hold him firmly up against the shoulder while patting him on the back

Hickory Genus of N American trees of the walnut order (Carya) Cultivated for their elastic timber and calbie nuts they include the shellbark, yielding the best nuts, the pecan, the white heart or mocker nut, and the pig-nut. The timber serves for axietrees, tool-handles, barrel-hoops and golf-clubs, and makes compact charcoal

Hicks Sir Edward Seymour English actor Born at St Heller, Jan 31, 1871, he first appeared on the stage in 1887 and in 1905 opened his own theatre, The Aldwych Hicks has written many plays including The Man in Dress Clothes and The Beauty of Both also several backs among them Threath. Inc Man in Dress Clothes and The Beauty of Bath, also several books, among them Twenty-four Fears of an Actor's Life; If I were your Father, Chestauts Re-roasted and Hullo Australians He married, in 1902, the actress, Ellaline Terries In 1931 he was made a Chevaller of the Legion of Honour and was prighted in 1992, 1925

knighted in June, 1935
Hidalgo In Spain, a title used by the
Hidalgo lesser nobility. It seldom denotes, nowadays, more than gentle birth and gives no official status

Hierarchy Term denoting a body orders for ruling over sacred things The Jewish hierarchy comprised high priest, priests and Levites The Council of Trent anathematised all who reject the divinely appointed hierarchy of bishops, priests and ministers The celestial hierarchy comprises "angels, archangels and all the company of heaven

Hiero Name of two rulers, or tyrants, of Syracuse. Hiero I reigned from Hiero I reigned from 478 to 467 BC His fleet won a victory over the Etruscans in 474, but he is better known for the hospitality he extended to Acschylus, Pindar and other scholars

Hiero II was a soldier who lived from 270 He was made King of Syracuse and took part in the struggle between Rome and Carthage, first as the ally of Carthage and

then of Rome

Hieroglyph Pictorial character em-other records, including those of the Hittites and the Mayas This system began with pictographs outlining objects, e.g., an eagle, but always with conventional meanings, which might become ideographic if interpreted literally, e.g., a circle for the sun, or symbolically, e.g., a musical instrument for gladness

At first carred on stone or painted on wood this hieroglyphic or priestly writing was used for other materials, e.g., papyrus Egyptian writing passed by the 4th century A D into a

Coptio alphabet

Higgins Edward John English preacher Born at Highbridge and educated at Bridgewater, he joined the Salvation Army in 1882 He was chosen, in 1929, general in succession to W Bramwell Booth.

Higham Ferrers Borough of North-Nen 62 m. from London and 5 m from Wellingborough The staple industry is the making of boots and shoes Pop (1931), 2928

High Blood Pressure Pressure of the blood unhealthily in excess of the normal (about 120 mm of mercury) It is most often due to the hardening of the arteries which is apt to occur with advancing years and the best

prevention is healthy living during adult life
People with high blood pressure should
adopt a simple and moderate diet, avoiding
rich foods, and alcohol except in strict modera tion plenty of water should be drunk between meals, moderate exercise taken and worry must be strictly avoided Scs Arterio ARTERIO SCLEROSIS

Highbridge Urban district of Somerset and 27 m from Bristol, and is on the little River Brue The GW Rly has works here Pop (1931), 2584

Highbury District of London, about highbury 4 m N. of the city, in the borough of Islington Highbury Park is a pleasant residential district Highbury Flelds is an open space At Highbury is the ground of the Arsenal Football Club

High Commissioner Name given to one who represents his country in another country From time to time men are sent out as high commissioners, an instance being Sir Alfred Milner who went to South Africa as high commissioner in 1897. The representatives of missioner in 1897 The representatives of Canada, Australia, New Zcaland, India, South Africa and the Irish Free State in London are Lord High Commissioners

A high commissioner is appointed by the king each year to represent him at the annual Assembly of the Church of Scotland.

The Court of High Commission was organised in England in the reign of Elizabeth to see that the services of the Church of England were conducted according to the Act of Uniformity It was abolished in 1641

High Court of Justice English court of law In 1873, when the judicial system was reformed, the high court was established. It is in three divisions, chancery, king's bench, probate, divorce, and admiralty Each probate, divorce, and admiralty Each division has its quota of judges who are appointed on the advice of the Lord Chancellor They are knighted and receive a salary £1000 a year and a pension The judges sit in London, at the law courts in the Strand, except against decisions of the high court to the court of appeal, which forms the higher branch of the supreme court of judicature

Higher Criticism Term used for the books of the Bible It is directed rather against their historical accuracy than against their literary qualities or moral teaching, and so called to distinguish it from the lower criticism of the actual tert.

Highgate District of London to the N divided between the boroughs of S Pancras and Islington, with the N part in the county of Middlesex Highgate Hill is a landmark, whilst Highgate Woods is an open space of 69 ages. Whittington's Stone is here High-69 acres Whittington's Stone is here High-gate School is a large public school with accommodation for nearly 700 boys

Highlands Any elevated land, but especially that part of Scotland that lies N of the Grampians, or N of a line drawn from Ben Lomond to Aberdeen It includes the counties of Argyll, Inverness, Ross and Cromarty, Sutherland, Catthness, Ross and Cromarty, Sutherland, Caithness, Banff, Nairn, and Aberdeen, although the coastlands of the last three shires are usually excluded. It is mountainous, the scenery in parts being of extraordinary beauty, especially where locks lie amidst the mountains. With a poor soil, the Highlands are thinly peopled and much of the land is devoted to deer forests and grouse moore Inverness is usually regarded as the capital of the Highlands

The Highlands have their own language and customs, and form a distinct part of Scotland, although this distinction is now less marked than it was before 1745, when the clan system of furniture, especially chairs, is the chief was dominant. The language is Gaelic. The industry, and there is an agricultural trade Highland sports are seen at the various Highland sports are seen at land games held every year in different centres The district has its own music, in which the bagpipes play an important part.

The Highland regiments of the British Army

are those that wear the Highland dress They are the Black Watch, Cameron, Seaforth, Gordon, and Argyll and Sutherland Highlanders. The Highland Light Infantry does not wear the kilt and is not, strictly speaking, a Highland regiment

The Highlands have a famous breed of cattle, and their cattle shows are notable The Highland Rly is now part of the L M S

 $\cdot$ rstem

High Priest Chief priest, specifically thurch Josephus enumerates 83 from Aaron to Phannias, AD 67 He kept the anolating oil, were vestments of special magnificence, and entered alone, in white linen, into the Holy of Holles on the Day of Atonement

High Sheriff Name used to day for the sheriff of a county in England and Wales He is appointed for a In England and Wales He is appointed for a vear from among the landowners in the county, and discharges duties connected with the administration of justice For the routine work he appoints a lawyer as under sheriff The sheriffs are named, or pricked, by the Chancellor of the Exchequer, three names from each county are submitted to him, but by custom he pricks the first For Lancaster and Cornwall, they are chosen by the King as Duke of Lancaster and the Prince of Wales as Duke of Cornwall as Duke of Cornwall

High Tor Hill of Derbyshire It over and is 400 ft high In it is a grotto, and opposite are the Heights of Abraham

High Water Highest point to which a coast It is usually every 12 hours, 25 min and is therefore 50 min later each day There is similarly a high tide in tidal rivers

Highway Main road The care of the the various councils through whose territory they pass their work being supervised to some vicat by the Ministry of Transport The Highway Code is the name given to the regula tions for using the roads prepared under the important Road Traffic Act of 1930 See ROAD

Highwayman Robber on the public flourished in the 17th and 18th centuries, and in the 19th until the building of railway lines. They were usually mounted and masked and accosted travellers passing over heaths or any desolate area in the neighbourhood of London of other large centres. Hounslow Heath and Blackheath were noted haunts of highwaymen Charles Duval (1643 70) excelled in daring and culiantry John Nevison (1639 84), and Dick Turpin (1706 39) were heroes of a ride to York, probably apocryphal

High Willhays Hill of Devongent on Dartmoor It attains 2039 ft and is nached from Okehampton 4 in to the north

High Wycombe Borough and market town of liuckinghamshire, also known as Chipping Wycombe, 27 m from London The making

combe which it has been proposed to preserve to show what an English village was like

Hilary Snint and bishop Born about the year 300, he became a Christian, and about 350 was appointed Bishop of Poitiers He opposed the Arians and was banished to Phrygia by the Emperor Constantine, whence he governed his diocese as before Later Hilary went to Constanti opic but again he attacked the Arians, and was sent back to Poitiers where he died in 368 He wrote various theological works, and his feast occurs on Jan 13

Hilary is a term at the Inns of Court and the University of Oxford It begins about Jan 13, and lasts for three or four weeks

and lasts for three or four weeks
H1lda English saint and abbess Born in English saint and abbess Born in 614, she was a relation of Edwin King of Northumbria She was appointed abbess of a house at Hartlepool, and later she founded one at Whitby which became very famous and where the abbess received Caedmon She died at Whitby Nov 17 680
H1ll Sir Rowland English reformer Born at Kidderminstor, Dec 3, 1795, he is known for his services to postal reform, as it was mainly through his efforts that the penny post was introduced in 1840 He was knighted in 1860, and died Aug 27, 1879
Another Rowland Hill was a famous preacher, who, in 1783, built the Surrey Chapel, now a

who, in 1783, built the Surrey Chapel, now a boxing centre, in the Blackfriars Rd, London

H111 Viscount English soldier Born in Shropshire, Aug 11, 1772, Rowland Hill held a high command in the Peninsular War and also at Waterloo From 1828 to 1842 he was Commander in Chlef In 1814 he was made a baron, and in 1842 a viscount. He died Dec 10, 1842

H111 Fort Stronghold or fortified place examples exist in Great Britain English and Irish are usually earthworks, Welsh and Scottish are usually of stone Many were usually of stone Many were stilled in Republication and Norman times. Scottish are usually of stone Many were utilised in Roman, Saxon and Norman times Some occupy promontories or mountain crags, natural defences were supplemented by artificial ramparts sometimes concentric, and protected by ditches Malden Castle near

Hillsborough Town of Co Down
m from Belfast Hillsborough Castle is the sent of the Marquess of Downshire, the head of the fanily of Hill Pop 514

Harlton Harold Horsfall English golfer Born Jan 12, 1869, in 1892 he won the English open championship, a for the repeated in 1897. He was amateur champion 1900, 1901, 1911 and 1913, and he also won the Irish championship on four occasions. In 1911 he won the Amateur Championship of the United States. Since 1913 Hilton has been editor of Golf Illustrated

Hilversum Town and watering place of the coast 18 m from Amsterdam, and is a rallway junction There are various attractions for visitors including a kursaal There is also a powerful broadcasting station (206 1 M, 20 (7) I W) Pop (1932) 59 632

Himalaya Range of mountains in Asia containing the highest peals

in the world They are between India and Tibet and stretch for nearly 1600 m from Afghanistan to Burma Their width is about 200 m The system consists of several ranges First are the foothills, perhaps 3000 ft high, then comes the outer Himalayas, perhaps 3000 ft high, and finally the Himalayas proper, with an average height of 18,000 or 20,000 ft There are passes through the mountains but the stretch for nearly 1600 m from from Haslemere and 39 from London Its common is a famous beauty spot and near it many literary men, including Tennyson, have lived The Devil's Punch Bowl, a glen below the Portsmouth Road, is notable Near is Gibbet Hill The common belongs to the National Trust

with an average height of 18,000 or 20,000 ft There are passes through the mountains, but these are difficult, as they are all above the snowline, which is 15,000 ft The highest peak is Everest (q v), others are Kanchenjunga, Dhawalaghirl and Kamet Most of the attempts to climb these peaks have failed, but in 1931 Kamet was conquered The Ganges, Indus, Brahmaputra, Sutlej and other rivers rise in the range Sometimes the Karakoram range is included in the Himalayan system The word Himalaya means, in Sanserit, "the abode of snow"

Hinchingbrooke Village of Hunt-adjoins Huntingdon, and here is Hinching-brooke House, the seat of the Earl of Sandwich At one time the residence of Oliver Cromwell, it is a fine house dating from the 16th century Hinchingbrooke is also the name of an

island off the coast of Queensland

Hinckley Urban district and market town of Leicestershire, 14 m from Leicester, on the LMS Rly The chief industries are the manufacture of hosiery, boots Pop (1931) 16,030

Hindenburg Town of Silesia, Germany, It is 66 m from Oppeln on the Silesian coalfield and is a railway junction as well as a manufacturing centre for machinery and chemicals Pop 106,900

Hindenburg Paul von German Bosen, Oct 1, 1847, and in 1865 entered the Prussian Army as an officer He served in the war against Austria in 1866, and in the war of 1870.71 eggingt Epopus 1870-71 against France During the years of peace he rose steadily in rank until he became peace he rose steadily in rank until he became a general at the head of an army corps. In 1911 he retired, but in 1914 he was recalled to active service and given command of the German forces in E. Prussia. He won the Battle of Tannenberg, and drove the Russians out of Germany. At this time he became the idol of the German people, a status he never wholly Germany At this time he became the idol of the German people, a status he nover wholly lost He then led an army into Poland, where he gained the victory at Kovno and captured Warsaw He became in Aug, 1916, head of all the German Armies, with Ludendorff as his Chief of Staff He remained in command throughout 1917 and 1918, and after the Armistice until 1919, when he retired In 1920 he published a volume of reminiscences translated into English under the title of Out of my he published a volume of reminiscences trans-lated into English under the title of Out of my Life In 1925, the old marshal was elected President of the Republic, and re elected on April 10, 1932, after a second ballot When Hindenburg died in Aug, 1934, Herr Hitler combined the office of President with that of Chancellor in his own person

Hindenburg Line Name given to defensive positions made by the Germans in 1916-17 It ran from Vimy, near Arras, protecting Cambrai, St Quentin and other places, to Laon It was very strong, but shorter than the one held previously by the Germans and called the Siegfried line In Sept and Oct, 1918, the line was broken by the British and French advance

and near it many literary mon, including Tennyson, have lived The Devil's Punch Bowl, a glen below the Portsmouth Road, is notable Near is Gibbet Hill The common belongs to the National Trust

Hindley Urban district of Lancashire, from London by the L MS and L NE Rlys. There are collieries and cotton mills. Pop. (1931) 21 629

Hindlip Village of Worcestershire, Am. from Droitwich The chief building is Hindlip Hall, the seat of Lord Hindlip In 1886 Sir Henry Allsopp, head of a firm of brewers, was made Baron Hindlip

Hinduism Social and religious organisa-tion in India It is a development of Brahmanism and is divided into a number of groups There were in 1931 altogether 239,195,140 Hindus in India, and they are thus the dominant people in the land Early Brahmanism was affected by Buddhism and both existed down to about A D 800, when and both existed down to about A D 800, when the latter disappeared from the peninsula, leaving a new Brahmanism, the product of both philosophies This modern Hinduism, based on the Puranas, gives less prominence to Brahma than to his associates Vishnu, the preserver, and Siva, the destroyer and reproducer They are worshipped in innumerable forms, both in their male and female aspects, the latter being emphasised by Saktlism, which derives its teaching from the Tantas

Hindu Kush Mountain range of Central Asia, W of the Himalayas, mainly in Afghanistan Its length is 350 m and its breadth about 200 The highest point, Tirach Mir, is 25,400 ft high There are many others over 20,000 ft

Hinkler Chick Bert Australian airman, born at Bundaberg in Queens-land in 1894 He entered the flying service and land in 1894 He entered the flying service and after the Great War made several notable flights The longest was his flight from Croydon to Port Darwin, 10,340 m in 15‡ days, in Feb, 1927 In Nov, 1931 he crossed the Atlantic from Brazil to Africa In January, 1933, he set out from Britain on a flight to the several of the discovered and in Arrive He discovered Australia He disappeared, and in April his body was found in the mountain wilds of Tuscany, where his machine had crashed.

Hip Projecting part of the human body, formed by the side of the pelvis and the top of the thigh bone, with the fiesh covering them, in quadrupeds it is called the haunch The human hip extends from the waist to the upper part of the thigh The thigh bone's knobbed head forms with the cup-shaped hollow outside the pelvis a ball-and-socket hip joint, whose dislocation may be congenital or perhaps accidental Chronic tuberculosis in the hip joint is not infrequent in young children There are special hospitals in London and elsewhere for diseases of the hip

Hipparchus Greek astronomer Born at Nicaca, Bithynia, he worked mostly in Rhodes He discovered the procession of the equinoxes, calculated closely the mean lunar month, improved astronomical instruments, catalogued many hundreds of stars, and first determined terrestrial positions in terms of latitude and longitude. He thus founded plane and spherical trigonometry, and

ranks as the greatest astronomer of antiquity He wrote a good deal, but only one of his works survives

Hippocrates Greek physician, born about 460 BC in the about 460 BC in the said of Cos He belonged to a family of priests and doctors, and lived mainly at Cos and Chidus practising his art. He died in 377 Hippocrates is called the father of medicine

and for centuries his oath was the one taken by medical graduates. He was much in advance of the ideas of his age, and in some ways anticipated the modern treatment of disease, his views on diet being equally sound. He believed in surgery and his mind was thoroughly scientifie in its outlook. He left a number of writings which have been translated into English

Hippodrome Oblong place, more or less embellished by art, for running charlot races and subsequently horse races in Greece The word is now used for a place of amusement, whether music hall, theatre or cinema house The London Hippo urome is in Cranbourn St., W C

Hippolyte Legendary queen of the Amazons and the daughter of Ares One story is that she invaded Attlea, but was defeated by Theseus, who married her Better known is the story of the girdle she wore This was the gift of her father, and one of the labours of Hercules was to obtain it In so doing he killed the queen

Hippolytus Greek hero The son of one story, of Hippolyte, he was loved by Phaedra, his stepmother As he did not return this love Phaedra killed herself and left Theseus to rerard her son as the offender Theseus to regard her son as the offender Theseus called Poseidon to destroy Hippolytus who was thrown by his frightened horses into the sea Aesculapius restored him to life the subject of a play by Euripides

Hippophagy Practice of eating horse lithic man hunted wild horses for food before domestication began The ancient Greeks called some Scythian nomads Hippophagi, and horse cating survives in Central Asia Horseftesh was consumed in Paris during the terror in 1793, and the siege in 1870 1 It is regularly sold in Belgium and Germany, and forms an ingredient in some French sausages In Great Britain the law forbids the sale of horseflesh unless it is distinctly stated what it is

Hippopotamus Large mammal now only found in tropleal Africa The ordinary kind H amphibius, is about 14 ft long and may weigh 4 tons It lives on land by the side of rivers, but can swim and remain under water for about 10 minutes In colour its skin is brown or slate It has even In colour its skin is brown or slate It has even toes short limbs and large tusks. Its skin and lvory are valuable Fossil remains of the hippopotamus have been found in England

Hippo Regius Ancient city of N.
220 m W of Carthage near the modern scaport
of Bona It was founded by the Carthaginians
and was the residence of the Numidian Lings
Later it was one of the richest cities of the
Roman Empire and here for 35 years S.
Augustine was bishop In the 7th century it
was taken by the Arabs, and soon fell into ruin

Hire Purchase System by which raid for by a series of instalments. In the

United States almost everything, except food stuffs, is bought in this way. It is used in selling motor cars, furniture, and gramophones, and, to some extent, for clothing Its prevalence is regarded by some as responsible for the serious depression in trade that began in 1930

The system has spread to Great Britain, where many motor cars and much furniture are bought by hire purchase Some firms trade almost entirely in this way, whilst all the large firms make arrangements for payment by

instalments

English law on the subject is somewhat com plicated Goods bought on the hire purchase system remain the property of the seller until the last instalment is paid This is usually laid down in an agreement signed by the buyer The seller retains the right to take back the goods if an instalment is in arrears, and the buyer cannot sell them until they become legally his cannot sell them until they become legally his In practice, however, firms do not act up to the limits of their power, but make an allowance for the money already paid if they take back the goods, whilst the courts are very inclined to show leniency to buyers when cases are brought before them A hire purchase agreement must bear a sixpenny stamp

Hirohito Emperor of Japan Son of the Emperor Taisho, he was born April 29, 1901 He succeeded his father in 1926, but had been virtual ruler since 1921, when his father retired from public life owing the Ulberth History His great aim is peace and to ill health prosperity at home and abroad

Hiroshima City and seaport of Japan Overlooking a bay on the S coast of the main island, it is 155 m from Osaka Ranking next to Kobe in commercial importance on the inland sea, it is a large cotton spinning centre and a depot for artistic wares Multitudes flock to the bay annually to visit the ancient Shinto temple, one of Japan s three chief wonders on the Itskushima or Island of Light. Pop (1930) 270,417

Hirst George Herbert. English cricketer Born at Kirkheaton, Yorkshire, Sept. 7, 1871, he became a professional cricketer and first played for his county in 1892 For nearly 30 years he was one of the mainstays of the team both as a batsman and a bowler, and on many occasions played for England against Australia As an all round cricketer Hirst has probably only been surpassed by Grace and equalled by another Yorkshireman, Rhodes From 1920 to 1930 he was cricket coach at Eton College

Hispaniola Old name for the island of Halti It was given to it by Columbus and means "Little Spain"
Histon Village of Cambridgeshire 4 m from Cambridge, on the LNE Rly The village is a centre for jam making Pop 1400

Historiographer Official historian After the Renais sance kings sometimes appointed a scholar as historiographer royal eg Bolleau and Racino by Louis XIV, Voltaire by Louis XV and James Howell by Charles II The old office of King a Historiographer in Scotland was revived in 1763

History Record of events It is derived from a Greek word meaning knowledge and in its widest sense is a know ledge of past events in all fields of human activity. The more general use of the word is for the past activities of nations

History is divided into ancient and modern,

before ancient history begins being either archaeology or anthropology Ancient history lasts until the fall of the Roman Empire in the west, mediaeval history dates from 400 to 1453 or 1492, and modern history from then

onwards. The first great historian was Herodotus

(qv), the father of history Other great names among the ancients were Thucydides, Livy and Tacitus Although Thucvdides and Tacitus have never been surpassed as philosophic historians, they did not adopt the scientific method of testing all their statements, a method which began in the 18th century and received a great impetus from the labours of Ranke, whose only rival as the greatest of modern historians is Gibbon.

At Oxford Cambridge London and classical statements.

At Oxford, Cambridge, London and elsewhere history is one of the subjects in which courses and examinations for an honours degree are In London there are the Historical held Association and the Royal Historical Society at 22 Russell Square The University of London has opened an Institute of Historical Research, under Professor A F Pollard, at Malet St, Bloomsbury The English Historical Review is published monthly

Town of Iraq, on the Euphrates, 33 m. N of Ramadie and 85 from Bagdad. Nor Hamadie and 85 from Bagdad. It may be the Ahava mentioned in the Old Testament (Ezra viii) The Euphrates is navigable up to this point and from Hit caravans cross the desert on the way to Damascus It is noted for its gardens, and near are rich supplies of bitumen The town was occupied by the British in March, 1918

Hitchin Market town and urban district of Hertfordshire, 32 m. from London, on the L N E Rly Girton College was founded here in 1869 The chief industries are malting and dealing in agricultural produce Pop (1931) 14,382

Hitler Adolf German politician Born in Austria, April 20, 1889, he was first an architect Having settled in Germany he became prominent by raising a body of volunteers to oppose the social democrats In his followers engineered a rising Bayaria, but this was suppressed and Hitler was sent to prison for five years Soon released, he joined the National Socialist Party and quickly came to the front He organised the party, which was known as the Nazis, and this soon became a power in the land. In 1930 100 of its members were returned to the Reichstag, and in 1932 Hitler, having become a German citizen, stood at the presidential election against Hindenburg and polled several million votes His party won great successes at the elections in Prussia and other parts of Germany From that time the Nazis gradually cermany From the time that the standing gained ascendency, and after becoming Chancellor in 1933 Hitler was virtual dictator He confiscated the funds of the Communists, put down the Socialists, and drove the Jews from Ley positions in Germany In Oct he announced Germany's withdrawal from the Dicerman of Conference and in Aur. 1931 Disarmament Conference, and in Aug., 1934, he succeeded to the Presidency on the death of Hindenburg, thus holding the chief offices of the state He visited Saarbruccken after the transference of the Saar to Germany by plebiscite vote and made a famous declaration in May, 1935, on German armament policy Four months later he invited the League of Nations to examine the Memel position. Hitler has written a book, Mein Kampf (My Ballle),

or ancient, mediaeval and modern, the period; and has put forward various schemes for reform, some of a very drastic kind

Hittites Ancient people in Asia Minor The Biblical names Heth and Hittito indicate a people almost unknown until modern exploration revealed, from 1870 onmodern exploration revealed, from 1870 on wards, various distinctive monuments Prof. Sayce announced in 1880 the discovery of a forgotten Hittite empire once flourishing in Asia Minor The people apparently used horsed chariots and pictographic characters of horsed chariots and pictographic characters of Indo-European affinity, which are still undeciphered Established in Cappadocia, their federation took place about 1400 BC, and their kings reduced the kingdom of Mitanni, fought and made treaties with Egypt, and maintained relations with Mesopotamia They disappeared about 1200 BC Reviving subsequently at Carchemish they were finiled. sequently at Carchemish, they were finally overthrown about 800 BC

Hoar Frost Term applied to the small crystals of ice formed on the surface of exposed objects when the dewpoint or temperature of saturation of water vapour falls below 32° F Hoar frost is seen especially on nights when the sky is clear and the atmosphere calm A typical example is the ice pattern formed on a window

Hobart Capital and seaport of Tasmania, on the S side of the island It has a fine harbour on the River Derwent and Jocks, wharves and warehouses It is the commercial centre of the island and has fine university and parliament buildings The industries are shipping, flour milling, fruit preserving and brewing Pop (1932) 58,270

Meindert Dutch artist, born Hobbema in Amsterdam in 1638 and died there Dec 7, 1709 After his death he was recognised as one of the greatest of the painters of Dutch life He is represented in the National Gallery, London, by "The Avenue of Middelharnis," "Showery Weather," and other works

Hobbes John Oliver Pen name of the English novelist, Pearl Mary Teresa Craigle The daughter of John Morgan Richards, an American business man who settled in London she was born in Boston, Nov. 3, 1867 She made a reputation with Some Emotions and a Moral, 1891, and other novels Emotions and a Moral, 1831, and coher novels The School for Saints, 1897, and Robert Orange, 1900, are her best books Her plays include The Ambassador She died Aug 13, 1906

Hobbes Thomas English philosopher Born at Malmesbury, April 5 1588, the son of a clergyman, he was educated 1588, the son of a ciergyman, he was caucated at Oxford He spent some vears as tutor with the Cavendish family, and travelled with his pupils He associated with Bacon, Ben Jonson and other men of note, and passed a good deal of time in study, especially of mathematics and philosophy In 1640 he went abroad and philosophy In 1640 he went abroad and of time in study, and philosophy In 1640 he went abroau and was for a short time tutor to Prince Charles, later Charles II He returned to England in 1651 and hved quictly under the Commonwealth and then under Charles II, who gave him a pension He died at Hardwicke Hall,

Dec. 4, 1679

The fame of Hobbes rests upon The Leviathan, published in 1651 It is a cogent arguthan, published in 1991 It is a constant being the state, and it has had enormous influence on political thought. In 1640 he wrote a treatise in defence of the royal prerogative.

John Berry. English cricketer Born in Cambridge, Dec. 16, 1882 English cricketer Hobbs Hobbs became a professional cricketer and

Hoboken City and river port of New Jersey, U.S.A., on the Hudson River opposite New York, the two cities being linked by ferry boats and railway tunnels Shipping is an important industry and thore are some manufactures Pop (1930) 59,261

Hobson Thomas Carrier at Cambridge He kept a livery stable and attained notoriety by his stubborn refusal to let out his horses except in their proper order, hence the phrase "Hobson's choice," which means no choice at all

Hoche Lazare French soldier Born at Montreuil, June 25, 1768, in 1793 ho was made a general He defeated the Austrians and the Russians, but he is better known as the man who put down the Royalist rising in La Vendée, and as the leader of the force that landed in Ireland in 1796 He was made Minister of War, but died Sept 18, 1797

Hock German white wine, especially the Hochheimer, a still or sparkling wine produced at Hochheim near Mainz Similar Australian and Californian wines from the Riesling, or hock grape, are less acid

Hockey Outdoor game played by men are a hard ball and a stick with a curved end, the object being to drive the ball through the goal which resembles the one used in association tootball A side consists of eleven players, five being forwards, three half backs, two backs heing forwards, three half backs, two backs and a goalkeeper The ground should be 100 vds long and 55 or 60 yds wide. In front of each goal is a striking circle, and to score a goal the ball must have been hit from this The ball must not be played with any part of the body, but only with the stick which must not be raised above the shoulder.

There is a Hockey Association founded in 1886, and international matches are played. The rame is also played on ice where the

The game is also played on ice where the number of players is seven or eight a side

Hocking Joseph English author Born of the United Methodist Free Church and, like his brother Silas Hocking made a name as a

nis brother shas nothing made a hanc as a novelist. His first book was Jabez Easterbroof 1891 followed by others in quick succession. The Furnal Choice appeared in 1932.

Hocking Silas Kitts English writer Born in Cornwall, March 24, 1850, he was educated for the ministry of the United Methodist Free Church From 1870 to 1896 he served as a minister In 1878 he made a reputation with a story, Her Benny and many others followed most of them being very

popular In 1923 he published My Book of Memory He died in Sept 1935

Hocktide Seeding al English feetival kept Hocktide on the second Monday and Tuesday after Easter day Hock Tuesday and

expenses Hodson william Stephen Arch 19, 1821, William Stephen Raikes English he became an officer in the Indian Army, and as a leader of the Guides saw a good deal of service on the frontier. He is best known as the leader of Hodson's Horse irregular cavalry that did fine work during the Mutiny After the fall of Delhi, he pursued the fugitive princes and shot them with his own hand He was

release being devoted to church or parish

wounded at Lucknow, and died March 12, 1858 Hoenir God of Norse mythology He Ooze, and is represented with long legs like a stork He is said to have given speech to man and woman when they were made, and to have first used the divining rod.

Hofer Andreas Tirolese patriot Born when the French invaded the Tirol in 1797 Ho collected a body of his countrymen and led thom in an irregular warfare until about 1805 In 1809 he took the side of Austria against France and won some victories for his beloved land, which for a few weeks he ruled Peace however, was soon made Austria giving up the country, but he continued to fight the French until his forces were beaton He was then betraved, and, after a trial, was shot at Mantua, Feb 20, 1810

Hoffmann August Heinrich German poet Born April 2, 1798, German at Fallersleben in Luneburg, he became librarian at the University of Breslau, and in 1835 was made Professor of German Literature there, but he lost his post in 1842 when he published a volume called Unpolitical Songs In 1860 he became librarian at Corvei and there

he died, Jan 19, 1874

Hoffmann is one of Gormany's national poets and his songs became very popular, especially in 1848 because they expressed the national sentiment. He was the author of Deutschland, Deutschland über Alles

Hoffmann Ernest Theodor Wilhelm Born at Königsberg, Jan 24, 1776, he became a lawyer, but had also interests in literature, art and music He held official positions in the public service from 1796 to 1806, after which he spent ten years as a wanderer In 1816 he received an official post in Berlin, which he held until his death June 25, 1822 Hoffmann is famous for his fairy stories which have been translated into Fnglish He also wrote short stories and novels in the romantic vein

Hofmann Josef Casimir Polish musician Born at Cracow, Jan 20, 1876 the son of a professor of music, he studied at Warsaw and appeared in public as a planist when a boy He gave recitals in London, New York and other capitals, composed concertos and sonatas and wrote on plano playing In 1927 Hofmann was made director of the Cartis 1927 Hofmann was made director of the Curtis Institute of Music in Philadelphia

Hogarth William English painter and Ho was born in London Nov 10, 1697, and was apprenticed to an engraver in silver but turned later to engraving for book illustration. Under Sir James Thornhill he studied painting, and his numerous portraits show romarkable technical skill sympathetic treatment and power of Michaelmas were rant days in rural Fugland skill sympathetic treatment and power of A favourite diversion was for women on Hock Wonday and men on Hock Tuesday to bind those in which he satirised the life of his time rassers by of the opposite sex, the toll for as seen in The Rake a Progress" in the Somo 645HOLDA

idon, and "Marriage à la Mode" Gallery He died Oct 25, 1764 house in Hogarth Lane, Chiswick, eum, where a number of his works

lames Scottish poet Called the Ettrick Shepherd, he was born in although without education, soon to verse In 1801 he became known lter Scott, who included in his strelsy several ballads supplied by 803 his first volume of verse, The sus his first volume of verse, The sard, was published, and he wrote sheep About 1810 he left the d settled in Edinburgh, where he cond volume, The Forest Minstrel, a paper called The Spy. In 1813 at The Queen's Wale, his greatest then settled on a farm in Dumfries-former he was a followed by the a farmer he was a failure, but he eat deal, both in prose and verse, rticles in Blackwood's Magazine He 21, 1835

Village of Lancashire, between on Village of Lancasnire, between Preston and Blackburn, 213 ondon, on the L.M.S. Rly Hoghton 16th century house, is associated tory of James I, when visiting there, the loin of beef

anay Word used in Scotland for New Year's Eve It is a ierry making, and is marked by the presents

Back Elevation in Surrey, part of the North Downs It 10 m long and 500 ft high, and from Guildford to Farnham, with a

ng the top

head Term applied to a large
cask of varying capacity for
sugar, tobacco, molasses, etc A
of tobacco weighs from 12 to 18 cwt.,

lot tobacco weighs from 12 to 18 cwt., dian sugar 13 to 16 cwt. As a measure capacity a hogshead of wine equals as of ale, and beer 54 gallons

enlinden Willage of Bavaria, 20 m from Munich Here, 3, 1800, the French under Moreau a great victor, over the Austrians lar poem by Thomas Campbell de-he battle

enstaufen family It took its rom a castle in Württemberg Before member of this family was made Duke bia In 1138 Conrad of Hohenstaufen bin in 1138 Contrat of Indicated and de German King, and the family kept lee until 1254. Its most famous memore the great emperors Frederick I and lek II. The family became extinct when in was executed in 1268

ienzollern German family, members of which ings of Prussia, 1700-1918, and German ors, 1871-1918 The name is taken from called Zollern in Württemberg, about from Stuttgart From the 11th century junts of Zollern gradually became more ful until they held an important place

ful until they held an important place; the German princes
1415 Frederick of Hohenzollern was made ave, or Elector, of Brandenburg, and his sors, especially Frederick William, called reat Elector, made this into an important. In 1700 the Elector became King of ia, and his successors, the greatest being rick II, were kings until 1918 In 1871.
William I was made head of the proven

In 1871 William I was made head of the new

German Empire and the Hohenzollerns played a great part in European history until William II abdicated in 1918 A branch of the Hohenzollerns ruled until 1848 over a little principality in S Germany. One of them, Charles, was made King of Rumania in 1918, and the Hohenzollerns are still rulers of that country.

Hokkaido Name used for the N part of the Empire of Japan It includes the island of Yezo, the S part of Sakhalin and the Kurile Islands

Hokusai (Katsushuka) Japanese painter Born in 1760, he became the most famous artist of the popular school Of a very independent character, he followed no other painter closely, and his work is of unusual delicacy His independence also caused him to cling to his peasant ancestry, and he died in poverty in 1849

Holbeach Market town and urban district of Lincolnshire, 8 m from Spalding and 100 from London Near the town is a stretch of reclaimed land known as Holbeach Marsh Pop (1931) 6111

Holbein Hans German painter. Born about 1460, he is known as Holbein the Elder to distinguish him from his famous son of the same name His works show the beginning of Italian influence on German painting The best are in the cathedral at Augsburg and in other German cities He died in 1524

Holbein Hans German painter and engraver Born at Augsburg in 1497, he was the son of Hans Holbein the Elder At an early age he showed great promise. Eider At an early ago no snowed great promist in art, especially in engraving, designing of stained glass and decorative work. In 1516 he removed to Basle and later visited England where Sir Thomas More commissioned him to paint portraits, and in 1536 he was appointed court painter to Henry VIII. He died of the plague in London in Oct or Nov, 1543 Helbein is one of the world's great portrait.

Holbein is one of the world's great portrait painters He painted Henry VIII, Anne of Cleves, Jane Seymour, the Duke of Norfolk, Cleves, Jane Seymour, the Duke of Norfolk, Erasmus Melanchthon, and many others equally famous He was also responsible for several religious pictures and some woodcuts. Some of his paintings are at Windsor, others in the National Gallery, London, the Louvre, Paris, and in Vienna His wonderful painting of Morett the jeweller is at Dresden, and "The Ambassadors" is in Lougford Castle, Salisbury

Holborn Borough of the county London Covering only acres, it lies between the city and Westminster The district includes Bloomsbury, Lincoln's Inn and Gray's Inn Holborn Viaduct was built in 1867 69 to carry the road over the valley where the River Holbourne once flowed It is 1400 ft long, and on it is the City Temple. Pop (1931) 38,816

Holbrooke Joseph Charles. English musician Bornat Croydon, July 6, 1878, the son of a musician, he was a pianist and conductor, but his reputation rests mainly upon his compositions In 1901 he produced The Raven, his first orchestral work. A number of others include Queen Mab, The Bells, Auld Lang Symc He also wrote operas and ballets, as well as a comic opera, The Snob, and gave concerts of modern English chamber music in London and in the provinces Holbrooke has also written in the provinces Holbrooke has also written a great number of songs

Holda Figure in German folklore She is a kindly goddess and appears much

646

iry stories. When it snows it is said that a is making her bed and the feathers are z about She is represented as driving in t and is regarded as the goddess of domestic nd agriculture

ilden Sir Edward Hopkinson English banker Born in Manchester May 818 he became a clerk in the Manchester ity Bank in 1866 He moved to Birming where he became manager of the Birmin and Midland Bank About this time the of banking amalgamations began, and in he took a leading part. In 1898 his bank, ng takin over others became the London and Midland Bank and of this he was aging director in 1918 it took over the don Joint Stock Bank and later became wn as the Midlaud Bank Of this the cet in the country Holden was chalman managing director until his death, July 2 ,, From 1996 10 he was a Liberal M.P , and

909 he was made a baronet

11den Sir Isaac English manufacturer

7, 1807 the son of a Cumberland miner
became a teacher in Paisley, but soon
ed to Leeds and from there to Reading 830 he gave up teaching and took a position a bookkeeper to a firm in the woollen ustry at Cullingworth Holden invented a of combing machine that proved a success started in business with Samuel C. Lister, rwards Lord Masham A little later he ned mills at Bradford with his sons, and iconcern became very prosperous. He was aboral %1 P. 1865 68 and 1880 85 and in 3 was made a baronet. As a Liberal ionist he represented the Keighley division. 5 95 He died Aug 13, 1897 gus was made a baron in 1908 llis son

olderness District of Yorkshire, FR formerly called a wapon e extending from the Humber to Spurn

The title Earl of Holderness was held by the 1 Yorkshire family of Daroy from 1682 to 78 Robert the 4th earl was Secretary of ate from 1761 to 1761. His estates passed to s con in law the Duke of Leeds

lole Samuel Reynolds English elergyman He was born Deo 5 1819 his lather ing a brewer and landowner at Caunton near work. He became curate and then ylear of aunton where he was also squire. In 1887
was chosen Dean of Rochester. He died
12 27 1904. Hole was a man of many
terests, a humorist who counted John Leech id Thackerny among bis friends and an hi te who hunted and shot. He is best known, rl us as a growr of roses and a writer on is and other subjects. His books include A not about his es Memories and More Me nories

Iolford Sir George Lindsay English collector Born June 2 1860 was the son of Robert S Holford who built or the ter He use I ark Land London and was great all ctor of works of art. His collections en 1 ft to his son Sir Ceorge who in 1923 ld son e of his possessions. After his death a sept 11 1920 the pictures and books cert 1 sold the pictures fatching over £5 0 000 rd the books £200 000. Dorchester House r) cas pulled down

Holinshed Raphael English chronicler He lived in the 16th century and was a translator in the employ o Perinal i

Chronicles of England, Scolland and Ireland, 1577 which was one of the sources used by Shakespeare He was a Cheshire man by birth and died about 1580

Holkham Village of Norfolk, 2 m from in the family of Coke since 1650 and here the Larl of Leicester, known as Coke of Norfolk carried out correspond to the control of th carried out experiments of great benealt to agriculture

Holland District of Lincolnshire

Holland District of the Netherlands. The name means the low I'll name means the low in he low in his land in the 15th century it became part of the duchy of Burgundy which belonged to the great empire of Charles V. It passed to Charles son, Philip II, and was one of the provinces that revolted to form the Dutch Republic Since then the word has been loosely used for the republic and for the kingdom that succeeded it

North Holland and South Holland are twoprovinces in the kingdom of the Netherlands The former contains Amsterdam but Haarlem is its chief town The Hagne is the capital of See NETH RIANDS the latter

Holland Baron English title borne by the family of Fox Henry Fox was born at Chiswick Sopt. 28, 1705, and in 1763 was made a peer He bought the London residence called Holland House Charles James

Fox was his younger son
The 4th baron edited his father's Memoirs of the Whig Party When he died in 1850 the

Holland Sir Thomas Henry, English Recientist, He was born Nov 22. 1568 of Canadian panentage He was Director of Geological Surver in Ind a 1903 1909, Professor of Geology in Man hester University, 1509 1918 and Restor of the Imperial College of Science 1922 1929 In 1929 he was president of the British Association, and he has

one a great deal of wor on scientific matters on commissions and committees in 1929 he become Principal of Ldinburgh University Holland House Rossidence in stands in a park between Kensington Road and Uxbridge Road, and is the property of the Lari of Helester, the heir of the Fox family in the Jacobson style the house was built by in the Jacobean style the house was built by Sir Walter Cope about 1810 It was a social, literary, and political centre of the Whig Party during the time of the 3rd Lord Holland (1800 1845) The Holland House circle included Fox, Macaulay, and Sidney Smith

Holland Park District of London It and Notting Hill adjacent to the park in which stand+ Holland House

Hollander Born in Victoria 1864 he settled in London in 1883 In 1809 he was naturali-ed and soon made a reputation as a specialist on nervous and mental disorders He helped to found the Ethnological Society no peed to found the Ethnological Society and put forward a scientific system of phrenology. He collected a great number of facts about the working of the brain, and wrote much for scientific journals about its functions. He died beb., 1931

Hollar Wenceslaus Bohemian artist Born in Prague July 13 1607, he worked in Antwerp and elsewhere In 1637 off a Printer With governl assistants he he settled in England where he was drawing replied a book in two volumes called The master to Prince Charles, later Charles II 647

German towns, and engraved a map of London in 1666, showing the area of the great fire He died March 28, 1677

Holloway District of London, in the Borough of Islington, about 3 m N of the city Here are the Northern Polytechnic Institution, the prisons of Penton-ville and Holloway, and the Caledonian Market.

Holloway College College for the education of women Thomas Holloway, a Plymouth man, made a large fortune by the sale of pills and ointments, chiefly by advertising at a time when few traders spent money in this way He died Dec 26, 1883, and left £600,000 to found the college, as well as money for a sanatorium The college, opened in 1886, is at Englefield Green in Surrey accommodates sanatorium The conege, opened in 1830, is at Englefield Green in Surrey, accommodates about 350 pupils, and has a fine collection of pictures, left by the founder It is a college of the University of London

Holly Large genus of shrubs and trees of the holl, order (Nex) They are native in every continent, but are mostly found in Central and S America The common British and European I aquifolium is an evergreen with ash; hark, wavy, spiny, glossy, smooth leaves, and small white flowers bearing scarlet berries The greenish white wood furnishes walking sticks and teapot handles, the sap from the bark formerly provided bird lime. The leaves and berries are largely used as a decoration at Christmas time. It grows to a height of 30 or 40 ft and specimens of 80 ft have been noted. Cultivated forms, including Japanese, have vellow berries, variegated leaves and drooping branches. in Central and S America The common leaves and drooping branches

Heaves and drooping branches
Hollyhock Hardy perennial herb of the
mallow order (Althaea rosea)
It is a tall plant with lobed leaves and a spike
5 or 10 ft high of single purple, pink, yellow,
or white flowers It came to England in the
16th century, and is a favourite in cottage
gardens Cultivated varieties include many
double blooms, some displaying darker shades
such as crimson and almost black. such as crimson and almost black.

Hollywood Centre of the American film industry It is in California, W of Los Angoles, and has a beautiful climate and surroundings ANGFLES

Holme Lacy Village of Herefordshire, on the Wve, 5 m from Hereford Here is Holme Lacy House, long the seat of the Scudamore and Stanhope families. represented by the Earl of Chesterfield Bulk in the 17th century it is now the property of the county council of Herefordshire

Holmes Oliver Wendell American writer He was born at Cambridge, now part of Boston, Aug 29, 1809 After a period of study in Paris, he became a doctor, but ten

rears later gave up the profession for a literary life. He died Oct 7 1894.

One of the most charming and quietly thoughtful of American writers, Holmes made thoughtful of American writers, Holmes made his reputation with The Autocrat of the Breakfast Table, 1858, which appeared first in the Atlantic Monthly Later came The Professor at the Breakfast Table, and The Poet at the Breakfast Table Over the Teacups, one of his later books, is in a similar vein He wrote a powerful novel, Elne Venner, two others called The Guardian Angel and A Mortal Antipathy, also a book of travel, One Hundred Days in Europe, lives of R W. Emerson and J L Motley, and much verse

Hollar made drawings of several English and | Holmfirth Market town and urban German towns, and engraved a map of London | Holmfirth district of Yorkshire (W.R.) It is 6 m from Huddersfield, and a centre of the woollen industry. Pop (1931) 10,407

Holmium Rare metallic element having the symbol Ho, and atomic weight 163 5 It occurs along with other rare earths in the minerals gadolinite in Sweden, and samarskite in N Carolina Holmium was isolated in 1879 from the earth, erbium oxide, Holmium was obtained from gadolinite

Holm Oak Evergreen species of oak tree (Quercus ilex) Native in the Mediterranean region, it is also called holly-oak It has glossy dark-green leaves, more or less prickly edged, but sometimes without prickles, its acorns are short-stalked It sometimes reaches a height of 90 ft The dark-brown wood is used for furniture, and in Spain for fuel.

Holocene Term sometimes usen in geology for the period corres ponding to the quaternary epoch of some authorities. It follows the pleistocene period and extends down to the present day

Holofernes Commander of Nebuchad-nezzar's army The story, told in the Book of Judith, part of the Apo-crypha, is that with an army he came to besiege Jerusalem but a malden named Judith made her way into his camp, gave him wine until he fell into a drunken sleep, and then cut off his head, so saving the city

Holograph Term applied to a doon-ment written entirely by the one who signs it, as in the case of a will in the handwriting of the testator By Scots law a holograph will is valid even if the signature is not witnessed.

Holst Gustav English composer, born at Cheltenham, 1874 His compositions include The Planets, Ode to Death, The Cloud, Lydon Heath, The Perfect Fool, and others for voices, strings and organ He died May, 1934

District of Germany It lies Holstein District of Germany It lies between the Eider and the Elbe, and has Kiel for its chief town. It is an Ento, and has keel for its cinet town. It is an egricultural area and has some large lakes. In the Middle Ages Holstein was part of Saxony it then became a county and with Schleswig in the N was ruled by the King of Denmark who, in 1864, after a short war, surrendered the duchies to Prussia and Austria. In 1866 Prussia obtained both, and retained Holstein at the peace of 1919

Holsworthy Market town and urban district of Devonshire, 46 m from Exeter A horse fair is held hore in July In 1819-26 a canal was made from Holsworthy to Bude, but it is not now used. Pop (1931) 1403

Town of Norfolk, 10 m from Cromer Holt Town of Nortons, to me to the third of the There is a grammar school founded in 1555 by Sir John Gresham, who was born here It is now a large public school with fine modern buildings, and is controlled by the Fishmongers'

Company Pop (1931) 2249

There are other Holts in England. One in Wiltshire, 94 m from London Pop 1000

Holy Alliance Treaty signed in 1815
Alexander I of Russia, Francis II of Austria
and Frederick William III of Prussia By it
they undertook to apply the principles of
Christianity to the countries over which they
wiled and to other countries with which they ruled, and to other countries with which they

had dealings Other Furopean sovereigns signed the treaty later It helped to keep the peace in Europe for some years after the over throw of Napoleon

Holycross Ruined abbev in Tipperary, Irish Free State It is on the Suir, 4 m from Thurles, and was founded in 1182

Holyhead Market town scaport and urban district of Anglesea It is on Holy Island on the L M S Rly, and is chiefly known as the port of embarkation for Ircland The older harbour is used for fishing Pop (1931) 10 707

Holy Island Name of several islands One is off the const of Anglesca. It covers 15 sq m, and on it stands Holyhead

Another Holy Island is off the coast of Northumberland also called Lindisfarne Holy Land Name used by Christians, especially in the Middle

Ages, for Palestine
Holyoake George Jacob English
Holyoake politician Born in Birming
ham April 13, 1817 he became a chartist, and
in 1843 was imprisoned for blasphomy. In 1854
he issued Secularism, the Practical Philosophy
of the People Ho wrote also A History of
Co-operation in England, The Limits of Atheism
Sixty Years of an Agilator's Life and Bygones
Worth Remembering He died in 1906

Holy of Holies Juner chamber of the temple It was "the most holy place," with and meroy seat and was separated by a vell from the outer chamber "the holy place

Holy Orders or degree of persons ad mitted to the Christian ministry by the laying mitted to the Christian ministry by the laying on of hands of a bishop lawfully ordained. The Anglican Church recognises three grades bishops priests and diacons. In the Roman Catholio Church the major or sacred orders included also subdeacons.

Holy Places Localities in and near with Christ's life They include the Holy Sepulchre, Gethseman Olivet, Bethlehem and other sacred sites. The Pope entrusted their custody to the Franciscums in 1230 and later this authority passed to France, but the subject was complicated by the fact that the Turks were in possession Difficulties over the custody of the Holy Places between I rance and Russia representing western and eastern Christianity helped to bring about the Crimean War

Holyrood Royal palace in Edinburgh tounded in 1128 by King David I and was so named because it possessed a piece of the true cross It belonged to the Augustinian Canons

and was destroyed in the 16th century
Near the abbey James IV built a palace
and this was a residence of the Scottish kings Here Mary was married to Darnley and Rizzlo was murdered here Charles I was crowned and Charles I dward held a short but splendid court The house was rebuilt by Charles II and the palace is still used for state purposes. Here the Lord High Commissioner to the Here the Lord High Commissioner to the and thus obtained estates in Lanarssum Church of Scotland has his headquarters and here the Scotlish representative peers an elected. Of interest are the abbey rules and the apartments occupied by Mary Until 1830 the Apartments occupied by Mary

of God, the Psalms and Isaiah use the epithet Holy Gradually the spirit was differentiated as an aspect of God's being separable from His wisdom, and recognised as a separate person The New Testament, witnessing to Christ's advent as God's incarnate Son also emphasised the function of the Holy Spirit, described as the the function of the Holy Spirit, accerning as and Spirit of Truth and, especially by S John as the Paraclete or Comforter The early Church belleved that the Holy Spirit proceeded from the Father, the insortion of filloque, "and the Son, in the Nicone creed caused the Great Schism between eastern and western Christen dom

Holytown Town of Lanarkshire It is 189 m from London by the L MS Rly Here are from mines and collieries, also from and steel

works Pop 9976

Holy Week In the Christian year, The ancient name the Great Week survives in the orthodox Eastern Church It is distinct from Passion Week which properly begins on Passion Sunday From the 3rd century on wards abstinence from flesh, wine and public business was enjoined on Christians The Church of England and the Roman Catholic Church hold special services during Holy Week and there is a certain, but decreasing amount of abstinence from pleasure

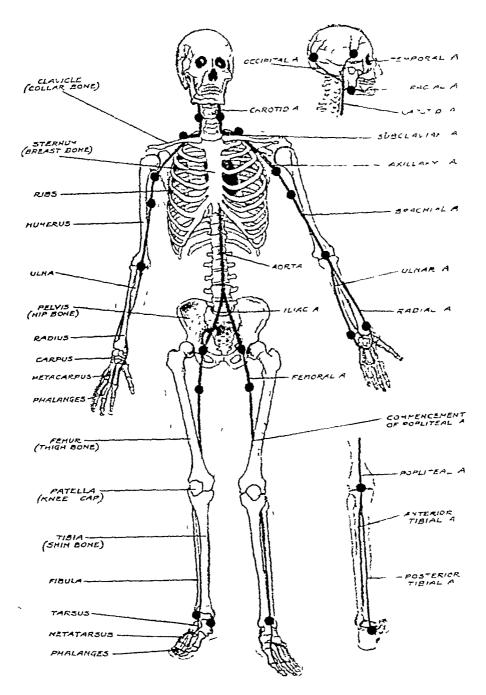
Holywell Market town and urban district of Flintshire It stands on the estuary of the Dee on the LMS Rly It is famous for its well, the waters of which are said to work miracles Called Winifred's Well, it is inside a chapel built in the 15th century Near the station of Holywell Junction are the ruins of a Cistercian Abbey Pop (1931) 3423

Holywood Watering place and urban district of Co Down, N Ircland It is 4 m from Belfast, on Belfast Lough and has the usual seaside attractions for visitors Pop 4000

Homage Service due from a knight or the cotor, the act of fealty itself. This was done by the vassal kneeling before the lord, and saving, 'I become your man for the lands I hold of you and will be faithful to you against all men, saying only the fealty which I owe to my lord the king" As a ceremonial act homage is paid to day to the sovereign by the peers at his coronation, and by bishops on appointment

Homburg Inland watering place of fort on the little River Hohe. It is famed for its waters, which being chall beate and saline, are good for certain complaints. There is a castle here once the residence of the landgraves of Hesse Homburg Homburg was at one time a noted gambling centre A soft felt hat worn by men is named after it Pop 14 000

Home Earl of Scottish title held by the family of Home In 1473 Sir Al xander Home was made a Lord of Parlia ment in 1605 Alexander, the 6th lord was made an earl by James I Cospatrick the 11th earl married the helre s of the Douglas family and thus obtained estates in Lanarkshire religious Douglas (astle, The old sent of the Including Douglas Castle The old seat of the Home is Home Castle in Berwickshire where are the family estates. The earl's cidest son is



THE HUMAN BODY—A FIRST-AID CHART Points at which pressure should be applied to arrest bleeding are shown in black Facus Page 648

had dealings Other Furopean sovereigns signed the treaty later It helped to keep the peace in Europe for some years after the over-throw of Napoleon

Holycross Ruined abbev in Tipperary, Irish Free State It is on the Suir, 4 m from Thurles, and was founded

in 1182

Holyhead Market town scaport and urban district of Anglesca It is on Holy Island on the L MS Rly and is chiefly known as the port of embarkation for Ircland The older harbour is used for fishing Pop (1931) 10 707

Holy Island Name of several islands one is off the coast of Anglesca. It covers 15 sq m, and on it stands Holy head

Another Holy Island is off the coast of Northumberland, also called Lindisfarne Holy Land Name used by Christians especially in the Middle Ages, for Palestine

Holyoake George Jacob English ham April 13, 1817 he became a chartist, and in 1843 was imprisoned for blasphomy. In 1854 he issued Secularism, the Practical Philosophy of the People He wrote also A History of no the People He wrote also I History of the Operation in England, The Limits of Alheism Sixty Years of an Agilator & Life and Bygones Worth Remembering He died in 1906

Holy of Holies Inner chamber of the Jewish tabernacle and It was "the most holy place," ark and mercy seat and was separated by a veil from the outer chamber "the holy place"

Holy Orders Term denoting the status or degree of persons ad mitted to the Christian ministry by the laying on of hands of a bishop lawfully ordained. The Anglican Church recognises three grades bishops priests and deacons. In the Roman Catholic Church the major or sacred orders included also subdeacons.

Holy Places Localities in and near Jerusalem associated with Christ's life They include the Holy sepulchre Gethsemane Olivet, Bethlehem and other sacred sites. The Pope entrusted their custody to the Franciscans in 1230 and later was complicated by the fact that the Turks were in possession Difficulties over the custody of the Holy Places between France and Russia representing western and eastern Christianity helped to bring about the Crimean War

Holyrood Royal palace in Edinburgh founded in 1128 by King David I, and was so named because it possessed a piece of the true cross It belonged to the Augustinian Canons and was destroyed in the 16th century Near the abbey James IV built a palace and this was a residence of the Scottish kings

Here Mary was married to Darnley and Rizzio was murdered, here Charles I was crowned and Charles I dward held a short but splendid court. The house was rebuilt by Charles II and the palace is still used for State purposes Here the Ford High Commissioner to the And the palace is the discount stoner to the Herr the Tord High Commissioner to the Church of Scotland has his headquarters and her the Scotlin representative peers are control of interest as the abby ruins and the apartments occupied by Mary Until 1850 the abby was a place of sanctuary Holy Spirit Third person of the Trialty Holy Spirit Gen. I mentions the Spirit

of God, the Psalms and Isaiah use the opithet Holy Gradually the spirit was differentiated as an aspect of God's being separable from His wisdom, and recognised as a separate person The New Testament, witnessing to Christ's advent as God's incarnate Son, also emphasised the function of the Holy Spirit, described as the Spirit of Truth and, especially by S John, as the Paraclete or Comforter The early Church the Paraciety of Commorter Inc early Charles believed that the Holy Spirit proceeded from the Father the insortion of filiague, "and the Son" in the Nicene creed caused the Great Schism between eastern and western Christen dom

Holytown Town of Lanarkshire It is 11 m from Glasgow, and 389 m from London by the LMS Rly Here are iron mines and collieries also iron and steel works Pop 9976

Holy Week In the Christian year, The ancient name the Great Week below Faster the orthodox Eastern Church It is distinct from Passion Week which properly begins on Passion Sunday From the 3rd century on wards abstinence from flesh wine and public business was enjoined on Christians The Church of England and the Roman Catholic Church hold special services during Holy Week and there is a certain, but decreasing, amount of abstinence from pleasure

Holywell Market town and urban district cstuary of the Dec on the L MS Rly It is famous for its well the waters of which are said to work miracles Called Winifred's Well It is inside a chapel built in the 15th century Near the station of Holywell Junction are the ruins of a Cistercian Abbey Pop (1931) 3423

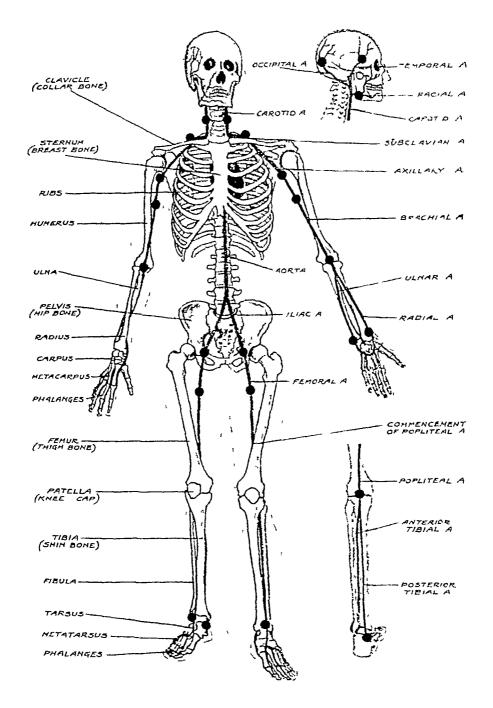
Holywood Watering place and urban district of Co Down, N Ireland It is 4 m from Belfast, on Belfast Lough and has the usual seaside attractions for visitors Pop 4000

Homage Service due from a knight or other varsal to his lord and, therefore the act of fealty itself. This was done by the vassal kneeling before the lord, and saving, 'I become your man for the lands I hold of you and will be faithful to you against all men, saving only the fealty which I owe to my lord the king." As a ceremonial act homage is paid to day to the sovereign by the piers, at his coronation, and by bishops on appointment

Homburg Inland watering place of Germany, 9 m from Frank fort on the little River Hohe It is famed for its waters which being chall beats and saline, are good for certain complaints. There is a castle here, once the residence of the landgraves of Hesse Homburg Homburg was at one time a noted gambling centre. A soft felt hat worn by men is named after it. Pop 14,000

Home Earl of Scottish title held by the family of Home In 1473 Sir Alexander Home was made a Lord of Parilla ment, in 1605 Alexander, the 6th lord, was made an earl by James I Cospatrick the 11th carl married the heire s of the Douglas family and thus obtained estates in Lanarkshire including Doughas Castle The old seat of the Homes is Home Castle in Berwickshire where are the family estates. The earl s eldest son is called Lord Dun lass. called Lord Dunglage

Home Counties Term applied to the counties of Kent, Surroy, Middlesex, Berkshire, Buckingham



THE HUMAN BODY—A FIRST-AID CHART
Points at which pressure should be applied to arrest bleeding are shown in black

NSE

the metropolis

Home Office Department of the British Government Its head is a Secretary of State, and he ranks as the senior secretary On this account he is in special touch with the sovereign, and must be in attendance when a possible heir to the throne is born Through him the sovereign issues proclamations and pardons The office was created in 1782 At one time all the administration of the country was looked after by the Home Office, but as other departments were created its sphere of activity was con tracted, at the same time, however, new duties were imposed upon it. This department is responsible for the administration of justice and the control of the police By its officials, factories and mines are inspected and all matters affecting licensing and burials are supervised are other Prisons and aliens subjects under the control of this department The secretary is assisted by an under-secretary, who is a politician, a permanent under-secretary and a large staff of civil servants The building is in Whitehall, London, S W

Homer Greek poet Little is known of his life, indeed, some think that he never existed, being merely a legendary figure to whom poems written by a number of singers were attributed. The better opinion is, however, that he actually lived between 1200 and 850 BC Seven cities claimed to be his and 850 BC Seven cities claimed to be his birthplace Chios, Smyrna, Rhodes, Argos, Athens, Colophon and Salamis in Cyprus He is believed to have been blind and to have

travelled about singing his poems

Homer wrote two of the world's greatest
epics One called the *Haad* describes events in the concluding weeks of the Siege of Trov by the Greeks The other called the Odyssey describes the wanderings of Ulysses (Odysseus) after the fall of that city They are written in the Ionic dialect, and each is divided into 24 books. There are many English translations of both poems, notable ones being by Andrew Lang, S H Butcher and Walter Leaf, and older ones by Chapman and Pope The authorship of the poems is the subject of much literature, including writings by W E Gladstone

Homer Breed of domestic pigeon, used for long-distance racing and message carrying Crossing with Antwerp message carrying carriers produced show homers, whose crossing with working homers produced exhibition

Home Rule Name given to the move-ment for granting Ireland a measure of self-government. It began about 1870 and was from the first a constitutional, not a revolutionary, one About that date members pledged to secure some measure of self government were sent to Parliament by the Irish constituencies and soon these formed

the Irish constituencies and soon these formed a distinct party, some 80 strong Called Nationalists they were led in turn by Isaac Butt, C S Parnell and J Redmond In 1885 Gladstone decided to grant home rule to Ireland and in 1886, in spite of the defection from his party of an influential group called Liberal Unionists, he introduced the first Home Rule Bill This provided Ireland with a parliament of two houses, but it was defeated in the House of Commons In 1893, Gladstone, again in office, introduced the

shire, Hertfordshire and Essex They are so its parliament, but left 80 Irish members at called because they are the counties nearest to Westminster This bill passed the Commons, but was defeated in the House of Lords Its defeat was due in part to the vigorous resistance

offered to it by the Ulstermen

The third Home Rule Bill was introduced by the Liberal ministry under H H Asquith in 1912 Twice it was rejected by the House of Lords, but, under the terms of the Parliament Act, it became law in Sept., 1914, although serious opposition was offered to it in Ulster By then, however, the Great War had begun, so its operation was postponed Before more could be done the position had been entirely changed by the rise of the Sinn Fein Party, and the disappearance of the bulk of the Nationalists from Parliament in 1918 A settle ment was made in 1921, by which the Irish Free State was formed as a self governing dominion of the British Empire, and Northern Ireland remained part of the United Kingdom

Homicide The taking of human life it may be justifiable, when done under State sanction, excusable, when due to accident or in self defence, or felonious, whether murder, manslaughter or suicide

Homildon Hill One of the hills of the Cheviot range, near Wooler Here on Sept 14, 1402, a fight took place between the English and the Scots The Scots under the Earl of Douglas were returning from an invasion of England when they were met by an army led by the Percies The fight was decided by the skill of the English archers who killed some hundreds of Scots as they were moving down the hill

Homily Familiar religious address expounding a scriptural passage The early Christians continued this practice of the Jewish synagogues as when S Paul "talked" throughout the night at Troas (Acta xxii) Two books of homilies, 12 and 21, published in 1547 and 1563, are mentioned in the 36th article of religion in the Book of Common Prayer

The branch of theological practice which concerns the method of preparing and deliver-ing sermons and other religious discourses is called homileties It forms part of the normal training of students for the ministry in all

Christian churches

Hominy Malze that is hulled and crushed to make meal It is used for porridge, puddings and in other ways

Homoeopathy System of medicine based upon the principle that like cures like (similia similibus It was introduced in 1796 рÀ Samuel Hahnemann, a German physician In homoeopathy minute quantities of a drug are administered to produce symptoms similar to those of a disease Many of the remedies have been adopted by allopaths, such as aconite in inflammatory complaints, and homoeopathy has had a strong influence on ordinary practice in stimulating the study of the physiological action of drugs

There is a homocopathic hospital in London, and societies for the promotion of homocopathic practice The hospital, founded in 1849, is in

Great Ormond St , London, W C

Homology Term in biology referring to the common origin of organs or parts of a plant or animal organism. Thus Gladstone, again in office, introduced the the arm of a man, the wing of a bird, and the second Home Rule Bill This differed in some foreleg of a dog are homologous structures, respects from the earlier one, it gave Ireland

Homonym Word having the same sound as another but a different meaning Examples are, hair and hare break and brale

Honan Province of China In the centre of the country, it is divided into two parts by the Yellow River It covers 68,000 sq m The soil is fertile, especially in the south In the north are coal mines Kalleng is the capital

Honduras Republic of Central America It lies between the Caribbean Sea and the Pacific Ocean and has Nicaragna to the south and Guatemala to the north west. There are many mountains, some of considerable height and a number of rivers Tegucigalpa is the capital The ports are Puerto Cortez Omoa, Trujillo and Puerto Castilla on the cast or Atlantic side and Amapala on the Plecific side There were in 1932 1,119 miles of railway and some good roads The area is 44 275 sq. m. Pop. (1930) 859,761 Hongurus grows bananas. coffee. coconnuts

18 42 278 8q in 170p (1939) 859,701
Hondurus grows bananas, coffee, coconnuts tobacco and other tropical products There is some mining and a few manufacturing in dustries The country became an independent republic in 1821 The government is in the hands of a president elected for four years and a council of ministers who are responsible to a congress of 43 deputies In religion the people are chiefly Lonnan Catholics The gold lemptra (~50 cents US) became the monetary unit in 1931 The metric system of weights and measures is used

Honduras British Colony of Central Honduras America it has a coast line on the Caribbean Sea and covers 8000 sq. m. The capital is Belize which is also the name of the chief river. The country produces mahogany and other timbers, coffee, bananas and other tropical fruits. A crown colony it is under a governor who is assisted by an executive council and a legislative one. The unit of currency is the dollar and the chief bank is the Hoyal leant of Canada In Sept. 1931 great damage was done by a hurricane. Pop. (1931) 51 347

Hone William English author Born in Bath June 3 1780, he failed as a London bookseller but soon made a name by his writims especially some political satired I or a parody on the Prayer Book he was proceduled in 1817 but the only result was to imcrease his popularity and the public subscribed £3000 for him. After a period in prison for dibt he started a collec house in London but failed again. Hone became converted to Christianity and appeared as a preacher. He died at Tottenham Nov. 6 1842.

In 1817. Hone started. The Reformist started and he resteement her least and he resteement her least and the resteement her least and the resteement her least and the resteement her least and he resteement her least and he resteement her least and her resteement her resteement her least and her resteement her resteement

In 1817 Hone started The Reformatis a Legisler and he vrote many books but to day his be t remembered by his Leeryday Book and his Table Book both full of strange and light retire information.

interesting information.

Honesty Annual or blennial cruciferous of Central and W. Scia it has toothed heart slaped have and stems bearing flowers which are usually purple but sometimes white I grows in Freil h crucina and the silvery latitions of the fipened seed pods are useful winer decontions. The per unial form has smaller flowers and seed pods.

Honey Sweets b tance prepared by bees industries including swear refining and rope for ere and store it in honoycombs where it known and Shou and Shaiking Corporation Poper States food for the young Rees are kept (civil) 840 t73 (Chinese) 821 101 (1931) to the lones they produce and the combs are taken from the hire at suits the times.

Honey consists mainly of sugar in the form of levulose and dextrose. The best, called virgin honey, is tallen from the hive before the bees swarm. Other forms are clover honey and heather honey. Honey is imported from California. Now Zealand and other countries. In medicine it is used as a layative.

In medicine it is used as a layative
The honeycomb is a mass of heragonal
cells of wax in which the hive bees store their
honey and pollon as well as the young brood
In modern beekeeping the use of wax founda
tions and the wooden frame or section for the
comb renders easier the handling of the bees
and gives increased honey production

and gives increased honor production Honeyberry Fruit of the nettile tree to severe and ripons in winter A native of the countries around the Mediterranean Sea, it belongs to the natural order Unicaccae.

Honey Dew Sticky sugary dew-like exudation from leaves and stems of various plants especially in warm dry weather It may exude from punctures made in the plants by plant lice and scale insects or appear as a natural secretion exuded through water pores or broken tissues Anta feed upon it gardenors syringe it away It sometimes drops in showers of manua

Honey Eater Family of slender billed the sun bird The brush like tips of their long tongues extract insects and nectur from flowers Many are handsomely plumaged mostly in greens and yellows and in size they are about equal to the thrush They are found in Australasia and the New Zealand tul, or parson bird is a favourite cage bird locally

Honeysuckle Genus of creet or ellmb berry order (Lomicera) They are found in warm and temperate parts of the northern hemisphere and the flowers give out a fragrant odour The plant is found wild but it will grow in any garden provided the soil is moderately dry, but a shady position is best

a slindy position is best
Honfleur Scaport of Normandy, France
Honfleur Reaport of Normandy, France
It stands on the estuary of
the Scine, opposite Havre There is a small
harbour Tho chief buildings are the pilgrim
chapel of Notre Dame de Grace and the
church of S Catherine Honfleur was once an
important port and was taken by Henry V
in 1415 Pop 8700

Hong Kong British possession in island at the mouth of the Canton River about 90 m from Canton a piece of land on the main land called Kowloon and an area around that settlement Properly speaking Hong Kong is the island only but the name is used for the colony as a whole The island covers 32 sq m and the colony 390 The island has a magnificant herbour which is a free pact and one of the greatest trading centres in the least. It is also a military and avail station The capital, Victoria structhes along the south side of the harbour Hong Kong was handed over to Great British in 1842 and Koveloon in 1860. The extension became British in 1893. The extension became British in 1893. The covernor is assisted by an exception and a legislative council. The colony has a university and extension became British in 1898. The foreign sind structures including for air refuln, and rope miking It is the headquirters of the Hong Kong and Shanghai Banking Corporation Pop (civil) 840 173. (Chinese) 221 101 (1931)

15 m from Excter and 155 from London on was given to it as a training ground and here, the S Riv The parish church has a 15th in City Rd, London E.C., are its headquarters century screen. Lace has been made here for called Armoury House. It consists of infantry 300 years There is an agricultural trade and beer is brewed The town has a Fair dating lack to 1221 Pop (1981) 3008

Honley (WR) Near Haddersfield it is 185 m from London by the L N E Riv Woollen Pop (1931) 4611 goods are manufactured

Honolulu City and scaport, also, since Honolulu 1820, the capital of the Hawnian Islands It stands on Oahn Island, in t is built on American lines It is lighted by Acetricity and has electric tramways. The place has a good harbour and does a con siderable shipping trade Pop (1930) 137,582

FIONORIUS Name of four Popes Honorius I was Pope from 625 to 638, and Honorius II from 1124 to 1130 Honorius III, Pope from 1216 to 1227, had a good deal to do with the foundation of the Franciscan and Dominican orders Honorius IV was Pope from 1285 to 1287

MONOTIUS Roman emperor. He was a son of Theodosius the Great and in 305 was made Emperor of the West, his elder brother, Arcadius ruling the East During his reign the barbarians invaded the empire and in 410 Alaric, King of the Visigoths captured and looted Rome. The Roman soldiers were called away from Britain and other possessions were also lost. The emperor whose full name was Honorius Flavius, could or would do nothing to arrest this decay He died at Ravenna Aug 27, 423

Honour Distinction of any kind One kind of honour is a title or distinction bestowed by the King, eq., Companion of Honour (CH) Other honours are fellow-ships of learned societies honorary degrees at the universities and the freedom of cities

The bestowal of hereditary titles in Great Britain was in 1922 the subject of inquiry by a royal commission As a result a permanent committee was set up to examine and report upon the claims of those recommended by the Prime Minister for any dignity or honour on account of political service before their names

Honour In feudal times an estate of two or more manors held by one lord. Each manor retained its separate organisation, but one court baron served for all of the greatest honours in England were those of Clare and Richmond

Honourable Britain it is borne by the younger sons of earls and by all the sons and daughters of viscounts and barons Judges of the high court and the sons of life peers are also honourables The word is usually abbreviated in writing to Hon In Australia, Canada and New Zealand all members of the legislature bear the title, as do the judges The higher title of right honourable is given

the migner title of right honouriside is given to earls, viscounts and barons, to members of the Privy Council, to the lords justices and lords of appeal and to the lord mayors of London and York and the lord provosts of Edinburgh and Glasgow The title of most

Edinburgh and Glasgow The title of most honourable is used for marquesses

Honourable Artillery Co.

Territorial regiment of the British Army It dates from 1537 and was formed to enable Londoners to practise with cross-bows and hand guns In 1641 the ground in Finsbury

a clerk in the War Office, but later took to fournable. In 1865 he was made editor of Fun, and he died Nov 20, 1874

HOOd Viscount. English sallor The son of a clergyman, Samuel Hood was born in Dorset, Dec 12, 1721, and entered the navy in 1741 He served in the var of 1756-63 and from 1767-1771 was commander in-chief

ρĺ

and artillery and forms part of the Royal Regiment of Artillery The regiment did solendid service in the Great War In 1638 an Ancient and Honourable Artallery Company which still exists was founded at Boston U.S.A

Fionthorst Gerard van Dutch painter. Porn at Utrecht, Nov 4 1590, he was a pupil of Bloemert but was influenced greatly by the realism of Carvaggio His paintings cover a variety of subjects such as sarred and profane history, genre, and especially night scenes, nence he is sometimes called Gherardo della Notte in later life he specialised in portraiture. His masterpiece "Christ before Pilue" is in the National Gallery London, and specimens of his work are in most large collections. He died in Utracht in most large collections He died in Utrecht, April 27, 1656

Hooch Pieter de Dutch painter Born at Rotterdam in 1629 he attained little contemporary fame. He has left about 300 canvases all of which displar great art and finish. He was essentially a painter of interiors delighting in the subtle variations of light diffused through windows and doors He died about 1683

Battle cruiser Successor to several earlier vessels of this name, she is Hood 860 ft long and displaces 41,200 tons car les eight 15 in guns and has a speed of 31 knots She was finished in 1919

Flexible covering for the head Hood was much worn in Enrland in the Middle Ages, especially by women, children and priests Very often it was part of the cloak as in the case of little Red Fiding Hood. The use of the hood by monks led to its use at the universities Each university degree. Hood

has a distinctive colour for its hood. For instance, at Oxford the MA wears a hood lined with crunson silk, and the BA one lined with white fur

Hood Thomas English poet and humorist Born in London, May 23, 1799, the son of a bookseller, he became a clerk, then an engraver In 1821 he joined the staff of the London Magazine In 1826 and 1827 he published Whims and Odditics, and then came National Tales He was editor of the Gem, and from 1830 to 1839 issued vearly a Comic Annual From 1835 40 he lived abroad In 1840, after paying his creditors in full, he returned to become adjusted the National Tales. returned to become editor of the New Monthly Magazine His last work was as editor of Hood's Monthly Magazine. He died in London,

Hood's work is characterised by its unique combination of pathos and humour, as in Faithless Nelly Gray and Miss Kilmensegy, and he is specially remembered for his Song of the Shirt The Bridge of Sighs and Fugene Aram He wrote Up the Rhine and a novel Tylney Hall

Hood Tom English humorist A son of Thomas Hood, he was born at Wanstead, Jan 19, 1835, and was educated at Pembroke College, Oxford He was for a time a clerk in the War Office, but later took to

in N America After a second spell of service | Corpus Christi Colege Oxford, and became a in American waters he was made commander in-chief in the Mediterranean and took part living in Buckinghamshire, and in 1585 was in the blockade of Toulon He was an MP for a few years, defeating Charles J Fox at the low to become Vicar of Boscombe in Westminster election of 1784 In 1782 he was Wiltshire His last living was at Bishopbourne, in American waters no was made communder in-chief in the Mediterranean and took part in the blockade of Toulon He was an MP for a few years, defeating Charles J Fox at the Westminster election of 1784 In 1782 he was made an Irish baron, and in 1796 a viscount. In Jan. 27, 1816, he died The title is still held by his descendants

Hood's brother Alexander saw much service in the navy and was made Viscount Bridport in 1800 A kinsman Samuel Hood, entered the navy in 1776, was at the Battle of the Nile and rose to high command He was made a baronet

and died Dec 24 1814

Horace Lambert Alexander Hood, a son of the 4th Viscount Hood became head of the naval college at Osborne in 1910 In 1914 he look command of a ship and in the Battle of Jutland he went down in the Invincible when in command of a squadron of battle cruisers

May 31, 1916

Hooge Village of Belgium It is 3 m from Ypres and around it there was much fighting during the Great War In May 1915 the Germans delivered here one of their carliest gas attacks and here on July 30 they used liquid fire from flame throwers for the first time. The village or what remained of it, was retaken by the British on July 31, 1917, and the Germans driven away in Sept. 1918

Hooge has been rebuilt and in it is a memorial to the Gloucestershire Regiment.

Hoogly Branch of the Ganges One of the branches by which that river flows into the sea in the Bay of Bengal it is Calcutta stands on it. Owing to 120 m long Calcutta stands on it. Owingulcksands the navigation is dangerous 1931 a tunnel under the river was opened

Hoogly is also the name of a town of Bengal, founded in 1537 by the Portuguese 30 000

Theodore Edward English writer Hook Born in London Sept. 22, 1788, a son of James Hook the composer he was educated at Harrow His extraordinary gifts as an improviser soon won for him a great reputation In 1820 he started a Tory paper called John Bull and wrote a number of novels including Marrell and Jack Bray but is better known as the author of innumerable practical jokes He died at Fulham Aug 24 1841 Hookah Tohacco pipo used in India Charles and other Eastern

countries It consists of a tobacco bowl from which the smoke pas es through into a water bottle of glass percelain or metal and thence by a long flexible tube to the mouth. In this

Hooker Sir Joseph Dalton F nglish FUGORET Lotani t Born at Halesworth Suffolk June 30 1817 ht was the son of Sir William Jack on Hooler who was Profe or of Botany at Glasgow and then Director of of Botany at Glasgow and then Director of the Botanle Gardens at Kew He studied medicine in Glasgow but never practised in tend he went with Sir James Ross to the Antarctic in 1820 and in 1815 as botanist to the Geolegical Survey did much research work in the Himalagus In 1855 he was made in the Himalagus In 1855 he was made in an director at Kew and in 1865 he receded his f ther as director. He retired in 1855 and did 1966 1911 Hooker was the results of the Royal Society 1872.77 and the given the OM in 1997. He wrote books on the results of the languages and a valuable the results of his curneys and a valuable ter it Liant rin

Hooker

Kont where he died Nov 24, 1600
Hooker is famous as the author of a unique
Treatise on the Laws of Ecclesiastical Polity
which sets out the fundamental principles of Protestantism and especially of the Church of England Equally remarkable for its stately prose and for its irresistible logic, it won for its author the epithet "judicious" Izaak Walton wrote a Life of Hooker

Hook of Holland Steamer and rail way terminus of the Netherlands It is 17 m from Rotterdam and stands at the mouth of the channel called

the New Waterway There is a regular steamer service with Harwich, 120 m away

Hookworm Parasite causing anky lostomiasis in man It is common in many tropical countries where the larva entering the system by piercing the skin commonly the foot matures in the small intestine Ova volded in the exercta infect the soil Lifective treatment can only be carried out on a large scale, and includes proper sanitation and the use of vermifuges

Hooley Ernest Terah English financier Born in Nottingham, Feb 5, 1859, he became a stockbroker s clerk, then a stock broker, and was concerned in floating companies at a time when this kind of business was in its infancy He placed some very large under takings on the market, and for a time was remarkably successful but a sensational crash came with his bankruptcy in 1898

Hooper John English prelate Born in Somerset about 1495 he went to Oxford and became a Cistercian monk Later he joined the religious reformers and in 1539 me joined the religious reformers and in 1539 went to Switzerland Returning about the time of the accession of Edward VI, he was made chaplain to the Protector, the Duke of Somerset and in 1550 was elected Bishop of Gloucester He held also the bishopric of Worcester from 1552 until 1553, when Mary had him put into prison On Feb 9, 1555, having been condemned for heresy, he was burned at Gloucester burned at Gloucester

Hoopoe Genus of birds allied to the Hoopoe hornbills (Upupa). It visits Europe and Siberia in summer and winters in Africa and India Occasionally it breeds in England Its golden buff head and neck bear a semi-circular crest of creet plumes with white bordered black tips

Hoover Herbert Clark. American president. Born, Aug 10 1874, at West Branch, Iown the son of a Quaker, he was educated at the Leland Stanford University He became an engineer and was for a Fits tine engaged in mining work in Australia China and elsewhere. He attained a high standing in his profession and became a public figure during the war period in 1914 he was in charge of the American relief work in Europe later, he organised relief measures on a much greater scale in the countries threatened with famine This work occupied him until with famine This work occupied him until 1921 when he was a member of the Supreme Feonomic Council A Republican, Hoover was his curneys and a valuable serretary of Commerce 1921 25 and in 1923 71 rr was elected President defeating the Democrat, Richard Fnelish divine Born 41 Smith In July, 1931, he launched his its March 1554 he was sent to reheme for a years moratorium for all international war debts. He stood for re-election, teristic flavour to beer

national war debts. He stood for re-election as Republican candidate in 1932, but was defeated by Franklin D Roosevelt.

Hope Anthony Pen-name of the English novelist, Sir Anthony Hope Hawkins A son of Rev E C Hawkins, he was born in London, Feb 9 1863, and was educated at Mariborough and Balliol College, Oxford the became a hardstor but devoted his time to

at Mariborough and Balliol College, Oxford He became a barrister, but devoted his time to writing In 1894 he made his name with The Prisoncr of Zenda, a novel of the romantic type, which called forth many imitations The sequel, Rupert of Hentzau, and many others in the same vein followed, these including Quisantè, Tristram of Blent, Sophy of Kravonia, The Intrusions of Peypy and Captain Dieppe. Hope secured another success with his Dolly Dialogues full of delicate wit. He also wrote plays, among them The Adrentures also wrote plays, among them The Adventures of Lady Ursula and Pilkerton's Peerage. In 1918 he was knighted.

British soldier Sir John Aug 17, 1765, he was a son of the 2nd Earl of Hopetoun In 1790 he entered the army and about 1795 embarked on a long career of active service He was in the Nether-2nd Earl of Hopetoun lands and Egypt with Sir Ralph Abercromble and in Sweden and Portugal with Sir John Moore, taking command at Corunna when his leader was killed He commanded a division in the Walcheren expedition and in 1813 went to Spain as chief lieutenant to Wellington There he led a division until wounded and made prisoner in April, 1814 In 1815 Hope was made a baron and in 1816 he became Earl of Hopetoun. He died Aug 27, 1823

On the River Town of Flintshire Hope by the L M S Rly, and is 188 m. from London Offa's Dyke passes near and Roman remains have been unearthed Pop 4800

Hopetoun Earl of Scottish title now merged in that of Marquess of Linlithgow Thomas Hope a lawyer, was made a baronet in 1628 and one of his des-cendants, Charles, was made an earl in 1703, taking his title from his residence, Hopetoun House, Linlithgowshire James, the 3rd earl, inherited the estates of the Marquess of Annandale He was succeeded in 1816 by his half-brother, Sir John Hope (qv) In 1802 the 7th earl was made Marquess of Linlithgow Hopetoun House stands near the Forth

Hopper Funnel shaped wooden or metal vessel, through which loose material is discharged into a receptacle The The lower aperture is often provided with a trap door

The term is applied also to the vat used in making an infusion of hops in a brewery

Several insects are called hoppers these is the hop flea which is very destructive to hops, another is the larva of the cheese fly

Hoppner John. English portrait Born in Whitechapel, London, April 4, 1758, of German parentage, he studied at the Royal Academy Schools and he studied at the Royal Academy Schools and became a fashionable portrait painter His portraits of women and children have a certain charm The "Countess of Oxford" and "William Smith" are good examples of his work in the National Gallery, London, but his best works are in private collections. In 1792 name for Sinal (Ex iii ne was elected A.R.A. and in 1795 R.A. He died in London, Jan 23 1810

HOPS Cone-like catkins of female flowers of the Law, and Elijah Hops the hop plant Humulus lupulus They are used chiefly for giving the characterist where in the temperate zones

teristic flavour to beer. The plant is a peren-nial climbing herb with rough twining stems bearing either male flowers in drooping clusters or temale flowers in green scaly cones After flowering the female catkins, or hops, increase in size and develop at the bases of the scale. small yellowish glands which contain the special principle of hops Hops are used to some extent in medicine The plant was introduced into England from Flanders in 1525

In England hops are grown chiefly in Kent, but also in the counties of Hereford, Sussex, Worcester and Hampshire A considerable outlay and much skilled labour are necessary before the hops are ready for picking. The chief English market is the Hop Exenange in Southwark London, S.E.

Hor Mountain near Edom's border whereon associated since Josephus with Jebel Harun a truncated cone 4580 ft. high, between the Dead Sea and the Gulf of Akabah

Horace Latin poet Quintus born at Horatins Venusia, Dec 8, 65 BC, the son of a freedman who had acquired some wealth He was educated at Rome and in Athens, and fought on the side of Brutus in the war that followed the murder of Caesar He then entered the public service About 38 BC Virgil introduced him to Maecenas, who gave him a farm on the Sabine Hills and there, or in Rome, the rest of his days were passed in writing He died in Rome,

Nov 27, 8 B C
The first works of Horace were two volumes of Satures. These were followed by some Epodes and then came, in three books, his immortal Odes, the most perfect of their kind, vielding almost as many quotations as Hamlet. A fourth book followed. He also wrote some Epistles and the Carmen Seculare. There are many English translations of his works, aspecially of the Odes. especially of the Odes

Horae Greek word meaning hours and used for the goddesses of the seasons. The daughters of Zeus and Themis, they were responsible for controlling the weather and were represented in art as beautiful maidens and temples in their honour were built at Athens and elsewhere

Horatii Name given to three Roman They were triplets and were selected to fight three brothers from Alba The fight took place and all were killed except one of the Horatii On his return, his sister, whose lover had been among the slain, cursed him and he killed her

Horatius Cooles, another Roman hero, belonged to this family He defended, with two others, the bridge across the Tiber when the city was attacked by Lars Porsena, as related in Macaulay's Lays of Angient Rome Horder Lord, KCVO, MD English he received his medical training at S. Rostho.

he received his medical training at S Bartholomew's Hospital London Washington lomew's Hospital, London He joined the staff there and soon became known as a consultant, his patients including members of the royal family. He served at the front in the Great War was knighted in 1918, made a baronet in 1923 and raised to peerage in 1933 as Lord Horder of Ashford

Horeb In the Pentateuch an alternative name for Sinai (Ex iii) It was the scene of Moses' experience of the burning bush, the giving of the Law, and Elijah's vision

Horehound Name of two plants found in Great Britain and clse-

The white

down and bears whorls of white flowers in the summer The black herehound has also downv and wrinkled leaves but its flowers are purple The white herehound has an aromatic flavour and a decoction from its leaves is used as a medicine chiefly as a cure for coughs

Horley Market town of Surrey It is on the Mole, 25 m from London and 5 m from Reignte, on the S Rlv Pop 6100

Hormones "Chemical messengers," organs of internal sceretion, such as the thyroid and pituitary glands and passed on into the blood circulation. These substances stimulate the metabolism of other organs generally by increasing secretion. The activity of the thyroid has an affect upon physical and mental growth, and the pituitary upon growth in stature

Horn Hard, pointed sheath formed over a skull of oxen, sheep and antelopes In the case of the rhinoceros the horn consists of an acclutinated mass of horny fibres derived from the skin. The antiers of deer are not true horns, but bony outgrowths of the skull Horn is used for making handles of knives

and forks sticks and umbrellas, also combs buttons, etc. It is exported from India South Africa and South America

Formerly many implements made of horn were called horn. These included drinking horns hunting horns and powder horns later came ink horns. There exist some fine old specimens of these horns

Horn Cape of South America On Tierra del Fuego it is the most southerly part of the continent. It belongs to Chile part of the continent. It belongs to Chile and is about 1400 ft high. It was seen by Drake in 1578, but was named by a Dutch safler who called it Hoorn from his birthplace

Horn Brass musical wind instrument At military and hunting purposes only the wald horn survivin, as an orchestral instrument About 1835 this was super-eded by the valve horn in I which is now univer-ally employed Its practical compass is about three octaves.

The player blows into a conical coiled tube.

twelve feet long producing tenor tone quality. Pistons effect a change of key. Music for valve. horns in I is written a perfect fifth higher

than actually sounded

Hornbeam Tree of the birch order indicenous to Furope and W Asia and grows in Great Britain Its dull doubly toothed in Great Britain. Its dull doubly toothed leaves hairs underneath and winged fruit distinguish it from the beech. Its heavy close graited wood is difficult to split and serves for maliets handles lasts bench forces and cog wheels. In Great Britain it sometimes grows to a height of 50 ft. grows to a height of 70 ft

Hornbill lamily of fruit-eating birds allied to the hoopoes They inhabit Africa India and Malaya and have horn lil c helmets hollow or solid surmount ng Then are ground hornbills Lings billa trumpeters and vedge talled forms They mus be as much as 15 in in length

Hornblende Rock forming mineral of the amphibole group. It can be a first the allester of magne in hime from e d atamina a id is found as grains or crystal in specifies dio its and schists in many parts at the well. Hornblende is black or greeni h

horehound has stoms and leaves covered with black in colour and opaque except in the translucent variety, pargasite

> Hornbook Tablet used for teaching children especially in Lung land from about 1130 till about the middle of the 18th century Usually bearing the alpha bet in capital and small letters, the nine numerals and the Lord's Prayer, it was covered with transparent horn and had a handle

> Horncastle Market town and urban district of Lincolnshire It is 21 m from Lincoln on the LMS Rly The town is an agricultural centre and is famous for its horse fair held every August. Pop (1931) 3496

> Hornchurch Urban district of Essex It is 2 m from Romford, on the L MS Rly The industries include the making of agricultural implements and brew

Pop (1931) 28 417 inσ

Horne Baron British soldier Born in Calthness Feb 19 1861, Henry Sinclair Horne was educated at Harrow and passed into the Royal Artillery As an artillery officer he served in S Africa and in Aug 1914, he went to France in command of a brigade of artillery in 1915 he was given a dirision and in 1916 he took command of an army corps which he led in the Battle of the Somme In 1916 he was appointed to com mand the first arm; which he led throughout the advance of 1918 In 1919 he became Baron Horne of Stirkoke, Calthness The title became extinct when he died Aug 14 1929

Horne Sir Robert Stevenson British poll THORNE ticlan The son of a minister of the Church of Scotland he was born Feb 28, 1871 and educated in Edinburgh and at Glasgow University In 1805 he was made lecturer in philosophy at University College, Bangor, but later became an advocate in Edinburgh In 1917 he was given an administrative position in connection with the transport of troops. He then went to the Admiralty as director of a deposition of the connection with the transport of troops. department and later was made Third Civil Lord In 1918, having been knighted he entered Parliament as Conservative M P for Parliament as Conservative M P the Hillhead division of Glasgow (which he still represented in 1936) and was made Minister of Labour In 1920 he became Minister of Labour In 1920 he became President of the Local Government Board and in 1921 Chancellor of the Exchequer, leaving office when the coalition broke up in 1922 In business he became associated with several rallway banking and other companies

Horner One who sells horns of various Horner's Company, however one of the London livery companies till exists Its hall is in Cannon St, London F C

Hornet British variety of wasp (respa About an inch long and distinguished from the common wasp by its ruddler hue it builds paper; nests chiefly of rotten wood in hollow trees or pendent from outhouse roofs. The hornet is found chiefly in the midland and southern counties of Fngland

Horning Term used in Scots law It is a writt used in cases of debt and is so named because at one time debtors who dld not pay were declared outlaws after three blasts had been blown on a horn at the market cro s in Fdinburgh

Hornsea brhan district and watering for about 16 m from Hull on the coast between Spurn Point and Flamborouch Head on the

LNE RIV covering about 400 acres Pop (1931) 4450

Hornsey Borough of Middlesex. It is the county, and includes the districts of Harringay Crouch End, Muswell Hill and Finsbury Park It became a borough in 1903 In olden times there was a royal park which is mentioned by Shakespeare in Henry VI Pop (1931) 95,524

Horns Reef Reef off the coast of Jut-of Jutland was fought, May 31, 1916 See

JUTLAND

Horology Science dealing with the prin-timepleces Wheel clocks came into use about the 12th century, portable clocks in the 14th, and watches with a coiled spring a century later. The introduction of the pendulum in the 17th century, followed by the first escapement, was an important step and since that time steady progress has been made

Horse Hoofed mammal (equus caballus) of great value to man, especially the white races It is distinguished by having only one toe on each foot, and is seen in shades of red, brown, black, white and piebald Its height is measured in hands

The horse was hunted for food by primitive man, was known to the Egyptians and Assyrians, and by the time it was mentioned in the Bible it had been domesticated. The Arabs showed what it was capable of in speed and beauty, and in these respects Arab horses have never been surpassed. The Roman charlot was drawn by horses and later the horse became an essential part of the knight's equipment. Until the Great War the horse played an important part in warfare

When the roads were bad goods were conveved on pack horses and, when they became better, horses were used to draw coaches and carts over them. In agricultural work horses replaced oxen in many countries, while every gentleman, as a matter of necessity, learned to

ride and made his journeys on horseback.

The invention of the steam engine reduced somewhat the demand for horses, still more the advent of the motor car To-day, even on farms, much of the work formerly done by

horses is done by motor

The finest animal in existence is probably the English thoroughbred racehorse, in which there is an Arab strain For hunting, horses are carefully bred and good specimens fetch high prices For agricultural and draught

high prices For agricultural and draught purposes the chief breeds are the Shire, Clydesdale and Suffolk Punch, and for riding and driving, the Hackney and Cleveland.

In former days horse fairs were held in many centres, those of Ireland being especially famous, and these are not vet extinct, annually in August a great horse show is held in Dublin For breeding horses there are stud farms, while the breeding of racehorses is conducted in special establishments.

Wild horses are still found in Acta The

Wild horses are still found in Asia The mustang of South America is the wild descendant of the domesticated horse The skin, hair and other parts of the horse are com-mercially valuable. There are restrictions on the export of old horses, and homes of rest are provided for them

Horse Chestnut of the soapwort order (Aesculus) They are natives of Europe, India and N America. The common A hip-

Near is Hornsea Mere, a lake pocasianum bears pyramidal spikes of showy 400 acres Pop (1931) 4450 | blossoms It grows to a height of 60 ft. The seeds produced much acctone and alcohol during the Great War The Indian form (A indica) furnishes timber It grows to a height of 100 ft

Horse Fly Name loosely indicating two-families annoying to horses (1) The large brownish-black Tabanus bornus, and other blood-sucking species of the gadity family (2) The parasitic vellowish-brown Hippobosca equina or horse tick, which is common in the New Forest, England See Bor Fly

Horse Guards Building in White-the name of a cavalry regiment. The Whitehall structure was built in the 18th century and was at one time the headquarters of the army It is still used for military purposes Behind it is the Horse Guards Parade, where the trooping

of the colours takes place
The Royal Horse Guards is one of the regiments of household cavalry It was formed in 1661 and saw much service in the 18th and 19th centuries also in the Great War It is stationed in London and at Windsor and attends the sovereign on ceremonial occasions.

Horsehair Tail and mane hair of the woven into haircloth and used for the seats of chairs It is also plaited into fishing lines and used in violin bows. The mane and short tail hair serve as a stuffing for furniture, and for brushes.

Horse Latitudes Term used by sailors for regions about 30 deg north and south of the equator There the westerly winds blow towards the pole and the trade winds towards the equator

Horse Leech Two aquatic species of blood-sucking leeches. (1) The Haemopsus sanguisorba is common in Europe and N Africa. It sometimes clings to the pharynx of horses and cattle when drinking from pond or streams. (2) The Aulastoma gulo which is often confused with the leech. With three small teeth it normally feeds on earthworms, snails and other leeches

Horse Mackerel Popular name for several unrelated marine fishes, particularly a spiny-finned genus (Caranx) abounding in almost all tropical and temperate seas. The British C trachurus is also called the scad. Sometimes found in vast shoals, it is split, salted and dried for food.

Horse Power Standard or unit of work used to estimate the power of an engine It is the force required to raise 33 000 lb one foot in one minute equivalent in electrical units to 746 watts The French unit, "force de cheval," equals 736 watts or 9863 horse power

Horse Racing Sport very popular reland, Australia and France and to a lesser extent in other countries It is an old sport and with it the English kings have been associated for some centuries Race horses are specially bred and all are descended from Arab horses imported into England. Eclipse (1769-70) was the greatest racehorse on record and for good horses enormous prices are paid
Racing in England is controlled by the

Jockev Club and the chief centre is Newmarket. Other famous courses are Epsom and Doncaster and there are many more all over the country

Races are held at several parks around London Goodwood are race meetings especially famous as social functions. In Ireland the chief racing racing centres are the Curragh and Leopards town. In France races are held at Auteuil and other places near Paris, and in Australia at Sydney and elsewhere

Training stables are at Newmarket, Epsom, Doncaster and on the Berkshire Downs The five classic races are the Dorby and Oaks at Epsom, the St Leger at Doncaster, the Two Thousand Guineas and the One Thousand Guineas at Nowmarket These are for three year old horses The courses vary from half a mile to two miles or a little more. In most races the horses are handicapped

In addition to flat racing, hurdle or obstacle races are held at various centres. The chief of these is the Grand National. A feature of all horse races is the betting through bookmakers or by means of the totalisator, which has been

made legal in Great Britain

Horseradish Percental herb of the cruciferous order (Coch learla armoracia) Its pungent root serves grated as a condiment with beef and its oil is used as an antiscorbutic. It is propagated by planting pieces of the root in trenches and can be grown in Great Britain

Horse Show Show of horses held in various cities and towns specially to promote the interests of the breed ing industry Prizes are given for the best animals The International Horse Show is held every year at Olympia London but more famous is the one held at Dublin every August Other shows are devoted to the interests of a single breed eg, Clydesdales or Shires

Horsham Market town and urban district of Sussex It is 38 m from London on the S Rly Its centre is called Carlax and here are stocks and the ring once used for bull balting. The town has an

At West Horsham, about 2 m away, are the fine modern buildings of Christ's Hospital

A building material much used in Sussex houses is called Horsham stone

Town of Victoria, Australia Arailway junction it is about Horsham 200 m from Melbourne and is the principal town of a sheep farming area It is on the Wimmers river and has irrigation works Pop 4700

Horthy Nicholas Hungarian leader lamily, Nicholas Horthy do Nagybanya was educated for the navy which he entered about 1881 and rose to command some crulsers during the Great War. He was given command of the Austro Hungarian flect in 1918 and made of the Austro Hungarian next in 1916 and many an admiral During the troubles in Hungary that followed the War he collected a force that drove the Bolshevist Bela Kun and his followers from the country and restored order He was cho en regent in March 1920 and held that position for the next 12 years

Horticulture scientific cultivation of fruit vegetables flowers and shruhs. In England it is fostered by the Royal Hortleultural Society, which holds shows of flowers at its hall in Vincent Square West minster has gardens at Wiley in Surrey and 1 sucs a Journal

Then an horticultural colleges at Swanley in Kert Study y in Warwick-hire, Hipley in Surny, and elewhere

Egyptian falcon headed deity Porhaps originally the totem of Horus a falcon clan, he became a sun god offspring of Osiris and Isls, equivalent to the Greek Apollo He is sometimes represented as a human child the Greek Harpocrates, with finger on lips and seated on a lotus flower

Horwich Urban district of Lancashire It is 5 m from Bolton, on the LMS Rly The industries include railway works, spinning mills, bleaching and dycing works and coal mines Pop (1931) 15,680

Hosanna Cry of adoration recorded in the account of Christ's ontry into Jerusalem (Matthew xxi, 9) and later used in the Christian Church It is also a Jowish liturgical term applied to the Hosanna branches used in the Feast of Tabernacles The seventh day of the Feast of Tabernacles is Hosanna Day

Hosea First of the twelve minor prophets in the Old Testament A son of Beeri, a native of the northern kingdom of Israel, he prophesied under Jerobeam II and his successors The first part of the book he wrote (i iii.) professedly relates a personal experience and compares the nation's attitude towards Jebovop with the total of these gauge. towards Jehovah with that of a faithless spouse The second (iv xlv) exposes and consures Israel's idolatry and immorality Our Lord cited Hosea's statement that God prefers merey to sacrifice (Matthew ix )

Word derived from hose, Hosiery and now used for knitted goods made of wool or partly of wool It covers stockings, vests and other forms of underwear. In England the Nottingham and Ilkeston in Scotland Hawick is a centre Germany, the United States and other countries turn out large quantities of hosiery

Hosiery is made by machinery The first knitting machine or frame, was invented by Rev W Lee of Calverton near Nottingham

Hospice Home of rest and refuge for travellers, maintained by religious houses Such establishments were formed by monks on some Alpine passes for alding pilgrims to and from Home Thut on the Great St Bernard, founded in 982, is famed for its use of trained dogs to search for and rescue travellers overcome by the cold

Hospital Building for the care of the times it was used for almost any charitable institution Some were homes for the agod, such as are still seen in Warwick. Hereford and other cities and towns others were schools

such as Christ's Hospital
The Fry ptians and the Greeks had hospitals in the modern sense but their great development came with Christianity In London Bartholomew a dates from 1123 In the 19th Shart follows duties from 1123. In the large cities and towns. The largest are general hospitals called in some places infirmatica some are devoted to specific diseases. Other hospitals are for children or women or for maternity cases there are also dental hospitals and hospitals for incurables. Other hospitals such as those at Woolwich and Netley are maintained for the use of soldiers and sallors In London the great hospitals all vith medical schools, are the London S Bartholomews, S Thomass Guys Kings College, University College and S George's

In Great Britain the hospitals are supported by voluntary contributions To assist those in London there is the King Edward VII's Hospital Fund and large sums are raised by the Hospital Saturday Fund and the Hospital Sunday Fund

Hospitals have usually an indoor and out-door department. No fees are charged in the majority of cases, although some have started the system of fees for those able to pay

Hospitals for fever and other infectious diseases form a different class and are main-

tained by local authorities

Hospitallers Name given to the S John of Jerusalem It was founded in 1113 to manage a hospital, or hostel, for Christian pilgrims in Jerusalem. Some of its Name given to the members took vows to defend the Holy Sepulchre, and soon it became the great rival of the other military order, the Knights Templars

The order was strong and active during the the order was strong and active during the crusading period, when it made Acre, called thereafter S Jean d'Acre, its headquarters In 1291 the knights made Cyprus their headquarters, and in 1530 they settled in Malta As the Knights of Malta, they ruled over that

island until 1798

Host Wafer consecrated at the Mass in Roman Catholic worship It is made of unleavened bread and after consecration is reverenced as the Blessed Sacrament

Host In pathology a term applied to a plant or animal which is attacked by a parasite. In the case of endoparasites, the a parasite In the case of endoparasites, the tapeworm and liver fluke, for example, there may be an alternation of hosts, the adult stage living in the primary host and the other stages of the life cycle in a secondary host

Hostage Person retained as a pledge for the performance or non-per formance of specific acts. The practice arose in connection with treaties and terms of surrender imposed on the vanquished Rome took the sons of tributary princes as hostages and educated them The last occasion between civilised states when a treaty was thus secured was at Aix-la Chapelle in 1748

Hostel Old name for an inn, surviving in the form of hostelry. It is used to-day for halls in connection with the newer English universities where students reside and also for residential institutions for nurses, social workers and young men and women in business life The Hostel of God, at Clapham, houses

the dying

Hotbed Contrivance used by gardeners as an aid to the cultivation of plants It consists of a heap of fermenting manure or other material, thus utilising the heat of fermentation for forcing plant growth

Hotchkiss Benjamin Berkeley American inventor Born Oct 1, 1826, he was employed in a gun factory when the Civil War was being fought Among other inventions he was responsible for a machine gun called after him, the Hotchkiss It will fire automatically 400 rounds a minute, and is made in light and heavy forms Hotchkiss died March 14, 1885

Hotchpot Term used in English law It means bringing property into a common fund to divide an estate at death A man who has given money to one or two of his children during his lifetime may direct in his will that these sums are brought into associations with the Walpoles Sir Robert

hotchpot, i.e., they are included in the share which those children will receive

Hotel Word used for an inn or boarding.

Hotel house that claims to be of superior character A variant of hostel, it came into use in the 19th century with the advent of railways The hotels in London, New York, Paris and other capitals are large and imposing buildings with every convenience and luxury In Great Britain most hotels sell intoxicating

liquor and must therefore be licensed have restaurants where others than residents can obtain meals Some, called commercial hotels, cater chiefly for business men

In London, to look after hotel interests, there is a paper, The Hotel Review, and an association, the Hotel and Restaurant Proprietors' Asso-

The Hôtel Dieu, a French institution, is a

home for the old or infirm

French and Belgian Hotel de Ville equivalent for town hall, the German word being Rathaus Some date from mediaeval times, as those at Orleans and Antwerp That in Paris is modern

Glazed structure similar to Hothouse Hothouse a greenhouse, but provided with heating apparatus In it may be grown tender plants naturally growing in warmer climates Some plants like the paims require moist heat cacti and other succellents require dry heat, while grapes, peaches, melons, etc, need a more temperate heat

Hotspur Name given to Sir Henry Percy A son of the 1st Earl of Northumberland, he led a revolt against Henry IV and was killed in battle at Shrewsbury in

Primitive people living in South Africa With a Hottentot South negroid strain in them they are also allied in blood to the Bantus and the Bushmen lived at one time in the north of the continent, but were driven south, where they settled Their huts are shaped like beehlyes and they have their own religious rites in which the witch doctor figures They number, perhaps, 60,000, but many of them, known as the Cape Hottentots, are half-breeds

French conjurer Robert Houdin son of a clockmaker, he was born Dec 6, 1805, at Blois, and baptised Jean Eugène Robert, but on his marriage took his wife's name of Houdin. In 1845 he opened a theatre of magic in Paris and there he gave some remarkable performances, as he did later in England and Germany In 1856 the French government sent him to Algiers to counteract the influence of the native sorcerers, which his skill enabled him to do successfully He died at Blois in 1871 Houdin wrote books which have been translated into English as The Secrets of Conjuring and Magic and Card Sharping Exposed

Houdini Henry American entertainer Born in Wisconsin, April 6, 1873, he became a locksmith His extraordinary skill in freeing himself from handcuffs. looks and other impediments soon led him to give exhibitions on the variety stage in London, New York and elsewhere He died Oct. 31, 1926 In 1931, a book, called Houdin's Escapes, explained how some of his feats were performed

Walpole, who was born here, built the enor mous hall Houghton is now the scat of the larl of Rocksavage, but the pictures collected v. Walpole have been sold In the park is the village church, which contains the tombs of Walpole and his famous son, Horace

Houghton Baron English scholar and June 19 1809, Richard Monel ton Milnes was a son of Robert Pemborton Milnes, a Yorkshire landowner While still at Cambridge he dis nandowner while sail at Cambridge he are played distinct talents as a scholar and a wit In 1837 having travelled in Europe he entered Parliament as M P for Pontefract and remained a member until 1863, when he was made a peer. He married Annabel, daughter made a peer He married Annabel, daughter and helress of Baron Crewe and later his only son became Marquess of Crewe Houghton

died Aug 11, 1885 Dicky Milnes, as he was called, was one of the most popular men of the day, a champion of liberal ideas and a friend of Tennyson Carlyle and most of the great literary men of his day He was the Mr Vavasour of Disraeli's novel Tancred and himself wrote several volumes and some graceful verse

Houghton William Stanley English Manchester in 1881 and educated at the local prammar school He entered business life but at the same time served as dramatic critic for The Manchester Guardian Then he began to write plays and his Hindle II akes 1912, a powerful study of Lancashire life made him widely known Others of his plays are The Langas Generation. The Master of the House. Jounger Generation, The Master of the House, Trust the People and The Perfect Cure He died Dec 13, 1913

Houghton-le-Spring Urban district of Durbam II is 6 m from Durbam and is a cantre of the coal and fron industries. Pop (1931) 10 492

Hougoumont Chateau on the battle field of Waterloo With the grounds it was occupied by the British when the French opened the battle It was defended by the Chards and in spite of the British the French fellows. desperato efforts the French falled to take it

Houndsditch Street in the city of London It extended from Bishop-gute to Aldgate At each end is a church dedicated to St Botolph A Jewish centre since the 16th centure it is famous for its second hand clothes shops. The name refers to the fact that the city ditch was here

Hounslow District of Middlesex It is 12 in from London on the 12 in from London on the 12 in from London on the 13 in the Heston and district There are many market gardens Hounslow Heath, now only a fragment of its former size is famous for its t colations with highy vmen

Hour Measure of time equal to sixty minutes, or the twenty fourth part of a day Hours are corried from midnight to the following moon and from moon to the fillowing midnight but in the astronomical country in the country of the co om noon to noon

A book containing players for the different lours I call dia book of hours. Some of the to pan I for royal t commes and worderfully illustrated are tenutial and costly works of art. There are examples in the British

Marcum and other collections

Houri To Mohammedans a black-eyed damsel of fadeless youth health and beauty She is promised in the Koran to the devout Moslom when he enters paradise He may expect the companionship of many such nymphs as well as of his earthly wives.

House Dwelling of a permanent kind Houses were at first very primitive structures. To day they usually contain one or more living rooms for meals and daily life with sleeping rooms on the upper storey or storey. In the western world brick or stone or the unterfals cheaft, used but timber or are the materials chiefly used, but timber, or half timber houses are occasionally seen

The older houses were dark and ill ventilated to day much more attention is given to the supply of light and air Houses are known as halls, villas, cottages, and so on The money paid for the hire of a house is

called rent

A family is known as a house so we have the house of York and the house of Windsor The word is also used for an assembly such as The word is also used for an assembly such as the House of Commons and the House of Representatives Business firms are called houses and some of them have their own papers called house journals Steamship lines have their own flags called house flags At Cyclord Christ Church is called 'the House' A houseboat is a kind of barge fitted up as a liver residence.

river residence

House Edward Mandell American politician Born at Houston, Texas, July 26, 1858, he was educated at Newhaven and at Cornell University Known as Colonel House, he became an influential figure in the House, he became an influential figure in the political life of Texas, but never held office In 1914, as an intimate friend of President Wilson, he was sent to Furope to collect information and in 1917, when the United states entered the war he represented his country in Paris Ho attended the Peace Conference, but retired into private life after Wilson's death In 1926 28 there appeared The Intimate Papers of Colonel House. The Intimate Papers of Colonel House

House Fly Two winged insect of a sub or blowfles (Musca domestica) It has a sucking probosers and walks on ceilings and windows by sucker like feet. Its eggs produce in a day legiess maggots which reach adult life in a month. It is a carrier of disease germs. The fly is found in all parts of the world

Household Name used for all the in used in a special sense for the kings or royal

u d in a special sense for the king s or royal household, which includes in addition to the royal family and the servants the officials of the court such as the Lord Chamberlain. The Household Cavalry is the name given to the regiments that have a special connection with the royal household. I ormerly there were three of these regiments, but since the Great War there have only been two the Royal Horse Guards and the Life Guards the lat and 2nd [166 Guards harding been analignment of Hurting. I ife Guards having been amalgamated During the Great War an Infantry battallon was formed from re-cree regiments of the Household (avairs The kings of France had their house hold troops until 1789

House Leek Genus of succulent herbs tomecrop order (Semperaturum). They are no lives of Europe Asia and North Africa. The British hardy perundal Sectionum frequently forms so etter of flesh leaves on cottage roofs and walls. It has spread to

659

rockeries and others in greenhouses.

Housemaid's Knee Painful of the pad or sac over the lower part of the knee cap It arises usually from much kneeling on hard substances, but sometimes from rheumatism or gout. It is a chronic inflam rheumatism or gout It is a chronic inflam mation caused by fluid collecting in the sac or by thickened sac-walls Rest is essential, with fomentations, blistering or tapping as a

Housing Provision of houses, especially in populous areas The question of providing houses became acute early in the 18th century owing to the rapid increase in the population and the growth of new industrial areas, the growing interest of the masses in economic and political matters, the demand for higher standards of life and, above all, the realisation that millions of men, women and children were living under conditions of filth, poverty and overcrowding

In 1843 a royal commission inquired into the matter and laws were passed providing that new houses should be of a certain standard in respect of sanitation and the like, but

private enterprise was regarded as equal to the task of providing them

In 1884 another royal commission was appointed and as a result a measure passed in 1890 gave local authorities power to clear slum areas, to close insanitary dwellings and to creet new ones. But the housing of the erect new ones But the housing of the people, as a whole, remained far from satisfactory. In 1909 another measure was passed which dealt also with town planning, but the Great War brought about a complete cessation of this work

A new era in housing began in 1919 when an important Act was passed allowing the gift of public money to aid individuals to build houses, provided these came up to a certain standard and did not exceed a certain cost. In spite of the high cost of building materials a good deal was done. In 1923 another Act promised financial aid to local authorities undertaking housing schemes. Other measures. undertaking housing schemes Other measures followed, the amount of the housing grant being altered from time to time Large housing estates were laid out by the London County Council and the corporations of Glasgow, Birmingham, Liverpool, Manchester and other large cities slum areas were cleared and the standard of housing in Great Britain was raised In 1931 a measure was introduced to aid the building of houses in rural areas, where the conditions although different, were in some ways as bad as those of the towns

Alfred English Edward Housman scholar and poet. Born March 26, 1859, he was educated at Bromsgrove School and S John's College, Oxford Pro-fessor of Latin in University College London, from 1892, he was in 1911 made Fellow of Trinity and Professor of Latin at Cambridge Ho has published two volumes of unique poetry, The Shropshire Lad (1896) a series of 63 ballad-like poems on country life, and Last Poems (1922), both marked by their flarriess trile. flawless style, economy of diction, melody and unflinching realism. He has also edited some volumes of classical works

Housman Laurence English author and and on Feb 13, 1542, beheaded and on Feb 13, 1542, beheaded Housman artist. Born July 18, 1865, he studied art and won a reputation by his book illustrations In 1893 he published a book on William Blake A great number of and there lived the life of a country gentleman

Several species are cultivated in volumes, both prose and verse, followed and he became known as a writer of graceful poetry and fanciful fiction The best known of his books are An Englishwoman's Love Letters, his books are An Englishwoman's Love Laters, published anonymously in 1900, Bethlehem a Nativity Play, Prunella, or Love in a Dutch Garden, Angels and Ministers A Doorway in Fairyland, The New Child's Guide to Knowledge and The Heart of Peace Recent books are Cornered Pocks, War Letters of Fallen Pocks was a Turk Angel. Takes Englishmen and Turn-Again Tales

Houston City and port of Texas It is from Galveston, and is an important railway junction There are many churches and schools, including the Rice Institute Houston junction is a market for cotton, rice, sugar and other products and has engineering works and flour mills By means of a ship canal, 50 m long, the city has become a prosperous port, especially for cotton Pop (1930) 292,352

Houston Samuel. American politician Born in Virginia, March 2, 1793, American politician he entered the army, but soon turned to politics, was elected to Congress and in 1827 was made Governor of Tonnessee Two years was made Governor of Tonnessee Two years later he settled among the Cherokee Indian-In 1835, when Texas revolted against Mexico, he was chosen as the leader of the Texan army, and in April 1836, he won a crushing victory This made Texas independent and Houston was its president until 1845, when it was annexed by the United States, then represented it in the Senate In 1859 he was appointed governor, but he was deposed in 1861 because he would not support the movement for secession He died July 26, 1863

Hova Name used for the inhabitants of Madagascar They came probably from Malava in the 15th century and in the 19th became the dominant people They num-19th became the dominant people ber (1941) 910 000, or about a quarter of the population, but their language is spoken by many more The word means "freeman"

Hove Borough and watering place of Bussex It is to the west of Brighton and 51 m. from London, on the S Rly The borough possesses a fine promenade and famous lawns, and here the Sussex Cricket Club has its grounds The area of the borough was ex-Pop (1931) 54,994 tended in 1928

Howard Noted English family Its early members lived in Norfolk, where several became of importance Sir Robert several became of importance Sir Robert Howard married a daughter of Thomas Mowbray, Duke of Norfolk, and in 1483 his son, having inherited the Mowbray estates in Sussex and elsewhere, was made Duke of Norfolk Since then this title has been held by the Howards the Earl of Carlisle, Earl of Suffolk and Berkshire, Viscount Fitzalan, Lord Howard of Glossop and Lord Howard of Penrith, formerly Sir Esmé Howard, British ambassador in Washington also are members of this famuly of this family

Howard Catherine Wife of Henry VIII
Howard, who was a son of the 2nd Duke of
Norfolk, she was born about 1522 On July 28,
1540, Henry married her secretly as his fifth wife Almost at once she was accused of misconduct before her marriage, found guilty and on Feb 13, 1542, beheaded

HOWATA Born in London Sept. 2, 1726

In 1773, when high sheriff, he noticed the terrible condition of the prisons and of the prisoners, many of whom were innecent of crime, and entered upon the work for which he is famous He visited prisons, not only in England, but in France, Germany and else where and wrote The State of the Prisons which drew public attention to the matter and led to considerable reforms He died at Kherson, Jan 20, 1790 A Howard Society has been formed to carry on his work.

Howard de Walden Baron title dating from 1597 The 1st baron was Lord Thomas Howard afterwards Earl of Suffolk a son of the 4th Duke of Norfolk From 1688 a son of the 4th Duke of Norfolk From 1688 until 1784 the title remained in aboyance and in 1797 it passed to the Earl of Bristol, a descendant of the 1st lord, thence, in 1803, to Charles Augustus Ellis, a diplomat. Ellis married a daughter of the 3rd Duke of Portland, whose valuable London property, in herited from her brother the 4th duke, passed to her son and then to her grandson The latter Thomas Evelyn Scott Ellis, who sue ceeded in 1899 is known for his interest in art and music He is also Baron Seaford and his and music He is also Baron Scaford and his London residence is Scaford House

Howard of Ellingham, Baron English title borne by the family of Howard The 1st baron was William Howard, Howard The 1st baron was William Howard, a son of the Duke of Norfolk He was born about 1510 and served Henry VIII and his three children He was Lord High Admiral, 1554 73 and Lord Chamberlain under Elizabeth He died Jan 12,1573 His son, Charles, the 2nd baron, also Lord High Admiral, was born in 1536 and led the fleet that defeated the Spanish Armada He was created Earl of Spanish Armada He was created Earl of Nottingham in 1596 and died Dec 14, 1624

Howden Market town of Yorkshire on the LNF Rly There is an aerodrome here Roger of Hoveden who wrote a chronicle of English history from 732 to 1201, was born Pop 2050 here

Howe Earl Findlish title borne in turn by the families of Howe and Curzon Figlish title borne in turn The 1st earl was the famous scaman, Richard Howe who was made an earl in 1788 no sons A daughter married Assheton Curzon and their son inherited from his paternal grandfather the title of Viscount Curzon and in 1821 was made Larl Howe Uchard Curzon Howe the 4th earl (1861–1929), was succeeded by his son Francis. Mr. 1918 29, and famous as a racing motorist The earls owned land in Buckinghamshire and Lelce-ter-hire but much has been sold. The earl's cidest son is known as Viscount Curzon

Howe Earl I regish sallor Richard Howe a younger son of the 2nd Viscount Howe was born in London March 8 1726 Fritering the navy he made a reputation during the Seven Years War notably in Quilteron Bay and in 1778 80 he was in command of a fleet that operated against the French off the North American coast. In 1782 Howe relieved Gibralter and in 1794 he gained a great victory over the French on the Glorious First of Jun

Between his spells of active service he was Treasurer of the Navy and First Lord of the observed on Nov 3

Admind y In 1758 on his brother a death he became an 11th viscount. In 1752 he was Huckleberry Firubs Indigenous to made an 11th viscount and in 1785 on earl. A America. They resemble whortleberries and

In 1797 he suppressed the mutiny at Spithead and he died Aug 5, 1799

Howells William Doan American nove-list Born in Ohio, March 1, 1837, he was the son of a printer While While working in his father's office he began to write for the press and also published a Life of Lincoln From 1861-65 he was consul in Vonice from 1872 to 1881, editor of The Allantic Monthly from 1886 to 1891, editor of Harper's Magazine He died May 11, 1920 Hovells wrote a great number of novels

dealing in a realistic way with American life They include Their Wedding Journey, The Undiscovered Country, An Indian Summer, The World of Chance and The Landlord of the Lion's Head He also wrote short stories, poems and a volume called Venetian Life

Howitt William English writer The son at Heaner, Derbyshire, Dec 18, 1792 and educated Heanor, Dorbyshire, Dec 18, 1792 and educated at Ackworth, Yorkshire, in a Quaker school He was apprenticed to a builder, then became a chemist. Later he spent some time in travelling visiting Australia in 1852 54 He became a spiritualist and died in Rome, March 3 1879 Howitt's works include The Boy's Country Book, Rural Life in England and An Illustrated History of England an Quakeres from Uttoxetor, whom he married in 1831, also wrote a good deal, her Tales for Children being extremely popular The two collaborated to write The Book of the Scasons and several others Mary Howitt joined the Church of Rome and died in Rome, Jan 30, 1888

Howitzer Form of cannon adapted for projectiles It has a short barrel, a large bore, low muzzle velocity and high trajectory, and is used for firing over earthworks or other obstacles, and for the destruction of buildings

Howth Watering place and urban district in Co Dublin It is to the north of Dublin, on Dublin Bay with a station on the GN (Ireland) Rly The Hill of Howth, over 550 ft. high, is a prominent landmark Pop 4000

Hoxton District of London In the borough of Shoreditch It includes Do Beauvolr Town The chief industry is cabinet making

Hoy One of the Orkney Islands It covers 53 sq m There is a harbour on the south coast called Long Hope Natural features are the pillar rock called the Old Man of Hoy and the Dwarfle Stone mentioned by Scott in The Pirate Ward Hill, 1560 ft high, is of interest to botanists

Hoylake Watering place of Cheshiro On the Irish Sea 9 m from Birkenhead on the L MS Rily it is noted for its golf links It forms part of the urban district of Hoylake and W Kirby Pop (1931) 16 628

Hubert Franklsh Filnt the patron of hobie family The story goes that when hunting he met a sta, bearing a cross between its horns. This converted him and he became a monk. Later he was made a bishop and havin, preached Chri tlanity in the district of the Ardennes he died in 727. His feast is observed on Nov. 3

cranberries The most esteemed is the common British Columbia black huckleberry, Gaylussacia resinosa

Hucknall Torkard Urban district town of Nottinghamshire It is 132 m from London by the L.M.S. and L.N.E. Rivs., and 8 m. from Nottingham The chief building is the church of S. Mary Magdalene, containing the church of S. Mary Magdalene, containing the tomb of Lord Byron who lived at Newstead Abbev There are hosiery works and collieries Here is an aerodrome Pop (1931) 17,338

Huddersfield County, borough and market town of Yorkshire (W R.) It stands on the Colne, 190 m from London and 16 from Leeds, and is served by the L.M S Rly and by canals The making of woollen goods is the principal industry there are also dyeworks, cotton mills and engineering works Huddersfield has an im engineering works portant association football club, which won the Association Cup in 1922, and reached the final in 1928 and again in 1930 Pop (1931) 113,467

Hudson River of the United States It rises in the Adirondack Mountains and flows through the state of New York to the Atlantic in New York Bay The Mohawk is one of its tributaries, and Albany is the chief town Towards its mouth the Hudson flows between New York and New Jersey, and on both sides are wharves and docks for steamers It is crossed by tunnels and terries which connect New York with Hoboken and other places in New Jersev

The Hudson, which is navigable for 150 m, is connected by canal with Lake Eric and Lake

Champlain It is named after Henry Hudson, and its valley, now traversed by a main railway line, was the chief trading route between New York and Canada It was important, too, during the War of American Independence.

Hudson Henry English seaman He was born in Queen Elizabeth's reign and made several voyages. On the third reign and made several voyages. On the thirty voyage he explored the Hudson River In 1610, in the Discoverie, he reached Greenland and entered Hudson Bay. During the winter the crew mutinied owing to want of food Hudson was put in a small boat with eight companions and set adrift (June 23, 1611), and work have been of him?

companions and set adrift (June 23, 1611), and nothing more was heard of him Hudson Bay Sea of Canada It covers 567,000 sq m. and 18 1300 m long and 600 broad. Several channels connect it with the Arctic Ocean and Hudson Strait with the Atlantic Its southern part is called James Bay It receives many Canadlan rivers including the Churchill, Nelson, Rupert, Albany and Severn During a good part of the year its navigation is impeded by ice. Churchill and Nelson are the chief ports. and Nelson are the chief ports.

Hudson Bay Company Trading company in Canada It dates from 1670 when Charles II gave a charter to Prince Rupert and others, bestowing upon them the lands around Hudson Strait and the sole frading rights therein They formed the Hudson Bay Company which for 200 years owned vest tracts of land in the N-W of Canada Poets or redding the N-W of Canada Po Canada Posts or trading stations were built Canada Posts or trading stations were built and a trade in furs was carried on with the Indians. In 1749 the company's land was defined as all that was watered by the streams flowing into Hudson Bay. In 1821 it was lowing into Hudson Bay. In 1821 it was united with a rival company and received a new charter. By this the company secured the sole right of trading with the Indians in made him prominent. In 1887 he started the

The area under its control was about 2,300,000 sq m

In 1869 the new Dominion of Canada de-

in 1869 the new Dominion of Canada decided to take over the vast area of land owned by the company Terms were arranged and the company retained some 18,000,000 acres, and received a sum of money It then became a limited liability company Its business consists chiefly of collecting furs. Its headquarters are in London and it has large stores at Winnipeg and elsewhere.

Sir William English astro Huggins nomer Born Feb 7, 1824, in 1855 he built an observatory at Tulse Hill, London, and there did most valuable work. He was the founder of the science of astrophysics and his discoveries about the spectra and the physical qualities of the nebulae were of the paysical qualities of the nebulae were of the highest importance. His wife, Margaret Lindsay Murray, helped in this work. Huggins, who died May 10 1910, was President of the Royal Astronomical Society, 1876-78, of the British Association, 1891 and of the Royal Society 1900-05 Made a K.C.B in 1897, he was given the Order of Merit in 1902. Lady Huggins died May 1911 1915. March 24, 1915

Hugglescote Town of Leicestershire It is a mining centre, 6 m from Ashby de la Zouche and 113 from London, on the LMS Riv Pop 5600

Hugh English saint. Born about 1135 at Avalon in France, he became a monk He crossed over to England and was made head of a Carthusian monastery in Somerset. In 1186 he was made Bishop of Lincoln and he died Nov 16, 1200 He was canonised in 1220 and his day is Nov 17 Hugh is remembered in English history for his is remembered in English history for his refusal to send knights to serve Richard I abroad

Hughenden Village of Buckingham-Bigh Wycombe Disraell lived and died here He bought the estate in 1848 and on his death it passed to his nephew Coningsby Disraeli

Hughes Charles Evans American politi-son of a Baptist minister he was educated for the Law and began to practise in New York From 1891-93 he was Professor of Law at Cornell University In 1907 he was chosen Governor of New York, and three years later was made a judge A candidate for the Presidency in 1916, he was beaten by Wilson From 1921-25 he was Secretary of State under Harding and presided over the Armaments Conference at Washington in 1921 He became Chief Justice in 1930

Hughes David Edward. English in-16, 1831, he went to the United States as a boy Educated in Virginia he was for a few years Professor of Music and then of Natural Philo-sophy at a college in Kentucky In 1855 he invented a type printing telegraph which was taken up in most of the countries of Europe His later inventions included the microphone and the induction balance He died Jan 22, 1900, and in May, 1931, the centenary of his birth was celebrated

London Mission in S. James's Hall adilly where he preached to great ences He travelled over the country audiences speaking on temperance and other causes

Hughes Hichard Freilish writer born in 1900 In 1922 his first play The Sisters Tragedy was produced He also vrote A Comedy of Good and Fril several plays for broadcasting purposes and many poems. In 1929 his successful novel A High H ind in Jamaica wis published and in 1931 The Spider & Palae (Stories for children)

Higher Thomas English writer Born

Hughes Thomas English writer Born at Utilington Berkshire Oct 20, 1822 he was educated at Rugby and Oriel College Oxford He became a barrister and in 1052 was made a county court judge From 1865 to 1874 he was a Liberal MP and he was associated with Kingsley and Maurice in the Christian Socialist movement He died

the Christian Socialist movement He died March 22, 1896
Huches is immortal as the author of Tom Brown's Schooldays published in 1857 and length autoblorraphical of his own life at Rurby He also wrote Tom Brown at Oxford and The Scouring of the Uhite Horse
Hughes William Born in Wales Sept.
25 1864 the son of a joiner he became a te cher, but in 1884 emigrated to Australian This is he worked on a sheep farm before settling The to be worked on a sheep farm before settling in sidner where he became associated vith the waterside vorkers. Prominent during the great strile in 1890, he organised a trade union great strile in 1890 he organised a trade union of which he became secretary and then president. In 1891 he was elected to the legiture of New South Wales. In 1901 he is elected a member of the first Common wealth Parliament and in 1901 was made Minister for External Affairs in the Labour Covernment. In 1908 having been a barrister since 1903 he was made Attorney General a possible field until 1909 and again from 1910. 13, and from 1911.

not from 1914 1.1 In 1915 and again from 1910 15, and from 1914 1.1 In 1915 Highest succeeded Fisher as Prime Minister and he filled that post through the verse of the war. He attended the Peace Conference in Paris where he forestally upheld An tally scase. In 1923 he resigned office but works, and seed crushing mills and here retained his sent in Parliament. In 1929 he Reel itt and Sons have their works. There is a formed what was called the Australian Party, which came to an end in 1341 entered the results to the constructed cabinet of Mr. Lyons, Oct. 1934. The museums include one named after not retain on account of discreant views on sone treatm on account of discreant views on sone tions. He regioned the Lederal Cabinet however.

volumes of verse were produced regularly, the best being Les Voix Intérieures also books also books dealing with the events of his own time, such as I Historie d'un Crimi and Navoleon le Petit

others were of an autolographical nature, yet others were humanitarian in tone part from his writings Hugo lived an eventful life He married in 1822 but his write soon preferred the society of Sainte Bouve, and he lived with an actress, Juliette Drouet He took an active part in politics First a roy alist, he gave his support to Louis Napoleon until 1818 In that very and 1819 he was elected to the constituent and the legislative assemblies and in 1851 having opposed the designs of the future emperor, he fled the country. He vent to Brassels, whence he was expelled and then to Jersey before making his home at Hanteville House Guernser where he passed much of his later life The life and scenery of Guernsoy gave colour to his later books. In 1870 71 he was in Paris and in 1876 he was chosen a member of the Senate. He died May 22 1885

Name used for the French Huguenots people who accepted the reformed religion. They came into existence in the 16th century and included many nobles. Until his conversion, Honry IV was a Huguenot. The Huguenots were persecuted and their people and the statement of the Huguenots were persecuted and their people and the statement of the Huguenots were persecuted and their people and the statement of the s Huguenots resistance led to religious wars. In 1598 by the Ldict of Nantes they were granted civil and religious liberty, but the Edict was revoked in 1665 and many Huguenots emirrated to England the Netherlands and Germany In 1789 the restrictions on their worship were removed

Hull City and scaport of Yorkshire (ER) in full, Kingston upon Hull It stands on the Humber, just where the River Hull falls into the estuary, and is 172 m from I ondon It is on both the LNE and LMS live, and a steam ferry connects it with New Holland in Lincolnshire

Hull owes its prosperity to its position. The docks cover 250 acres and a large trade passes through the port Much timber is imported and the fisheries are important. Steamers for The city from here to ports on the Continent

resign on account of divergent views on same tions. He rejoined the Federal Cabinet however in Feb. 1949 as Minister for Pep trustion after it like the graph of the CPR and a fell catting adherence to the Lovernment's police in 1921 to park hed his book. The Sphendul it with Ottawa. Hull is a centre of the lumber of the Int 1921 viiit it neithed.

collieries Pop (1931) 7878 The other two are Middle and Over Hulton

Humanism Term used for learning, especially a knowledge of literature It arose at the time of the Renaissance and the early humanists included Sir Thomas More and Erasmus

Humanitarian Word used loosely for a philanthropist. It meant originally one who did not believe in the

divinity of Christ

The Royal Humane Society at 4 Trafalgar Square, London, W.C., is concerned with re-warding those who save life, especially at sea

Humber Estuary of the east coast of England It is formed by the rivers Trent and Ouse which unite near Goole It is about 38 m in length There is a ferry between Hull and New Holland in Lincolnshire, and it is proposed to build a bridge

Humbert I. King of Italy Born in Turin, March 14, 1844, he was the eldest son of Victor Emmanuel, who became king of united Italy in 1870 He took part in some of the fighting of the period, and in 1878 became king, reigning until he was killed at Monza by an anarchist, July 29, 1900 He was succeeded by his son, Victor Emmanuel III

Humble Bee Widespread genus of bees (bombus) Humble bees live in communities and are found in the warmer parts of the world. The females and the neuters help to construct the irregular nest, where honer is stored for the females, who alone survive in the winter The common B terrestris forms nests of carded moss, the stone humble bee, B landarius, forms nests in cavities They are sometimes called bumble heed

Humboldt Baron von German scientist Born in Berlin, Sept. 11, 1769, Friedrich Heinrich Alexander Humboldt, the son of aristocratic parents spent his early years in study and travel, afterwards becoming a mining official In 1799 he went to S America exploring and ascended 19 000 ft up Chimborazo In 1829 he explored in Asia. In 1845 he published the first volume of his influential Cosmos Three other works followed and their appearance marks a stage in the history of the scientific knowledge of the earth. He also wrote 30 volumes on his travels in S. America, besides books on other subjects His last years were passed in Berlin. He died May 6 1859

Humboldt's elder brother Karl Wilhelm von Humboldt, became a diplomat and represented Prussia in Rome and Vienna From 1808-10, he was Minister of Education and he was responsible for the foundation of the University of Berlin A great student, especially of language and literature he died April 8, 1835

The Humboldt current is a current that flows from Valparaiso to Ecuador along the coast of America

Hume Born in Edinburgh, April 26 1711 he was educated there and in France by the Jesuits He was trained for the law, but turned to literature and in 1737 wrote A Treatise of Human Nature Essays Moral, Social and Political followed, and in 1751 Inquiry into the Principles of Morals In 1752 he was appointed librarian to the Advocates Library. Edinburgh Principles of Morais In 1152 he was appointed librarian to the Advocates Library, Edinburgh and wrote his famous Political Discourses, then, between 1754 and 1762, his History of them. England, which gave him a great reputation He died in Edinburgh, Aug 25, 1776

Hume's writings exercised a great deal of influence, although they were suspect to many Christians In philosophy he was a utilizarian and he put forward the doctrine of Free Trade which was taken up by Adam Smith

Hume Joseph British politician. Born in Montrose, Jan 22, 1777, he became a doctor and served in the army After a period as a surgeon under the East India Co, in which he made a fortune, he returned to England in 1808 In 1812 he was elected MP for Weymouth and he sat in the House of Commons for the remainder of his days, re Montrose from 1842 He died Feb representing Hume was one of the first of the Radicals and advocated reform of almost every kind, financial legal and economic

Humerus upper bone of the arm It articulates with the scapula or shoulder blade, forming the shoulder joint, and with the radius and ulna at the elbow The shoulder joint, held in a fibrous capsule, forms a ball and socket joint which, in man, allows a great swing of movement of the arm.

In meteorology the state of Humidity the atmosphere as regards the degree of moisture it contains Low humidity is when the air is dry and high humidity when excessive water vapour is present. The humidity of the British Isles varies greatly between day and night, but seasonal variation is relatively small. The amount of water vapour in the atmosphere is measured by the hygrometer (q v), and expressed in inches of morcury as absolute humidity

Humming Bird Large family of American birds allied to swifts They make a humming sound when vibrating the wings in rapid flight. There are about 500 species, found in tropical regions Many have brilliant plumage, but little or no song They feed mostly on insects which they collect from flowers by their long tongues

Humogen Form of humus It is prepared by the inocuration of peat by certain forms of aerobic bacteria causing decomposition of the peat into a material consisting largely of ammonium When humogen is applied to soils. humate nitrogen fixing bacteria are introduced and the soil is rendered more fertile by the action of these micro-organisms

Humour Sense of fun, appreciation of anything that is comical or witty Its early meaning was different. The ancients believed that in man there were four humans blood chelor phlemans believed. humours, blood, choler, phlegm and melancholy A man was sanguine, or billous, or phlegmatic, or melancholy, according as one or the other predominated in his constitution.

When the word began to be used in its modern sense the word humorist was given to a man of letters who was able by his writings to amuse. Rabelais and Dickens are among the world's greatest humorists Tom Hood was another, and many have been associated with Punch The word also came to be applied to artists who possessed the same power, prominent among whom was John Leech

Thackeray in his English Humorists gave a somewhat wider meaning to the word A humonst should be distinguished from a wit. Sydner Smith was a wit, but hardly a humorist. Humperdinck Engelbert German composer Born at Siegburg, Sept. 1, 1854, he studied at Munich and in Italy, and helped Wagner to produce

664

Parsifal He became professor of composition at Frankfort, moving to Berlin in 1900. His works are frequently based on peasant music notably his delightful children's opera, Hansel and Gretel He dled Sept 27, 1921

Hunchback Deformity sometimes seen in men and women It is due to a curvature of the spine, which in turn arises from tuberculosis It is incurable, arises from tuberculosis It is incurable, although treatment may prevent it from getting worse. There are many hunchbacks in legend and fairy lore in real life Richard III was notable

A variant of the word is humpback. A kind of whale black in colour and valued for its oil, is called the hump-back whale on account of its shape

Hundred Name used for a division of many English counties It goes back to Anglo Saxon times when we hear goes back to Angio saxon times when we fixed of hundred courts and hundred men These lasted until the end of the Middle Ages, but until 1886 the hundred was liable for damage done to property by ricters The hundreds still exist and the word is occasionally used In Lincolnshire and other parts of England where Danish influence was strong the equivalent to worsential. In Suggery and Kont it is

lent is wapentake In Sussex and Kent it is rape or lathe, and in Northumberland and Cumberland it is ward The name may have meant that 100 families lived in the district or

that it contained 100 bildes of land

Hundred Days Name given to the period between Appeleon s escape from Fibn and his surrender after Waterloo It lasted from March 20, when he entered Paris to June 28 1815

Hundred Years' War Struggle between England and France It began in 1338 when Edward III claimed the throne of France The Inglish von victories at Crecy and Poitiers and in 1360 peace was made at Bretigny By this Edward secured much of Folicies and in 1900 peace was made as Bretign; By this Edward secured much of France, but not the crown. The war began again in 1909 and lasted with intervening truces until 1396. By the treaty of 1396 the English lost a good part of their possessions. Another period of warfare began in 1403. In 1415, Henry V. claiming the throne of the product a more screens affely. He wan

France made it a more serious affair. He won the Battle of Agincourt conquered Normandy and in 1420 by the freaty of Troyes was recognised as Regent and future King of France However part of the nation objected to I milish rule and the war went on until 1429 when the tide turned on the arrival of Joan of Are The English then steadily lost ground and the struckle ended in 1453, all France, except Calais being lost

Hungary kingdom of Europe In its 1919 when it was separated from austria. Its rea is 3 b 575 sq m and it lies between Austria Coshoolovakia, Rumania and Yugo Slavii. The Danube the chief river, flows from north to south. Balaton is the largest lake. The capital is Ludapest. The next largest places in Aregad and Debreezen. About 90 per cent.

of the people are Magyars

mined and there are considerable forest areas The country has a good system of railways. Its rull t to the mais along the Danube on which il re are elver jore...

The throne being regarded as vacant till the people shall be freed from external pressure Hungary is governed by a regent with a legislature of two houses There is an army, limited by treaty to 35 000 men, but no navy

or air force Pop (1930) 8 688,349 HISTORY Hungary became or air force Pon (1930) 8688,339
HISTORY Hungary became a kingdom about 1000, Stephen, who was made its patron saint, being the first king For 500 years it was ruled by his successors, much of their time being passed in warfare with the Turks In 1626 King Louis was killed in battle, and Fordinand, Archduke of Austria who had married his sister, became king This united Hungary with Austria and from 1867 till 1918 the two formed the dual monarchy, or empire. the two formed the dual monarchy, or empire, of Austria Hungary In 1018 the Emperor Charles was deposed and a republic was proclaimed The Bolsheviks became supreme, but wore soon driven out, and after much trouble the present system a monarchy without a monarch, was established In the 19th century Hungary covered 120,000

sq m The Treaty of Trianon however, gave much of this to neighbouring states, leaving the new Hungary less than a third the size of the old one The losses included a coast line
On the other hand Hungary was made a
homogeneous state Previously the rivalries
between Magyars and Germans had been a
source of trouble The reduction of Hungary s area, however, has caused much unrest.

Hungerford Market town of Berkshire It stands on the River Kennet, 25 m from Reading, on the GW Rly At Hocktide, the second Monday or Tuesday after Easter, an annual festival is held The town has an agricultural trade and is a fishing centre Pop 2784

Hungerford Name of a famous Eng lish family Sir Walter Hungerford was made a baron in 1426 The title was held later by the earls of Huntingdon and the marquesses of Hastings It fell into aboyance in 1868 and again in 1920 Since 1921

it has been held by Viscountees St. Davids
The family had a house near Charing Cross
and in the grounds a market was built in 1009 It was called Hungerlord Market and lasted

until 1862 The bridge across the Thames here is called Hungerford Bridge

Huns

Huns Horde of Aslatics who invaded Europe in the 4th contury, doing great damage After a career of conquest under Attila they were defeated in 451 at Châlons by Theodoric, King of the Visigoths Soon afterwards they disappeared They gave their name to Hungary

Hunstanton Watering place and urban district of Norfoll It stands on the Wash, 112 m from London on the I N E Rly Near is the village of Old Hunstanton with a fine church The hall has a controlled the seat of the family of Lee Watering place and urban been for centuries the seat of the family of Lo Strange Pop (1931) 3131

Hunt hame used for a body of men, with accompanying dogs that hunt wild animals The chief are those that hunt the fox, but there are also hunts for stars and otters. The chief English hunts include the Quorn, The surface is almost uniformly level and Meynell Cotte-more Pytchley and Belvoir with a fertile soil agriculture is the main | keeh las a muster (M k H ), a chief whip and industry Whe t main; rye barley and other whips and a pact of hounds. The pata is a regrown in large quantities. Coal expenses are grown in large quantities. expenses are usually met by subscriptions, but a few hunts are maintained by individual noblemen

Hunt James Henry Leigh Fnglish writer Born at Southeate, London, Oct. 19,

1784, the son of Isaac Hunt, a clergyman from Barbados, he soon began to write, and in 1808 became editor of the *Examiner*, a paper started became editor of the Examiner, a paper started by his brother In it he gave utterance to advanced views, and for a libel on the Prince Regent, whom he called "a corpulent Adonis of 50," he was sent to prison for two years in 1813 In 1821 he went to Italy to visit Shelley and Byron, and was there when Shelley was drowned With Byron he started a quarterly magazine called the Liberal, but it soon died With his wife and seven children he returned to London in 1825, and lived in noverty there

With his wife and seven children he returned to London in 1825, and lived in poverty there until his death at Putney, Aug 28, 1859

Hunt was friendly with most of the great literary figures of his day He himself wrote essays, poems and novels, as well as Lord Byron and Some of his Contemporaries and an action of the Poets. The The Feast of the Poets, The Autobiography Story of Rimin, Wit and Humour, and Imagina-tion and Fancy, contain some of his best work.

Hunt William Holman. English painter Born in London, April 2, 1827, he was a clerk before entering the Royal Academy schools. Soon he began to exhibit and in 1848 he assisted D G Rossetti, John E Millais and others to found the Pre-Raphaelite brotherhood, on which, many years afterwards, he wrote a book. In 1905 he was given the Order of Merit and he died in London, Sept. 7, 1910

Helman Hunt's best picture, though perhaps over elaborate, is "The Hireling Shepherd" in Manchester "The Light of the World" is in Keble College, Oxford, and a copy is in S Paul's Cathedral "The Triumph of the Innocents" is in Manchester, and "The Finding of Christ in the Temple" in Birming-Others are in the Tate Gallery, London.

Hunter John Scottish surgeon Born in Lanarkshire at Long Calderwood, Feb 13, 1728, he was for a time in business in About 1745 he followed his brother, William, to London, where he studied at the hospitals and assisted in his brother's surgical work. He became a surgeon at S George's Hospital and gained further experience as an army doctor between 1760 and 1763 In 1763 he began to practise in Golden Square, London, and was soon one of the leading surgeons of the day, being made surgeon extraordinary to George III, and deputy surgeon general of the army He was elected an FRS He died Oct. 16, 1793, and is buried in Westminster Abbey

Few names stand higher in the medical profession than that of Hunter His operation for aneurism made him known, but he was much more than a skilled surgeon He made an anatomical collection and his 10,000 specimens, for which he built a museum in Lelcester Square, London, were bought and given to the Royal College of Surgeons He also wrote books on geology and other branches of science In 1813, in his honour, the College of Surgeons founded the Hunterian Oration, which is still given annually He is also remembered by the Hunterian Society

William Hunter (1718-83) was physician to Queen Charlotte and Professor of Anatomy at the Royal Academy He, too, formed a collection and built a museum, which became the much more than a skilled surgeon. He made

tion and built a museum, which became the property of the University of Glasgow

Hunter Sir Archibald British soldier. Born. Sept 6, 1856, he was educated at Glasgow Academy, and entered the army In 1884 he went to Egypt, where he be-came associated with Kitchener In 1895 he was given command of the Frontier Field Force

In 1898 he led a division at the Battle of the Atbara and was in command of the British division at Omdurman, being then made Governor of that place He was knighted in 1898 In 1900-01 he commanded a division in Africa, in 1901-03 he was commander-inchief in Scotland, and from 1904-09 he was in India, first at the head of an army corps and then of the southern army From 1910-13 Hunter was Governor of Gibraltar During the Great War he held high command at home until he retired in 1918 From 1918-22 he was Unionist MP for the Lancaster division.

Hunter's Moon Month after the heart moon, which is the full moon nearest the autumnal equinox. The hunting season succeeds harvest

Huntingdon Borough and market town of Huntingdonshire, also the county town It stands on the Ouse 60 m from London on the L N E Rly Notable buildings are the George Inn with its gallery in the courtyard and Cromwell House, a reminder of the town's association with the Protector's family Pop (1931) 4108

Huntingdon Countess of Selina, daughter of Earl Ferrers, of Huntingdon About 1739 she became a follower of John Wesley She made George Whitefield her chaplain, and soon after her husband's death began to build chapels Later she formed a separate denomination called the Countess of Huntingdon's Connexion, and founded a college for training ministers at and founded a college for training ministers at Talgarth When she died, June 17, 1791, there were 64 chapels in her Connexion This is now part of the Congregational denomination

Huntingdon Earl of English title held by the family of Hastings For a long time the earldom of Huntingdon was held by the kings of Scotland, but this arrangement ended about 1330 In 1529, George, Baron Hastings, was made earl and the title still remains with his descendants The earl's eldest son is called Viscount Hastings

Huntingdonshire County of England, it is the smallest in the east of the country. Its area is 366 sq m. The land is flat and the soil fertile, wheat and barley being grown. Huntingdon is the county town, other towns are St. Neots, St. Ives and Godmanchester. The chief river is the Great Ouse, the Nep forms the porthern houndary. The the Nen forms the northern boundary The railways are the L M.S and L N E, and the county is traversed by the Great North Road Pop (1931) 56,204

Huntingtower It is on the River Almond, 3 m from Perth, and is famous for its castle This was originally Ruthven Castle, and from it James VI was taken forcibly by the Earl of Gowrie and his associates in 1582. The name of the castle was then changed. Now partly a ruin it is open to visitors Huntingtower gives its name to a novel by John Buchan The village has bleaching yards

Huntly Market town of Aberdeenshire. union of the rivers Deveron and Bogie, on the LNE Rly The castle, once a seat of the Gordons, is in ruins The district around Huntly is called Strathbogie Huntly is an agricultural centre Pop 3750

Huntly Marquess of Scottish title held by the family of Gordon In 1449

Alexander Seton a grandson of Sir Adam Gordon was made Earl of Huntly, and took the name of Gordon The succeeding earls, who had extensive lands in Aberdeenshire and lived at Huntly Castle, were persons of note in Scottish history two of them being Lord Chancellor In 1599 George Gordon, the 6th earl, was made a marquess George, the 2nd marquess was executed in 1649 for his loyalty marquess was executed in 1643 for his loyalty to Charles I in 1661 George, the 4th marquess, was made Duko of Gordon This title became extinct in 1836, when a distant kinsman, George Gordon, became Marquess of Huntly The title still remains in his family The seat of the marquess is Aboyne Castle in Aberdeen shire and his eldest son is called the Earl of Abovne The marquess ranks as the premier marquess of Scotland

Hunyadı Janos Hungarian statesman he won renown in the Hussito Wars and for some time governed his country as regent From 1441 onwards he won brilliant victories ngainst the Turks and was largely instru-mental in saving Constantinople and main taining Hungarian independence He died in

Huonpine Evergreen tree of the natural order conference. Allied to the yew it grows to a height of 100 ft The wood

rew it grows to a neight of 100 it. The wood is close grained and has an aromatic odour It is found chiefly in Tasmania

Hurdle Interlaced frame of twigs or pens for sheep and for other such purposes or for games Formerly prisoners were dragged to execution tied to a hurdle

Races over hurdles are events at most athletic sports. The usual lengths are 120 220 and 440 3 ds Hurdle races for horses are also

held Hurlford Town of Avrshire Near Kilmarnock it is situated on the Irvine, and is 389 m from London by the LMS Ris There are coal mines near, and worsted is made Pop 3825

Hurlingham District of London It horough of Fulham adjoining the Thames In 1867 the club called the Hurlingham Club was formed here It hought Hurlingham House and grounds and was for some time a centre of pigeon shooting Later It took up polo and is now the recognised authority on this game

Hurley hirling It rather resembles hoeler which has developed from it The implements are a ball and stick with ends much wider and flatter than those of a hockey stick. In game is played usually by Lo a side and a goal is scored when the ball is driven into the net as at association football counts three points if the ball is sent over the god post but between the uprights one point is scored. The players may in addition to hitting the ball carry it on the blade of the Hick

One of the five great lakes of N Huron America It covers 23 200 sq m and 1s 207 m long Partly American and 1 arth Canadian it includes Georgian Bay and Sazinat 1 av It 14 connected with 1 akt buperior by the Sault Ste Marie Canal to Like Fif by the St CL 12 and Detroit rivers and to Lake Michigan by the Strait of Meckinae and to Lake Michigan by the Strait of Meckinae The Largest I-land in it is Grand Manitoulin which is on the Caradian side The ports is lede 1 by Cary Sarnia and Gederich The Huss John Bohemian reformer He was being lede 1 by Cary Sarnia and Gederich The

name Huron is that of a group of Indian tribes once living in Ontario

Hurricane Violent tropical storm as changes of the wind It is common in the W Indies, chiefly during August and September Hurricanes soldom occur in the S Pacific and are unknown in the S Atlantic They are generated as small cyclones of slow motion with steep gradients along the polar marcin of the steep gradients along the polar margin of the Equatorial belt.

Hursley Village of Hampshire It is 5 m from Winchester Hursley Park, long the seat of the Heathcote family, is the successor of the house in which Richard Cromwell lived

Hurst Castle Building in Hampshire It stands at the western end of the Solent 4 m from Lymington, and is the property of the Admiralty It was built in the 16th century to guard the Solent. On the promontory is also a lighthouse and a signalling station Charles I was imprisoned here in 1648

Hurstmonceaux It is 12 m from Eastbourne Its feudal castle, long a ruin, was restored in the 20th century. All Saints is an old church with memorials to the families of Flennes Dacre and Hare

Hurst Park Racecourse in Surrey It is at Molesey Hurst on the Thames Opposite to it, on the Middlesex elde of the river, is Hampton.

Hurstpierpoint It is 8 m from Brighton and 2 from Hassocks, its station on the S Rly Holy Trinity Church is a fine modern building Hore is S John's College, a public school for boys

Husband Married man Until recent times husband and wife were in very different positions before the law of England, as they were, and to some extent are, in other countries To day they are in many respects equal Since 1870 a married woman's property has been distinct from that of her husband The grounds on which divorce can be obtained are now the same for both executions. be obtained are now the same for both sexes Until 1923 a wife could not obtain a divorce for adultory unless it was accompanied by cruelty

A husband is responsible for his wife a debts A fusbald is responsible of its who a debts, as far as they are for household necessaries, and for maintaining her in her station in life flushand can, however rid themselves of this responsibility by making an announcement to tradesmen, usually through the Press, to that effect. A husband is responsible for damage-If his wife libels or slanders any one

The word husbandman is sometimes used for a farmer and farming is called husbandry ship's husband is a man who looks after the fittings etc of the ship

Huskisson William English statesman March 11, 1770 he entered Parliament in 1790, and in 1801 Pitt made him Secretary to the Treasury In 1814 he was made Commissioner of Woods and Forests in 1823 President of the Board of Trade and in 1827 Secretary for the Colonies He left office in 1828 and was killed Sopt. 15 1830 at the opening of the Liverpool and Manchester Rly. Although a

peasant, and was named after his birthplace, Husinetz He became a priest and in 1402 was made Rector of Prague University His czechs against the Germans, but he is better known for his reforming zeal. His preaching of Wycliffe's doctrines aroused the anger of the Wycliffe's doctrines aroused the anger of the authorities, and he was charged with heresy However, he had by now a numerous following and, in spite of a Papal interdict on the city and his own excommunication, he continued to preach Gradually his position became more difficult and in 1412 he retired from Prague and wrote his chief work, De Ecclesia In 1414 the Emperor Sigismund gave Huss a safe conduct to attend the Council of Constance He went and was at once arrested as a heretic, was tried, condemned on July 5, 1415. and was tried, condemned on July 5, 1415, and on the next day was burned See HUSSITES

Hussar Name given to certain kinds of meaning a freebooter and the first hussars were Hungarian soldiers. They were a busby, which is still worn by the hussar regiments in the Rutter Gornal and Attachments.

British, German and other armies
Before the Great War there were 12 regiments of hussars in the British Army, now
there are only nine These are the 3rd, 4th,
7th, 8th, 10th 11th, 13th and 18th, 14th and
20th, 15th and 19th, the last mentioned three
being amalgamations

on the next day was burned

Hussein King of the Hejaz He was an Arab chief and as grand sheriff ruled the district around Mocca as a vassal of Turkoy In 1916, assisted by Great Britain, he declared himself independent His troops, under his son, Feisul, entered the war against Turkey, and soon Husseln was recognised as King of the Helaz His rule lasted until 1924, when Messa was taken by the Wahabis and he

abdicated He died June 4 1931

Another Hussein was the first Sultan of Egypt A son of Ismail Pasha, he was made sultan in 1914 when Egypt passed under British protection His reign ended with his death, Oct. 9, 1917

Hussites Followers of John Huss After his martyrdom in 1415, his followers, already formidable, became important politically. Under John Zizka and other leaders they made war for several years on the Emperor Sigismund. In 1431 peace was made by the Calittines, one of the two parties into which they were divided, the other, the Taborites, refused to come to terms until some years later. They are now known as the Bohemian Brethren. years later They Bohemian Brethren

Hustings Platform used in England at duction of secret voting. It was erected in front of the town hall and from it the candidates delivered except hall and from it the candidates. delivered specches when nominated The scene before the hustings is described by Dickens in The Pickwick Papers and pictorially by Hogarth

Hutchinson John English soldier A son of Sir Thomas Hutchinson of Owthorpe Nottinghamshire, he was born in Sept 1615 In 1642 after studying law, he joined the Parliamentary forces and was made Governor of Nottingham Castle, which he defended until the end of the struggle Ho was M.P for Nottingham in the Long Parliament, was one of the judges of Charles I, and a member of the first Council of State He was less prominent during the Commonwealth period, but was a member of Parliament in

1659 and 1660 In 1663 he was arrested in connection with a plot against Charles II, and he died in prison, Sept 11, 1664

Hutchinson is known through the delightful

Memors of Colonel Hutchinson, written by his wife, Lucy, daughter of Sir Allen Apsley In this he is represented as the ideal Puritan contleman

Hut Circle Remains of a prehistoric British examples survive At Glastonbury there are 90 with centre posts supporting thatched roofs Grimspound, on Dartmoor, has 21 Carn Bree, Cornwall, has 100 Tv Mawr, Holyhead, includes more than 50 There are many in Anglosey

Huth Library Collection of books (1815-78), and augmented by his sen Alfred Henry Huth (1850 1910), members of a firm of London bankers It contained early printed English, Spanish and German Bibles, books of voyages and poetry besides MSS and prints The son bequeathed to the British Museum a choice of 50 items Alexander Cochrane purchased for the Yale University Elizabethan Club 43 Shakespearean folios and quartos, reputedly for £50 000 The remainder were auctioned in 1911 20, and realised large sums

Huthwaite Urban district of From From Urban district of Notting-Mansfield and electric tramways link it with Sutton-in-Ashfield It is a coal mining centre Pop (1931) 5092

Hutten Ulrich von German writer. Born April 21, 1488, and educated at the abbey of Fulda, he studied law at Bologna and was secretary to the Archbishop of Mainz Ho began to write against the Roman Catholic Church and had to seek refuge with the Protestants Hutten is best known by his Epistolae Obscurorum Virorum (Letters of Obscure Men), satires on the ignorance of the monks, and his Dialogues, attacks on the Pope and the Church He died Aug 28, 1523

Hutton He died Aug 28, 1523
Hutton Hichard Holt. English journalist
He was born in Leeds, June 2,
1826, and educated at University College,
London, and abroad. In 1851 he became
editor of the Enquirer later he was joint
editor of the Ecoromist. At the same time
(1856-1865) he was Professor of Mathematics
at Bedford College, London In 1860 began his
long connection with the Spectator, which he
helped to control until his death, Sept 9, 1897
He wrote on theological subjects and con-He wrote on theological subjects and contributed to the Speciator

Huxley Aldous Leonard English nove-list Born July 26, 1894, he was a son of Leonard Huxley, editor of the Cornwall Magazine and grandson of T H Huxley He was educated at Eton and Balliol College, Oxford, and soon began to write for the Press In 1916 a novel, The Burning Wheel, appeared and others followed Perhaps the best known are The Defeat of Youth, Chrome Yellow, Little Mexican, Jesting Pilate and Point Counterpoint, and his essays, Music at Night In 1932 appeared Brave New World. Huxley's elder brother, Julian Sorell Huxley,

was born June 22, 1887, and educated at Eton was born June 22, 1007, and educated at Life, and Oxford, becoming a scientist. He was in the United States 1912-16 and in 1919 was made Fellow and Lecturer at New College, Oxford From 1925-27 he was Professor of Zoology at King's College, London, and in 1926 was made Fullerian Professor of Physio from his blood. A festival called the Hyacinthia logy at the Royal Institution. He succeeded was held in his honour in Sparta. Sir Peter Chalmers Mitchell as Secretary of the Zoological Society. Huxley has done extremely Hyades. Maidens in Greek mythology. Zous entrusted them with the Zoological Society Huxley has done extremely valuable work in biology

Huxley scientist. Born at Enlig May 4, 1825, he became a medical student. In 1846 he secured an appointment as assistant surgeon on H VS Raillesnake was engaged for three years on surveying work in Australian waters, and on his return published some papers recording his discoveries about ocean life. In 1851 he was made an F R S, and in 1854 Professor of Natural History at the Royal School of Mines. In 1863 he was made an F R S, and in Royal Institution and from 1881 S5 he was Inspector of Salmon Fisheries. He was President of the British Association and other learned of the British Association and other learned societies, and in 1892 was made a Privy Councillor He died June 29, 1895
Huxley wrote a number of scientific works also some popular books on scientific subjects

These included Lay Sermons and Essays on Controrersial Questions An authority on animal life and a champion of evolution, Huxley was one of the foremost scientists of

the 19th century

Huysmans Jorls Karl French novellst in Paris Feb 5, 1848 he was a stern realist, as is shown in his carly works notably Ln Ménage (1881) but his later works display a transition from Satanism towards religion in Funtal and America rules and America in La Paris La Durtal a character who appears in La Bas and I'Oblat He was much influenced by the do Goncourts who admitted him to their academy He was converted to Catholicism and died a mystic, May 13 1907

Hyacinth Hardy bulbons herb of the vated especially in Holland since the 16th century for its sweet scented flowers. It was derived from a Levantine plant Hyacanhius orientalis. Growers have produced single and double blooms in red blue purple yellow and white both for indoor and bedding culture, and h and I oman forms also occur

Hyacinth Transparent red variety of the mineral zircon a silicate of irronium It is known also as jacynth and is valued as a fem stone its colour probably being due to traces of Iron oxide. It is found in sands rad gravels in Cecton and Central France as a decomposition product of granitic rocks.

Hyacinthus In Greak mythology the kl ... He was very beauti il and va loved by

care of Dionysus and they were afterwards
English placed among the stars The name is now that

Hybrid Term applied to an animal or different species or varieties Usually among animals the hybrid is storile, although the result of the first crossing of different breeds or races is commonly great sturdiness or hybrid vigour' shown in greater strength, size, and often resistance to unfavourable conditions. In 1932 an experiment in hybridism was successfully carried out an cland antelopo being mated with a domestic cow

Hydaspes Old name for the Indian river
Hydaspes Sutlej On its banks Alexander
the Grant won a famous victor;
Hyde Borough and market town of
Cheshire It is on the river Tame,
181 m from London and 7) from Manche ter, on
the L MS Riv Here are engineering works
and also but factories and entire mills. Pan and also hat factories and cotton mills (1931) 32,066

mystic, May 13 1907

Huyton Urban district of Lancashire Huyton (alled Huyton with Roby Huvton is 5 m from Liverpool and is a junction on the L MS Rly Near is Knowsley the seat of the Larl of Derby Pop (1931) 5198

Hwang Ho River of China sometimes and the Hoang Ho It rices in Tibet and flows through China to the Pacific Ocean in the Gult of Chila li where it enters the sea by a great delta. Its chief tributary is the Wel ho Inmany places the river is above the level of the surrounding country its waters being confined by enrounking its waters being the river has changed its course.

Hyde Park between Park Lance Knightsbridge, Kensington Gardens and Bays water Road. In it are the Serpentine, and artificial lake used for bathing and boating. Rotten Row, used for riding and boating. Rotten Row, used for riding and a bird beautiful. The park covers 360 acres and is beautiful. The park covers 360 acres and is beautiful. The park Corner and another called the Marble Arch Near the Marble Arch Near the Marble Arch openations the river has changed its course.

The park was oneen Park Lance Knightsbridge, Kensington Gardens and Bays water Road. In it are the Serpentine, and ritificial lake used for bathing and boating. Rotten Row, used for riding and boating. Rotten Row, used for riding and boating and the Dell The flower beds are very beautiful. The park covers 360 acres and is the castern end by fine gateways, one at Hyde Park Corner and another called the Warble Arch Near the Marble Arch Near the Marbl

and it has since been crown property. At one time races were held here and in 1851 it was the scene of the great international exhibition for which the Crystal Palace v as rected

Hyderabad City of India and the Hyderabad capital of the state of Hyderabad also spelled Haldarabad Some beautiful buildings include the Nizam's palare, the Jama Mesild Mosque and the Char Minar, built in 1591—The inner city is surrounded by walls 6 m in circumference. Beyond 1s the outer city called Berun the whole covering 30 sq m. There is railway connection with secund rabad and other places. Pop. (1931) 166 594

Another Hyderabad is a town in Bombay Pop 82 000

Hyderabad Native rtate of India It si ts of two parts Maratha ara and Telingana At odo He L. his dee h when the two west its a ex is \$2.695 sq. m and the ruler is the thirting teacher and the story goes that the Niam who is entitled to a solute of 21 guns, those maked after him the heacinth spran Hyderabad is the capital. Having been part of the Mogul Empire, Hyderabad became independent in 1724 In 1766 a treaty was made with the East India Company, and since then friendly relations with the British Empire have been the rule Pop (1931) 14,436,148

Hydra In Greek legend, a nine-headed monster haunting the Lerna marshes. Its destruction formed one of the labours of Hercules As each head was removed two others replaced it, the central one being immortal Aided by Iolaus, Hercules burned their roots with firebrands, and then severed and buried the central head.

Hydra Small freshwater organism or "polyp" Belonging to the class hydrozoa, it is common in ponds and streams, where it attaches itself by a sticky secretion to weeds, etc The hydra consists of a soft tubular body, it to i inch in length, with a circlet of six to eight hollow tentacles round the mouth

Hydrangea Genus of flowering shrubs flowers are white, blue or pink. Several are grown in Great Britain notably H paniculata and H hortensia, the former being much the hardler of the two They like a sheltered position in sandy loam and the soil should be well manured They can be planted in March or October The hydrangea is also suitable for pots and for forcing in a hothouse

Hydrant Appliance for drawing water off The common fire hydrant consists of an upright hollow ovlinder furnished with a nozzle for the attachment of a hose and with a valve and waste pipe near the main When the valve is closed, the waste pipe opens to allow escape of water

Hydrate Chemical compound in which stances, salts, etc., without alteration of the arrangement of the atoms in the water. The presence of water affects the crystalline form of the compound and may cause change of colour. The combined water is readily removed by moderate heat.

Hydraulics Subdivision of engineering It consists of the application of the laws of hydro-dynamics to the transmission of power by means of water pressure A head of water, natural or artificial, may be used as a source of energy for driving machinery, such as presses, lifts, cranes and also turbines

Hydrocarbon Compound composed of carbon and hydrogen in various proportions. These compounds are numerous, and are obtained chiefly from petroleum, a complex mixture of hydrocarbons, and from the dry distillation of coal and similar substances. Unsaturated hydrocarbons are those which combine with other elements by addition, while saturated hydrocarbons only combine by substitution. Of the former type are the olefine series, while the saturated type are represented by the paraffins or fatty hydrocarbons.

Hydrocephalus dition popularly known as water on the brain. It is due to an inflammatory condition of the membranes surrounding the brain causing an accumulation of serous fluid in the brain cavities or it may be congenital and developed during nterine life It is characterised by enlargement of the head accompanied often by mental deficiency.

Hydrochloric Acid Aqueous solugaseous compound hydrogen chloride (HCl) It was formerly called muriatle acid. It has long been known and at the present day enters into a number of industrial processes It is prepared by heating common salt with sulphuric acid, the gas being collected in water, and on a commercial scale the acid forms a by-product of soda-ash manufacture. The crude impure acid is often termed spirits of salt and is used for cleaning metal work.

Hydrocyanic Acid Highly poisonous acid, also known as prussic acid It is found in combination with other substances in bitter almonds and laurel leaves Its chemical formula is HCN, and with bases it forms a series of salts known as cyanides The acid is prepared by the distillation of potassium ferro-cyanide with sulphuric acid It is very volatile and has a characteristic smell of bitter almonds Its poisonous action is very rapid, causing death even in dilute solutions

Hydrogen Lightest known gaseous element. It occurs in nature
combined with oxygen, forming water, and
uncombined in small quantities in volcanio
gases Its symbol is H, atomic weight 1 008,
and boiling point -252° C Hydrogen is
colourless, inodorous, tasteless and inflammable
burning with a non-luminous flame It is made
commercially by the electrolytic decomposition
of water or other methods, and is used for
inflating airships, for the bardening of oils, and
in the production of the oxy-hydrogen flame.

Hydrogenation Industrial term for adding hydrogen in cortain chemical processes by the use of catalysts which enable hydrogen to enter certain compounds not already "saturated" as regardathat element. It is used in the "hardening" of vegetable oils producing solid fats which can be used as substitutes for animal fats, in the production of synthetic nitrogenous fertilisers and in the production of petrol from coal, etc.

Hydrography Section of physical science dealing with the study of the oceans and other surface waters of the earth The charting of the oceans is essential for navigation and for this work a government department is responsible Hydrographical research is concerned also with the sounding of the depths, the distribution of temperature, salinity and many other problems

Hydrokinetics Branch of hydromethatics dealing with water or other liquids in motion, which in its practical application is known as hydraulics (qv) Theoretically the fluids are supposed to be devoid of viscosity or friction, and the laws based upon them are modified to a large extent when dealing with water which possesses viscosity.

Hydrolysis Term used in chemistry place in a substance by the addition of the elements of water An example is in the change from ethyl chloride to ethyl alcohol

Hydromechanics Science dealing with the motion and equilibrium of fluids. It includes hydrostatics hydrodynamics and hydraulics, the branch of engineering dealing with the motion of liquids

Hydromel Drink made of honey and water It was drunk by the Greeks and Romans, and resembled the mead

of the Angle Saxons It was often fermented and flavoured with spices or hops

Hydrometer Instrument used for de termining the relative densities of liquids The usual type consists of a glass or thin metal bulb attached at the top to a graduated stem and below to a small loaded bulb to maintain an upright position in the liquid 1 he hydrometer is floated in the liquid, and the depth to which it sinks is shown on the graduated scale Several scales are in use, chiefly those of Beaumé and Twaddell

Term applied to ap Hydropathic pllances and mothods appertaining to hydropathy (qv) At hydro pathic establishments various forms of baths are used in addition to the usual hot and cold ones, such as hot air and vapour baths for

ones, such as hot air and vapour baths for rheumatic and nervous disorders, also douches medicated and shower baths

Hydropathy System of treatment of disease by means of water applied externally or internally. Although some form of a tor cure was used by the Greeks and Romans the systematic treatment of disease by this mothod did not gain ground until the 15th century in France and the 17th in Lualand. Hot and cold baths cold compresses and packs and the douche bath are external applications in hydropathy while internally hot or cold water are employed. Hydropathy forms a valuable adjunct to ordinary medical treatment, especially in the reduction of high fever, the alleviation of local pain and general inflammatory conditions. pain and general inflammators conditions

Hydrophobia Discass of bacterial order also known as rables. It occurs in certain animals and is bacterial transmi-sible to man While the dog is most liable to the disc we it may occur in cats, In man the disease has horses pigs and cattle horse pigs and cheek. In mind the discass may been combated successfully by the Pasteur Inoculation treatment, in which the bacterial polson is weakened by the introduction into the body of an attenuated virus causing only a mild Ficknes The success of this treatment depends upon the very long incubation period of rables. It is carried out in Paris and at Thomas 8 Hospital London

Hydrophone Instrument devised to detect sounds beneath

the surface at sea. It was invented during the treat War for use against submarines. The terrat War for use against submarines. The receiver of the instrument is placed in the water and the sound waves are transmitted by t flex to earphones worn by the operator a trained listener by this means was able to he if the sound of a submarine a propellers and to distingui h between a British and an

enemy ves el

Hydroplane Type of Bont Commentation to skim over the surface of water when driven at a high speed. The hull is lightly constructed and the bottom is

somewhat ilattened

Hydroscope dock or elepsydra used formerly f - incomming intervals of time by the flow of runnin, water. It consisted of a cylindrical ve cl with a confeal base in which the astuall opting. The vessel was filled with was trulish a stally ed to trickle slowly through the appropriate the falling level being hour by traductions on the side of the Calibde a Li let's a indicated the large of time

Its fundamental law is that a liquid at rest transmits pressure equally in all directions, acting with the same intensity on all surfaces in contact with it and in a direction at right angles to those surfaces This principle is angles to those surfaces. This principle is applied in the action of the piston of a force pump or in the action of the hydraulic press Hydrostatics also deals with pressure upon Hydrostatics also acais with pressure upon submerged surfaces, whether plane, curved or irregular, horizontal or otherwise, also with the problems of buoyancy of a body immersed in a liquid in relation to displacement

Hyeres Town and watering place of

The state of the Mailtenance of the state of the s

and about 3 from the Mediterranean About 5 m to the east is Salins d'Hyères famous for its

Hygieia Goddess of health in Greek Hygieia Goddess of health in Greek Hygieia legend Sho was regarded as the daughter of Aesculapius and was worshipped by the Greeks and Romans She is represented in art with a staff on which is the figure of a ser-pent. Our word hygiene comes from her name

Hygiene Science dealing with the proservation of health personal and public it includes such matters as diet, exercise and other methods of maintaining the normal health of the body Public hygiene is Science dealing with the preconcerned with the problems of suitable water supply, efficient drainage and other matters of sanitation the housing question the provention of infectious diseases inspection of foods and many other questions relating to foods and many other questions relating the health and welfare of the community

There is an Institute of Hygiene at 28 Portland Place, London W 1 The subject is also studied at the London School of Hygiene and Tropical Medicines Endsleigh Gardens,

Euston, London, W 1

Hygrometer Instrument used for the measurement of water vapour in the atmosphere The commonest form consists of two the rmometers placed side by side one having the bulb covered with muslin kept wet by a thread dipping into water and owing to evaporation registering a lower temperature than the dry thermometer

Hyksos Confederation of people, probably syrian Bedouins dominant in ancient Egypt about 1680 1580 BC Josephus states that these so-called shepherd kings ruled for 511 years They were skilled archers and used horsed charlots Their camps at Tell el Y chudlya and elsewhere have been excavated Hylas Figure in Greek mythology He

with Hercules on the expedition of the Argo nauts. He landed and was drawing water from a well when he was drawn into it by the halads and was never seen again

Hymans Paul Belgian statesman He was born in Brussels in 1865 and, having attained distinction as a lawyer, was for a time professor in the University of Berlin, and wrote several books. In 1900 he was elected to the Chamber of Representatives and in 1915 was sent as ambassador to London In 1918 he became Foreign Minister and re pre ented Helgium at the Peaco Conference of 1919 In 1920 he was chosen President of the first as embly of the Lergue of Nations In 1924 25 1927 20 and 1929 31 he served Belgium again as Foreign Minister

Hymen Harriage song of the Greeks the Hymen personified the god of fruitfulness. In Hydrostatics Branch of hydro-Hymen personified the god of fruitfulness. In mechanics dealing with mythology flymen is variously conceived as the truth at retuined the action of forces for of Bacchus and Venus, or of Apollo and a muse In art he is represented as a beautiful ran of the body youth, a torch bearer at nupticuls the case of pers

Hymenoptera Large order of insects Possessing four membranous wings, and mouth parts adapted for ants bees, wasps and gall flues. The head is short and broad, and in most cases there is a deep constriction between the thorax and abdomen. In the female the abdomen is provided with an ovipositor or a sting.

Hymn God Hymns were introduced into Christian worship at an early date and developed from the Psalms The earliest were in Latin and some of these, thanks largely to John Meson Neale, are found in translations in English hymn books, of which one of the best known is the collection known as Hymns Ancient and Modern.

Notable hymn writers include Bernard of Clairvaux, Martin Luther, Charles Wesley, Isaac Watts, George Horbert Milton, Cowper, Newton, Keble, Toplady, Horatius Bonar, Lyte, Newman, Baring Gould, and Rudyard Kipling Useful works on the subject are Julian's Dictionary of Hymnology, and Moor som's Historical Companion to Hymns Ancient and Modern

Hyndman socialist He was born in London, March 7, 1842, the son of a wealthy barrister Educated at Trinity College, Cambridge, he spent some years in journalism and in travel in Australia and America In 1881 he helped to found the Social Democratic Federation and for the next 30 years was a prominent leader of the movement Three times he stood for Parliament, but without success He dled Nov 22, 1921 Hyndman wrote many books advocating his ideas, and also The Record of an Adventurous Lafe, 1911

Hyogo Former capital of Japan In 1886 Kobe (q v)

Hyoscyamine Poisonous alkaloid belladonna and other allied plants. It is an isomer of atropine and consists of minute snow-white odourless crystals, which have the power of dilating the pupil of the eye It is used as a sedative in nervous diseases

Hypatia Female philosopher, mathematician and astronomer She was born in Alexandria about 370 and killed by the mob in 415 because she was thought to have incited the prefect of the city to persecute the Christians Her story forms the subject of a romance by Charles Kingsley

Hyperion Figure in Greek mythology He was one of the Titans and father of Helios, Selene and Eos Keats wrote an unfinished poem called Hyperion

Hypermetropia Condition of the called long sight it is remedied by using convex lenses

Hypersthene Rock-forming mineral composed of silicate of magnesium and iron It is found in certain andesites, dolerites and basalts With labradorite it forms a principal constituent of the rock norite, or hypersthenite, occurring in Scotland and North America It is brownishgreen, brown or black in colour and has a pearly or metalloid lustre

Hypertrophy Excessive growth or enlargement of an or-

gan of the body This may be general, as in the case of persons of abnormal stature, or pertial, when a part of the body is enlarged owing to increased use

owing to increased use
Hypnotics or relieve acute pain Those
in general use are opium and its derivatives
such as morphine and codeine, chloral, sulphonal and its allies trional and tetronal,
also the bromides

Hypnotism Method of inducing a trance-like sleop Usually the subject is asked to look fixedly at a bright object placed at a short distance above the level of the eyes, causing a fatigue of the nerves While in the hypnotic state he responds to suggestions made by the operator, the effects of these suggestions usually remaining after a return to the normal state. The power of suggestion has been utilised successfully in the treatment of nervous disorders, especially insomnia, defects of speech, drug habits and alcoholism

Hypocaust Device for heating baths and houses adopted by the Romans, especially in Britain It consisted of a series of channels or earthenware pipes carried under the floors and in the thickness of the walls to convey hot air from a charcoal furnace In many cases the hypocaust formed a large chamber beneath the floor of a room

Hypochlorite Salt formed by the action of hypochlorous acid upon metallic hydroxides or of chlorine upon cold solutions of alkalis. The most important hypochlorite is bleaching powder, or chloride of lime

Hypochondriasis Morbid conditerised by exaggerated and unfounded anxiety regarding one's state of health Sometimes it accompanies trivial abdominal derangements. It may take the form of an anxiety, neurosis, or be a manifestation of melancholia Treatment necessitates psychological investigation

Hyposulphuric Acid Acid, also c a l 1 e d hydrosulphurous acid, formed by the action of zinc upon dilute sulphurous acid. It is a very unstable yellow liquid having the formula H, SO, and with greater bleaching power than sulphurous acid, a property shared by its salts, the hyposulphites Ordinary hyposulphite of soda or "hypo" is, however, a thiosulphite

Hypsipyle in Greek legend a daughter of Thoas, King of Lemnos When the Lemnian women, who were neglected by their husbands for Thracian slaves, in revenge slew the Lemnian men, Hypsipyle saved her father When the Argonauts arrived sue bore twin sons to Jason, and one of these, Luneus, sent provisions to the Greeks in Troy Hypotenuse Side of a right angled

Hypotenuse Side of a right angled triangle opposite the right angle The square of the length of the hypotenuse is equal to the sum of the squares of the other two sides

Hypsometer instrument for measurmining the temperature of boiling water at a given height. It is used for checking the readings of an aneroid barometer. It consists of a cylindrical vessel in which water is boiled. Above this vessel is a jacketed cylinder to receive the steam, and in the centre is a thermometer.

Hyrax Order of tailless quadrupeds allied to the hoofed mammals Ther

are about the size of a rabbit and have short | fur The toes are padded, not hoofed, and the upper lip, as in some rodents, is cleft They are found in Africa and Asia One species inhabits Arabia and Polestine In the author ised version of the Bible this is called the the revised version calls it, marginally, coney the rock badger (Lev xi)

Hyrcanus Johannes Maccabean ruler of the Jews He succeeded his father, Simon, as high priest and is men tioned in the first book of the Maccabees He was besiered in Jerusalem by Antiochus VII, who conquered him When his overlord died he overran Samaria, destroyed the rival temple on Gerizim, reduced and judaized the Idumacans and consolidated his father s audinace with Rome He then established the dynasty which preceded the Herodian Ho died 105 BC His sons Aristobulus and Alexander and his grandson, Hyrcanus II, bore the title of king

Hyrieus In Greek legend, the reputed King of Hyria near Aulis in Bocotia He employed Agamedes and Tro phonius sons of the neighbouring King of Orchomenos to build him a treasure house, into which they introduced a secret opening to facilitate robbery Hyrieus however, proved too clever for them and the end of both was disastrous

| Market | Market

Hyssop Small perennial aromatic plant (Hyssopus officinalis) with bluish flowers and lance like leaves Though a native of the Mediterranean it is not the hyssop of the Bible, which was probably a species of thymo

Hystaspes Arames and father of Darlus I he lived in the 6th century BC Relinquishing his claims to the Persian throne he was provincial governor of Parthia under Colchestor and serves as its port A third his son, as recorded at Behistun He is some Hythe is a Hampshire village, 6 m. from times confused with the earlier somi legendary Southampton

Bactrian King Vishtaspa, Zoroaster's patron, who figures as Kai Gushtasp in Firdausis Shah Nameh and other mediaeval romances

Functional nervous affection Hysteria involving no recognisable diseased change It may be marked by unre diseased change strained desire for attention and sympathy, convulsive seizures, spasms and contractions, paralyses, partial losses of sensation and derangements simulating various organic diseases It may result from mental or physical shock or be encouraged by hereditary predisposition It is more provalent in Latin than northern races, and occurs in women 20 times oftener than in men Treatment by sympa thetic firmness is more serviceable than drugs

The condition known as Hysterics occurs in per sons of a highly nervous temperament who are sometimes subject to fits of hysterical weeping rage or laughter, or the fit may simulate fainting though the face does not usually become pale nor the pulse feeble. The patient should receive as little encouragement as possible, and may usually be left to recover by herself, though sometimes a sharp reprimand may be sufficient to restore balance Radical

crypt containing a huge collection of human skulls There are two old nospitals, S John and S Bartholomew's Hythe, in the Middle Ages was one of the Cinque Ports The nar bour has become partially blocked The British army school of musketry, which was here for many years, is now the School of Small skulls There are two old hospitals, S John s

ACCHUS Another name of Bacchus, the god of wine It is derived from the policy of rejoioling used by his worshippers

Lambic Verse form based upon Iambic Verse form based upon metrical feet, each containing a short or unaccented and a long or accented syllable Characterising the hexameters of Greek tragedy, it occupies a high place in English poetry Notable examples include Pope's five-syllabled rhymed heroic verse, Shakespeare's unrhymed blank verse, and Tennyson's four-syllabled measure in In Memoriam

In Greek legend one of the Iapetus In Greek legend one of the Titans With the others he was defeated by Zeus and imprisoned in Tartarus Iapetus is also the name of one of Saturn's moons It was discovered in 1671, and takes 79 days to travel round the planet

Iberia Greek name for the peninsula of Europe, now comprising Spain and Portugal, and still designated the Iberian peninsula A range of mountains in Spain is called the Iberian Mountains

Ibex Wild goat of the Alps, also called the steinbok or bouquetin It has long, curved horns and its average measurement is about 41 ft Naturalists recognise allied forms called Himalayan, Arabian and Abyssinian ibex, sportsmen extend the name loosely to Pyrenean, Nilgiri and other wild goats

Ibis Family of slender billed wading birds related to the spoonbills and storks. They have bald, black heads and neeks and are found nearly all over Africa. Allied species live in Japan and Australia. There is a European form which sometimes strays to Britain. The bird is about 30 in long. It was sacred to the Egyptians

Ibn Sa'ud Arabian monarch Born Sa'ud, having recovered Riyadh, the capital of the Neid, from the Turks in 1901, developed the Bedouins from wandering tribes into settled agricultural communities By 1914 he had taken turker territory from the Thyles had taken further territory from the Turks and the balance of the country fell to him as leader of the Wahhabis during and after the Great War He now rules the kingdom of Saudi Arabia (the Hejaz and Nejd) In 1935 an attempt was made to assassinate Ibn Sa'ud and his son, the Crown Prince, at Mecca.

Egyptian general Son of Mahommed Ibrahim Pasha All Pasha, ruler of Egypt, he was born in 1798
Accorded a triumphal entry into Cairo in 1809
on returning from a successful campaign in
Arabia against the Wahhabis, he was successful against the Greeks in 1825 and against the Turks in Syria in 1832, where he remained as governor until European powers intervened.

He died Nov 10, 1848

Ibsen Henrik Norwegian author Born March 20, 1828, he was a son of Knud Ibsen, a merchant His father fell on chemist Soon he began to write, and in 1850 his first play, Catilina, was published By then he was living in Christiania and he was soon

of was chosen to direct the national theatre just of opened at Christiania For these he wrote his releasily plays After a few years there he was in a position, state help being now given to the process of the process him, to travel, and he passed some years abroad, chiefly in Germany In 1891 he re-turned to Norway and he lived there, mainly at Christiania, until his death, May 23, 1906

As a dramatist Ibsen ranks with the greatest Bernard Shaw did much to make him known Master Builder, and When We Dead Awaken.

Icarus Figure in Greek legend He was a son of Daedalus who took him with him on his flight from Crete As they were passing over the sea Icarus fell and was drowned

Solid state of water It is a colourless ICe substance crystallising in the hexagonal system, of which hoar frost, snow and hall are forms. The temperature of C (32° F) is defined as the temperature of melting ice, when saline the temperature of melting ice. in the temperature of meeting ice, when same impurities are present the melting point is lower Water expands when freezing and ice floats on cold water Artifically prepared ice is largely used industrially See REFRIGERATION

Ice Age Period of intense cold occurring after the deposition of the Tertiary beds It was marked by the prevalence of great ice sheets and glaciers over the greater part of Britain and north-west Europe Glaciation spread also to parts of Southern Europe and over the northern area of North America The deposits of this period are boulder clays and tills, including stones and boulders polished and scratched by ice-action There are indications that man was contemporary with the later part of the ice age

Iceberg Mass of ice which has become detached from the ends of great glaciers in the Polar regions Although icebergs in the Arctic are usually of great height, only one ninth of the volume of ice floats above water

Ice Breaker Special type of steamer used for opening a passage for navigation of ice bound waters It is employed particularly in the Baltic Sea, Lake Balkal, and parts of the Arctic Ocean The steel-clad bows slope upwards so as to slide over and crush the ice by the weight of the vessel

Iceland Island in the Atlantic Ocean It lies about 200 m south-east of Greenland and covers 39,709 sq m Much of it is mountainous and a good proportion is covered with snowfields The highest mountain is over 6000 ft high, and there are some active volcances, notable Hekla Iceland is also famous for its hot springs, or geysers In the north-west is a peninsula and on the south are the Vestmanna Islands

Iceland is a sovereign state under the King A union with Denmark grants of Denmark certain privileges to citizens of both countries, but this is only temporary The parliament is called the Althing and is divided into two houses Members of the lower house are elected earning a livelihood by his pen In 1851, having called the Althing and is divided into two taken a keen interest in the theatre, he was houses Members of the lower house are elected made director of one at Bergen, and in 1857 he by all men and women who are over 25 years

orms the executive For local government a wound or ulcer purposes the country is divided into 16 protinces and there are eight municipalities I Chthyolog iccland has a judicial system with a court of appeal in the capital The people are Lutherans there is a university at Reykjavik, the capital

There is neither army nor navy
The inhabitants are chiefly engaged in agriculture and fishing. The chief crop is hay and the fisheries are mainly cod and herring Sheep and horses are kept. There are no rallways, but some good roads. Iceland has a national bank. The money weights and measures are the sum as in Denmark Pop (1930) 108,870

From 930 to 1264 Iceland was an independent republic. In 1263 it came under the rule of the king of Aorway and the two passed together to Denmark in 1381. In 1918, after a long a station, it was granted its present position of i lej endence

Iceland Moss Lichen (celraria islan dantly in Arctic and Antarctic climates and in the higher mountain regions of Britain It. is a brownish or greyish moss like plant and hows about 3 in high It forms a starch used for sight, When boiled to a 1 in and deprive 1 of its litter purgative principle, it is an agree thle foodstuff

Iceni Tribe living in Britain when it was invaded by the Romans Their homes were in Norfolk and Suffolk they revolted were in Norfolk and Suffolk

Ice Pack Mass of broken fragments of ice derived from the disinternation of feebers or floes in the Arctic and Anto-tic Oceans. The pack ice in the Arctic is there enough to prevent navigation except in the Greenland White and Farents cas and near the northern constline.

Ice Plant Annual herb of the fig mark to the Mediterranean region, the Canary Islands and S Africa It is a half hardy dwarf rriller whose fleshy stem and leaves are sprinkled with pellucid watery vesicles simu inting fee granules. In Great Britain it is grown chicily in greenhouses. The Canaries export its ash for glassmaling.

Ichabod Son of Phinebas and grandson of Fil (1 Sam k.) His mother hearing that her husband and father in law were dead, Israel defeated and the ark taken exclaimed as she was giving birth to the child | at the co t of her own life Ichabod the glory is departed from Israel Whittier 8 poem Ichabod as in-pired by the anti-lavery aritation

ichang River and treaty port of China It stands on the Yang tee Ichang nearly 1000 m from its mouth and is 270 m from Henlow Pope (1930) 107 940

Ich Dien Note on the arms of the Prince of Wales It means

I serve and is placed beneath the device of three o truch feathers. It has been borne by the Princes of Wales for some 600 years

Ichneumon Small carnivorous mam of the like It press on snakes and has a parti lity for enwollig a eggs

The lemment is a small insect belonging to the hyper wipters is parasitie in its larval to the hyper wipters is parasitie in its larval to the holy of the lost by the adult in cet

Ichor Word used by the Greeks for the I'm equivalent of blend in human being-

A ministry of three under a president medicine it describes a watery discharge from

Ichthyology Branch of the solonce of zoology, dealing with the study of fishes It is concorned especially with the classification, distribution and habits of living species See Fish

living species See Fish
IChthyosauria order of extinct
ranging from the Upper Tries to the Upper
Cretaceous in many parts of the world Some
were small, others up to 40 ft in length
The fethyosaurius had a fish like body, no
neck, large head with teeth, long tail and paddle like limbs

Icknield Way Early English name for a prohistoric British trackway, over the Berkshire Downs ish trackway, over the Berkshire Downs and Chiltern Hills from Wantage to Dunstable The supposition that it continued into Norfolk lacks oridence Another road system, running lacks ovidence Another road system, running from Stow on the Wold through Liebfield, Alcester and Chesterfield towards Aldborough, was called by earlier antiquaries, Icknield Street

ICOn
Painting or bas roller used in the
Greek Church They depict sacred
subjects
Icons are carried on the person or

may be found on the iconostasis or rood screen. of churches

of churches

ICONOCIAST specifically to one who was hostile to the use of pictures and images in Christian worship as tending to idelatry Violent controversies on this subject arose after the 4th century In 726 the ension emperor, Lee III, began a campaign for over throwing images which Constantine V followed up with a decree The Puritans who destroyed upon of the ornaments of the churches in the many of the ornaments of the churches in the 17th century are sometimes called iconoclasts

Idaho State of the United States In the north west of the country, it covers 83,888 sq m The Rocky Mis enter it. The chief river is the Snake A good deal of the soil is devoted to crops and there is also much mining Large irrigation works have been made to overcome the natural dryness Bolsé is the capital, but there are no large towns The state legislature consists of two houses Two senators and two representatives are sent to Congress Pop (1930) 415,032

Iddesleigh Earl of Finglish politican was born Oct 27, 1818, and educated at Lton and Oxford He entered political life as private secretary to W & Gladstone In 1851 he became a baronet, in 1855 an M P, and in 1859 he was financial secretary to the treasury In 1866 he was president of the board of trade, and in 1867 68 secretary for India In 1874 he v as made chancellor of the exchequer, and in 1876 he succeeded Disnell as leader of the House of Commons In 1880 he left office but he continued to lead the party until 1885 when he was made an earl He had repre-tented North Devon since 1866 He was first lord of the treasury for a short time in 1885, and in 1886 foreign secretary. He resigned inst before his death which took place suddenly in Downing street, Jan 12 1887
Iddeskigh was succeeded by his eldest son who died in 1927. As the latter step Viscount

S Cyres, the historian had predecensed him ho was succeeded by a nephew as third earl. The family seat is Pynes Exeter, and the earl's eldest son is called Viscount S. Cyres.

In Idealism In metaphysics a doctrine that the only real existence

is the idea, the intellectual perception, and that the material substance is dependent upon the idea. The idea may be defined as of England, and although remaining in that the image of an external object formed by the mind. The theory was enunciated by Plato and elaborated by Descartes with his famous dictum, I think, therefore I carst. Adopting this central principle, a school of philosophers arose, among whom Berkeley and Hegel were prominent and they gave the idealistic philosophers. prominent and they gave the idealistic philosophy the dominance which it retained throughout the 19th century Idealism is also used, generally, for a state of perfection

Ides

One of the divisions of the month in the Roman calendar The ides begin

on the 15th of the month in March, May, July and October, and on the 13th in the other

Id10t One deficient in intellect The accepted difference between an idiot and a lunatic is that the idiot is feeble minded at birth, whilst the lunatic becomes so Both, however, are dealt with under the lunacy laws See LUNAUY

Idle River of Nottinghamshire A tributary of the Trent, it uses in Sherwood Forest and flows across the county to West Stockwith on the Lincolnshire border length is 40 m

A district of Bradford is called Idle

Idolatry Worship of images or other objects as representing super-human personalities More advanced than animism and nature worship, it is absent from some primitive cultures,  $e\,g$ , Eskimo In the Old Testament the term denotes the worship of any representation, whether of Jehovah ship of any representation, whether of Jehovah or of the false gods of the non-Jewish world blodern Judaism. Ohristianity and Islam regard as idols all objects of worship, public, family or personal, in polythelatic systems, whether they are the abodes of subsidiary or departed spirits, eg, negro fetishes or Maori images or personalised deities, eg, Vishnu, Siva or religious leaders, eg, Buddha See Image Worship

Idomenéus In Greek legend, the son of Deucalion and Ling of Crete Fighting for the Greeks in the Trojan war, he encountered a storm when returning home, and vowed to sacrifice to Poseidon, if saved, whatever he first met on landing The victim was his own son, on whose death plague visited the island

Idris Figure in Welsh tradition He is believed to have been a king and to have had his seat or throne on the mountain called after him, Cader Idris, in Merionethshire Idyll Originally a short poem pleturing pasteral life. It is now used for a poem written in simple graceful style and dealing with pastoral subjects

Iffley Village of Oxfordshire It is on the Thames, 2 m from Oxford It has a

famous Norman church

Igloo Primitive type of dwelling built by the Eskimos for residence during the winter Usually dome-like in shape, the igloo is constructed with pieces of ice or frozen snow Ignatius Saint and father of the Church He was born in the 1st century AD, but little is known of his life He may have been associated with S John He became Bishop of Antioch, but at some data between Bishop of Antioch, but at some date between 107 and 138 he was taken as a prisoner to Rome Tradition says he was thrown to the lions as a Christian

Ignatius Father Angelican monk and preacher Born at Barking,

theology and all departures from the old-fashioned orthodoxy Ho died Oct 16, 1908

Ignis Fatuus Faintly luminous flame which hovers some times over marshy places or where decomposition of organic matter under water occurs it is popularly called Jack o' Lantern or Will o' the Wisp

Ignorantines Religious order in the Roman Catholic Church It describes the Brothers of the Christian Schools, an order founded at Rheims in 1680. The Brothers take monastic vows, but are not priests. They devote themselves to the education of boys and many schools are under their control. Their headquarters are at Mountrath in Queen's County, Ireland, and one of their largest schools is at Norwood, London. They were called Ignorantines because no theologically educated relief. It describes the Brothers of the Christian because no theologically educated priest could enter their order

Iguana Large family of lizards, mainly Madagascar and Fig. The tropical American I tuberculata, with spiny orest along the back and large dewlap, is an herbivorous tree dweller It is about 6 ft long, and its fiesh and eggs are edible Other iguana-like reptiles are basilisks and horned lizards, the Galapagos

Archipelago has marine forms

Iguanodon Extinct reptile of the remains are found in jurassic and Wealden strata. It ranged in length from 14 to 30 ft, and supported itself on its hind limbs and measure tall libe a length from 14 to 30 ft, massivo tall like a kangaroo The jaws were provided with serrated teeth like those of the iguana

Iguassu River of Brazil It is chiefly in the State of Parana, and flows into the Atlantic Ocean It is noted for its falls, among the finest in the world They are used for generating electric power

Ilchester Market town of Somerset It stands on the Yeo, 5 m from Yeovil, and was the birthplace of Roger Bacon (1214) Ilchester was made a chartered town in the Middle Ages and until 1832 sent two members to Parliament For many years it was the county town of Somerset

corporation was dissolved in 1886 Pop 500
The title of Earl of Richester is borne by
the family of Fox-Strangways The 1st earl was Stephen Fox, MP, a younger son of Sir Stephen Fox, who was created an earl in 1750 and took the additional name of Strangways henry Fox, Lord Holland, was his elder brother and a later earl inherited Holland House, Kensington His seat is Melbury House, Kensington His seat is Meibury House, Dorchester, and his eldest son is called Lord Stavardale

Ile de France Name used at one round Paris It was so called because it was bounded by the Selne and other rivers Later Later to became a province and so it remained until the Revolution The French gave this name to the Mauritius when it was in French posses sion between 1715 and 1815

Ile du Diable Island of French Guiana Forming with two other

small ones the Safety Islands, it lies 27 m off field is the capital, but Chicago is the largest the coast near Cayenne Part of the penal place Other cities are Peoria East S Louis settlement, it is used for the more serious cases

Dreyfus was here for a time

Ilex Large genus of shrubs and trees of in both hemispheres especially in S America The most important economically is I para quayiensis which yields mate, or Paraguay tea of which much is exported. The common bolly is I unifolium, others in cultivation are the inherry and winterberry of N America and several from Japan See HOLM OAK

Ilford Borough of Essex Part of Greater London, it is 8 m from the city S Mary's Hospital, founded as a leper house was later an almshouse Hford was made a Parliament. Photographic materials are manufactured here Pop (1931) 131 046

Ilfracombe Watering place market district for the British Channel 225 m trading place there are also manufactures from London and 12 from Barnstaple, and is trading place there are also manufactures for the beautiful scenery around Capston Hill and Lantern Hill overlook the town or designs. In the early Middle Vers Trickles Town 18 for the Poom by Home Water Company or designs. In the early Middle Vers Trickles Town 18 for the Poom by Home Water Company or designs. In the early Middle Vers Trickles Town 18 for the Poom by Home Water Company of the town of Portugal were illiterate that well over of Nigoria it is 250 m trading place there are also manufactures Pop 73,000

Town 18 for instance, it was stated of Portugal were illiterate that well over of Nigoria it is 250 m trading place there are also manufactures Pop 73,000

Town 18 for instance, it was stated of Portugal were illiterate that well over of Nigoria it is 250 m trading place there are also manufactures Pop 73,000

Town 18 for instance, it was stated of Portugal were illiterate that well over of Nigoria it is 250 m trading place there are also manufactures Pop 73,000

Town 18 for instance, it was stated of Portugal were illiterate that well over of Nigoria it is 250 m trading place there are also manufactures Pop 73,000

Town 20 for the Nigoria it is 250 m trading place there are also manufactures Pop 73,000

Town 20 for instance, it was stated of Portugal were illiterate that the pop 18 for instance, it was stated of Portugal were illiterate that the pop 18 for instance, it was stated of Portugal were illiterate that the pop 18 for instance, it was stated of Portugal were illiterate that the pop 18 for instance, it was stated of Portugal were illiterate that the pop 18 for instance, it was stated to pop 18 for instance, it was stated the pop 18 for instance, it was stated to pop 18 for instance, it was stated to pop 18 for

Iliad The Poem by Homer It deals with 10th and last year of the slege of Troy, of Illum, by the Greeks it begins with the wrath of Achilles who refuses to take any further part in the fighting Led by Hector the Trojans are successful until Achilles change. his mind and again enters the field. The Illad illustration is a means of explaining in 24 books and there are many biglish Illustration is a means of explaining translations

Ilkeston Borough of Derbyshire It is from Derby on the LMS and LNE Rise

Lace and hostery are manufactured and there are coal mines. It was made a borough in 1887. Pop (1931) 32 809.

IIkley Urban district and watering place of Yorkshire. It is on the Wharf. 16 m from Leeds on the LMS and LMI. Rilys It is visited for its mineral springs; and also for the surrounding scenery Beauty spots near include Wharfedale and Bolton

Illawarra District of New South Wales It lies along the coast, about 40 m to the south of Sidney and is a fertile area given over largely to dairy farming. A province of Higria was not formed until A D 9 naroou connected by a channel with the sea After the fall of the western empire the name in he district are two urban centres. North Hawarra (Pep 7000) and Central Illawarra province of Illyria in Austria

In Fig. and it is now possible as has long been the easo in Scotland for children to be made Latitude by the subsequent marriage of the latitude.

place Other cities are Peeria East S Louis and Rockford Its rivers are the Mississippi, Ohio, Illinois and Wabash and the land is very fertile Coal is the chief mineral produced. It sends two senators and 27 representatives to Congress Illinois became a state of the union in 1818, and is sometimes called the prairie state Pop (1931) 7,630,654 The river after which the state is named is a tributary of the Mississippi

Illiteracy Condition of ignorance, gener The spread of education has almost abolished illiteracy in Great Britain, France, Gormany and North America, but there is still a good deal in the southern and eastern countries of Europe, also in Asia, Africa, and South America In 1931, for instance, it was stated that well over 50 per cent of the inhabitants of Portugal were illiterate

Illumination Term applied in art to manuscripts or books by miniature paintings or designs. In the early Middle Ages, missais, gospels, and other manuscripts were enriched by Illuminated initials usually in gold, purple and red, in addition to designs or small groupings of figures of men or animals forming ings of figures of men or animals forming marginal scrolls to the page The invention of printing with its mechanical multiplication of copies, however, brought the golden age of illumination to a close

or rendering clear a statement made
In art the illustration of written or printed
matter takes the form of pictures, diagrams, photographs, or in the older manuscripts by Illumination

Illustration of books by woodcuts dates from the end of the 14th century, and line engraving on copper and other metals followed in the first part of the next century Steel engraving lested until the middle of the 19th experts with a present of the 19th wood. century, when this process along with wood cuts was superseded gradually by the modern

Abbey Pop (1931) 9721

Abbey Pop (1931) 9721

Illampu Mountain of Bolivia It is 60 m

Lake Tiricaca The highest point of the castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia, Horzo castern Cordillers the height of its chief peak the district now known as Bosnia and Montenegro and the height of its chief peak the district now known as Bosnia and Montenegro castern Cordillers the height of the district now known as Bosnia and Montenegro castern Cordillers the height of the district now known as Bosnia and Montenegro castern Cordillers the height of the district now known as Bosnia and Montenegro caste inhabited by a warlike race, who for a few years were under the kings of Macedon 229 BC the Romans conquered them and in 168 included their land in the 1 mpire but the

Illegitimacy Opposite of legitimacy it is generally used for metal titanium. It contains from and titanium oxides in varying proportions and occurs as in the statistics of differ times the principal ore of the metal titanium. It contains from and titanium oxides in varying proportions and occurs as in the statistics of differ times are in the statistics. black sand it is found in No Zealand

Institute by the subsequent marriage of the larents. See Light Mach. See Light

Image Term used in optics for the optical counterpart or picture of an object produced by reflection from a mirror or by refraction by a lens. An image may be either real or virtual. In the former case rays of light come from the points of the image, while in a virtual image they only appear to

Image Worship Homage rendered in pictorial or other representations of sacred persons or things The Roman Catholic Church permits the veneration of images of Christ, the Virgin Mary, and the saints The Orthodox Eastern Church applies the same principle to icons and pictures Protestants to-day are inclined to recognise representative art where no idolatrous intention is involved. The Jews and Mohammedans exclude it altogether See ICONOCLABI

Final adult stage in the meta-Imago Final adult stage in the meta-morphosis of an insect. The imago is provided usually with wings and its

life is devoted to reproduction

Imam Arabic word for guide It was employed for various Mohammedan princes, such as the early caliphs, and is still used for the Imam of Yemen, the 12 leaders of the Shiah sect and the four great doctors It applies also to the of the orthodox sects person who leads the Friday prayers in the mosque

Scaport of Japan. It is 35 m lmari from Nagasaki and is chiefly famous because it gives its name to a kind of porcelain This was made in the 17th century and wa-taken by Dutch traders to Europe On it were painted designs in blue, red and gold

Imbros Island of Greece It is in the Aegean Sea, near the entrance to the Dardanelles It covers about 100 sq m and the chief town is Castro The island was long a Turkish possession, but was assigned to Greece in 1920, and restored (demilitarised) to Turkey by the Treaty of Lausanne (1923) Pop 10,000

Conception Immaculate

Dogma that the Virgin Mary was conceived without original sin S Bernard repudiated the sinless view in 1131, and Duns Scotus and the Franciscans maintained it, 1307 and the Franciscans maintained it, 1307
Aquinas and the Dominicans took the contrary
view The Council of Trent left it unsettled,
but Pope Pins IX declared it a dogma of
faith in 1854 The Roman Catholic Church
celebrates the feast of the Immaculate Conception on Dec S, the Lastern Church, rejecting the Western dogma, celebrates the Conception of S Anne the Vigin's mother ception of S Anne, the Virgin's mother, Dec 9

Pantheistic theory that Immanence the creative and intelligent power of the universe is indwelling within the universe itself and not above or beyond it.

Immanuel Hobrew proper name meaning God is with us. It was given to a child foretold in prophecy (Is vii), and was applied to the child Jesus (Matt. 1) A variant spelling is Emmanuel

Immigration Entrance of people into another country for the purpose of settling there, it is thus the opposite of emigration There was a great deal of immigration into the North American continent

keeping out the coloured races whose standard of living was lower than that of the white man Australia, Canada and the United States took steps to restrict the number of coloured immigrants, these amounting in coloured immigrants, these amous some cases to almost total exclusion.

The difficulty of finding employment was one of the reasons that led certain countries to restrict the immigration of the white races, and now almost every country takes measures to keep out all who are considered undesirable,

to keep out all who are considered undesirable, either on grounds of poverty or disease. The restrictions in the different countries vary, but, in general, intending immigrants must possess a certain amount of money, pass a medical test and also prove literacy. Since 1921 the United States has had a system of quotas in its immigration policy. Each year a quota, based on the number already in the country, is fixed for each nation. Provided they pass the tests immigrants up to that number are allowed to enter, but as to that number are allowed to enter, but as soon as it is reached immigration from that particular country is stopped for the year The number allowed varies In 1929, for The number allowed varies In 1929, for instance, it was 65,721 for Great Britain and 25,957 for Germany The figures are, of course, exclusive of those who visit the country for business or pleasure

In Great Britain there were practically no strictions on immigration before 1905, restrictions on immigration before 1905, and a great number of allens, many of very low character, made their homes in the country and were responsible for reducing the standard of life in certain industries and areas In 1905 restrictions were placed on their entry and there is now a branch of the Home Office charged with the duty of keeping out undesirable aliens See Evigention

Immingham Seaport of Lincolnshire It is 5 m from Grimsby, and was made a port in the 20th century, when the Gt Central Rly built docks here These cover 56 acres and belong to the L N E Pop 2700

line Much coal is shipped Pop 2700
Immortality Condition or quality of being exempt from death or annihilation Confidence in the continuance of human existence beyond the grave is almost universal, and is traccable to primeval man. It is incapable of proof, but speculation has endeavoured throughout human history to pierce the veil The panthelstic view of pierce the veil reabsorption in the universal life, as through the Buddhist nirvana, and the positivist view of corporate rather than individual survival, do not satisfy those who regard do not satisfy those who regard ty as essentially involving perimmortality

petuation of the personal consciousness
This idea of personal immortality finds support in the aspirations of the human mind in its capacity to project itself beyond the present life and time, and in the belief that the purpose of the created universe cannot be fulfilled without it. fulfilled without it On the other hand science gives no credence whatever to the idea, although it does not rule out some kind of corporate it does not rule out some kind of corporate immortality, of an absorption into an eternal and omnipresent mind spiritualism, it must be said, has not thrown much light on the question. The Christian doctrine looks for fellowship with the Eternal through the resurrection of Jesus Christ.

Immunity of resistance in the hodies.

Immunity of resistance in the bodies in the 19th century, but towards the end of that period steps were taken to restrict it. The restrictions were at first directed to the blood develops anti-toxins which neutralise the bacterial toxin, immune bodies which This immunity is either destroy microbes, and leucocytes which devour and a staff Since 1925 the Imperial Mineral the germs. Vaccination and inoculation are Resources Bureau has been incorporated with methods adopted to acquire immunity

Impaing in heraldry to place two coats of arms on one shield. They are usually placed, or marshalled side by side. The chief occasions for impaling arms were marriages

Impeachment In Great Britain a pro of Commons before the House of Lords as the supreme court of law It is now practically obsolete but the power to impeach remains

Impeachment was confined to persons of rank who had committed an offence against the state The first recorded impeachment was that of Lord Latimer in 1476 the most famous that of Warren Hastings The last case was in 1806 when Henry Dundas Viscount Melvillo, was impeached The United States has a similar form of procedure the House of Repre sentatives prosecuting before the Senate

Imperial College of Science and Edu cational centre at South Kensington London It dates from 1907 and consists of the Royal College of Science the Royal School of Mines and the City Coulds of Mines and the City Coulds of Mines and the City Guilds (I nameering) College It has a strong staff of professors and lecturors and its equipment is of the most modern kind. It is a school of the university of London

Imperial Conference Representa tives of the various self governing parts of the British Lumpte. The first was held in 1887, and for some time these were called Colonial Contennees. Since 1017 (xcept for the war years they have been held every four years the lest being in 1930. The conferences are held in London the secretary for the Dominions being chairman They are attended usually by the premiers and other ministers of state In addition to these meetings conferences on particular subjects eg defence and economics an held from time to time

Economic Imperial Com-British government committee ance with proposals at the Imperial Feonomic conference 1923 and continuing from one conference until the next its duties are to investigate the development and marketing of empire produce suitable for the British market. The I impire Marketing Board was founded as

its executive body

Imperial Defence Before of the in time of war. The necessity of franking some joint policy for the defence of the British I make held to the or the defence of the British. I inpire led to the a sociation of the Dominions with the mother country in consultation and centre action. The matter was dieus ad at imperial imperial conferences and a committee of impetial dieus was set up in London. This is con I ordon macun

Imperial Institute Building In Imperial Institute South Kensing and other models for soff art photographs ton London. A fin edifice in the Remarkance of triuts books and pamphicis. The account of it is a creeked to mark the jubble or collection is in the Science Museum. ton 1 ondon. A fin edition in the Remarkane of this books and pump acts. The actor are the second of the second of the second in 18 of and in 1809 is cause the property of the factor in the second in 1809 is cause the property of the factor in the land of the second o

The work of the institute is to make known the products of the various parts of the Empire and to conduct researches into their respective uses and values Part of the building is the temporary headquarters of the university of London

Imperial Preference British politico economic conception. The movement began in Canada, where in 1898 the administration of Sir W. Laurier (10) abandoned general re ciprocity in trade for a policy of British preference in the granting of tariff concessions. Development of this policy which was implemented at the Imperial Conference of 1808, bed mented at the Imperial Conference of 1902, had been slow pending the change (1931 32) in the British fiscal system from free trade to protec tion Some progress was made, however, during the Great War, and British preferences were enlarged under the Safeguarding of Industries Act, 1921 Apart from primary foodstuffs, motor cars of Canadian manufacture for instance enjoyed preferential rates, while under the Safe uarding Act of 1925 imperial preference vas attached to such products as cutlery, silver and silk, the Dominions meanwhile continuing to enlarge the preferential range

Imperial preference should not be confused with Empire Free Tade, a political slogan introduced in 1930, expressing an ultimate aim, but ignoring the immediate need of the Dominions to protect their growing industries -a consideration which tends to limit the indefinite expansion of imperial preference

Term used for the move Imperialism Term used for the more ment that aims at the strengthening of the British I mpire. It was much used towards the close of the 19th century, It was its opposite being Little Englander Beaconsfield was regarded as a great imperialist. Sir I R Seeley helped the movement by writing The Expansion of England Its Its opponents regard imperialism as involving augression and, perhaps injustice towards weaker peoples

Order Imperial Service

British decoration given to members of the civil service It was established in 1902 and enlarged in 1912. It is given to members of the omaged in 1912. It is given to incliners of the administrative and chical branches of the civil service. The number of members must not exceed 700. Of these 250 are for the home services, 250 for the services of the Dominions colonies and protectorates and 200 for the Indian services, the 200 are divided into 100 for hypogeness and 100 for hypogeness and 100 for hypogeness and 100 for hypogeness. into 100 for Europeans and 100 for Indians The ribbon of the order is crimson with a blue

War Museum I ordon museum. It was opened at the Crystal defect was set up in London. This is con a non-in museum it was opened at the Crystal country with the activities of the three prins I lake in 1920 and was removed to its present country in the country eqlifa noldanama bas earn flems nance

INCEST

officials at the ports of entry and figures are issued from time to time giving the totals Most countries levy duties on imported goods Imports may be divided into manufactured

goods, raw materials and foodstuffs In Great goods, raw materials and foodstuns. In Great Britain the value of the imports is always considerably greater than the value of the exports. The difference is the balance of trade as it is called. This is paid by invisible exports, such as shipping dues and insurance charges, whilst part of it consists of goods, which are in effect interest on money lent abroad

Nearly all countries tax imports, Great Britain joining the number in 1932 with taxes on certain manufactured goods and foodstuffs. See Balance of Trade, Tariff

Imposition Something placed on a often used for a tax especially a tax that is regarded as unjust Duties on certain imports levied by James I in 1606 were called impositions, and were resisted by a merchant called Bate and others In 1610 Parliament declared impositions illegal.

The word is also used for a task given to a schoolboy, as a punishment, as well as in

printing

Impostor
Something by pretending he is someone else There are historical impostors such as Perkin Warbeck (died 1499) and those who pretended to be the son of Louis XVI of France More recent impostors are the German who called himself the captain of Kopenick and De Rougemont Another class of impostor consists of those who pass off the writings of others as their own

Impotence Lack of power It is usually applied in cases where husband or wife is unable to consummate a marriage In English law a marriage can be

annulled if impotence is proved

Impressionism Modern school of painting It originated in France in the latter part of the 19th century, and is associated with the names of Edouard Manet and Claude Monet. Other painters of this school were Boudin, Degas, Renoir, Pissaro, Morisot, Cézanne and Sisley. The Impressionists claimed freedom from all artistic tradition with its conventional methods. artistic tradition with its conventional methods of lighting and composition, and they attempted to portray the truth of their impressions of nature by the use of pure colour and luminosity They used pure primary colours and obtained their effects by placing small spots of colour side by side Exhibitions of impressionist paintings were held in Paris in 1867, and in London in 1882 and 1889

Imprisonment Detention in a gaol, of prison, for an offence against the law In English law there are three kinds of imprisonment. Penal servitude is a punishment for serious offences and may be for life, which in practice is 20 years Imprisonment with hard labour is for less serious offences, it cannot exceed 10 years Ordinary imprisonment for minor offences is of three kinds. The person sentenced may be a first, second or third division prisoners. nave an easier term than ordinary prisoners

In-Breeding Method of breeding by mating nearly related subjects It is contrasted with line breeding, in which individuals mated are within a single line of descent, and with out-breeding, or the

mating of unrelated subjects In-breeding is resorted to in order to establish or fix certain desired characters, although it involves ulti-mately certain disadvantages such as deterioradiminished resistance to disease, and tion. sterility

Name meaning a member of the ruling class in Peru in the 13-16th Inca centuries, but applied more generally to their wonderful civilisation The Inca Empire, The Inca Empire, covered the modern wonderful civilisation The Inca Empire, created about 1230, covered the modern Peru and part of Bolivia and Chile, an area 2000 m long and some 500 wide Its capital was Cuzco It lasted until 1533 when Pizarro overthrew it Its history has been recorded by a Spaniard, Garcilaso de la Vaga

The remains of the Inca civilisation are very wonderful They include the ruins of palaces and temples as well as statues and

palaces and temples, as well as statues and sculptured decorations. The Incas made good roads and had considerable knowledge of agriculture They prigated and manured the soil, and their social and economic life was far from primitive They worshipped the sun.

Incantation Form of words of supposed gold supernatural power, chanted or intoned ceremonially Incantations are common to all primitive beliefs. The earliest known examples are Babylonian, the best known survivals occur in folk song and jingles used as charms

Incarnation (Latin caro, flesh) Act but specifically the assumption by the Godhead of human form and nature in the person of Jesus Christ. Our Lord's own claims, S Paul's association of His grace with God's love and the Spirit's fellowship, and S John's view that the Word coexisted with God The early church sought to define this mystery in the Nicene creed, and alternative views gave rise to heresies Modernist thought urges that in becoming flesh the Incarnate Son accepted human limitations, and does not regard belief in that event as necessarily involving the acceptance of a miraculous birth

Ince-in-Makerfield Urban trict and market town of Lancashire It is 204 m from London by the L MS Rly, and is near Wigan There are coal mines, and cotton mills, and railway stock is manufactured The county division of Ince returns a member to Parliament Pop (1931) 21,763 ment

There is another Ince in Cheshire village 7 m from Chester. Pop 330

Incense Blend of sweet smelling spices burned in a thurible and symbolic of ascending prayer. It is generally used in the Roman Catholic Church, but only by a few high churchmen in the Church of England. It is chiefly made from frankincense, myrrh and benzoin

Incest Intercourse between persons so closely related that they are debarred from contracting legal marriage An Act of 1908 made it a misdemeanour for a male Act of 1908 made it a misdemeanour for a male to have intercourse, or attempt to procure it. with his mother, sister, daughter or grand daughter The terms "brother" and "sister" include also a half-brother or half sister whether in wedlock or not The penalties are penal servitude for 3 to 7 years, or imprison ment up to 2 years A female over 16 who, knowing the relationship, permits such intercourse, is liable to like penalties.

many races and speaks many languages Two hundred and twenty two of these have two numered and twenty two of these have been recognised and they are grouped into seven families —Western Hindi, Bengali, Telugu, Marathi, Tamil, Punjabi and Rajas thani Hindustani is the literary language, and perhaps 3 000,000 people speak English In religion the Hindus are the most numerous, about 239,190 140 (1931) the Mohammedans number about 77,677 545, and there are 12,786 806 Buddhists Many of the inhabitants are gathered in the great cities of which the largest are Calcutta and Bombay Other populous centres are Madras, Hyderabad, Rangoon, Delhi, Lahore, Abmedabad Luchow, Bangalore Karachi, Amritsar, Cawapore and Poona The caste system provails and is still strong

The most convenient division of India is into British provinces and native states which retain a certain amount of independence but are under British protection. The former cover 1 318,346 sq. m. The largest province is Burma, which in some ways stands apart from India and which it is proposed to separate from it. Next comes Madrus, one of three old presidencies of British India, and the third is another presidency. Bombay The United Provinces of Agra and Outh the Punjah, and the Central Provinces and Borar are all about the same size Next in area are Bihar and Orissa, Bengal Assam and Baluchistan, while much smaller are the North West While much smaller are the North West Frontier provinces Ajmer Merwara and Coorg The Andaman and Nicobar Islands form a province and another is Delhi the capital of the empire Bombay it may be said, includes Sind and Aden The larger provinces are under Lovernors the smaller ones under chief com missioners

The native states of which there are some hundreds, cover 490 333 sq m Each with its own ruler the largest are Hyderabad Kashmir, Mysore Gwallor and Baroda the others are

grouped together into agencies.

India is governed by a Governor General, or Vicero, who is responsible to the Secretary of State for India in London. He is assisted by a legislature of two houses. One of these Is the Council of State and the other is an elected legislative assembly which was created in 1921. In addition, under the important scheme of 1919 there are legislative councils in the provinces the members of these being partly elected and partly official the former in a

majority

The actual work of the government is controlled by the viceroys executive council and by executive councils in the various provinces. Let member of the central executive council has charge of a department of state and its duties are discharged all over the land by members of the Indian Civil Service. To discuss the affairs of the native states there is a chamber of princes and it idents representing the central government at their courts. In London there is a council of India to advise the Secretary of State. It consists of 12 members and two must be natives of india. There is also a high commissioner with micros at India House, Aldwych, a fine The actual work of the government is con with or ces at India House, Aldwych, a fine building opened in 1930

Accounting is the main industry of the Indian records though many are employed Indian people though many are employed in the ancient crafts and an increasing number in manufa tures especially of cotton. Hice wheat and cotton are the chief crops, others are ture and sugar. Coal and oil are produced, as are moderate quantities of gold and silver.

Vast areas are still under forest and to look after these there is an Indian Forest Service

The country has a fairly good railway The country has a fairly good railway system and several large seaports. The unit of currency is the rupce worth about 1s 6d. The chief bank is the Imperial Bank of India For defence there is an Indian army largely officered by Britishers and British regiments, about 70 000 strong, are stationed in the country. There is also an air force and a nary and a civil police of some 200 000 men. A civil police of some 200 000 men keeps

HISTORY India was conquered, in part at least by the Greeks and the Soythians before the Mohammedans began a series of invasions about 1000 For about 300 years this continued and in time they reached the Deccan In 1308 and in time they reached the Decean In 1305 the land was wasted by Tamerlane, and in 1526 the great Mogul empire was founded After a period of great glory this declined in the 18th century when part of the land was conquered by Persia and the Mahratta kingdom

bocame independent in the south

At the end of the 15th century the Portu

guese began to trade with India and soon had

settlements there. The Dutch French and English followed their example and each formed a company for this purpose, the English Last India Company dating from 1600 The wars of the 18th century, and other causes gave the supremucy to the English Company The English made extensive conquests in India and before 1850 much of the peninsula was under their control

After the Mutiny of 1857 (q v) the system of After the affutiny of 1857 (q v) the system of governing India which, with certain alterations, exists to day, was established. The East India Company was abolished and its territories placed directly under the crown. In 1877 Queen Victoria was made Empress of India, and for many years the defence of the Indian Irontier, which led to a war with Afghanistan 1878 70 and to many smaller expeditions 1878 70 and to many smaller expeditions was one of the main concerns of British policy. Indian troops fought for the Allies in the Great War, especially in Mesopotamia and East Africa

In the 20th century a serious agitation for independence for India began. After the Great War there were some unpleasant in clients and Gandhi the most prominent native instituted a boycott of British goods, and took other steps to undermine British rule. But before this, to meet the Indian demands the British government made certain demands, the British government made certain changes Indians were given a greater share in the government of their country and in 1922 the Government of India Act established a representative body in the legislature In 1927 a royal commission under Sir John Simon was appointed to report upon the whole question of the future government of India In 1930 the recommendations of this body were published, one being the separation of Burna Another proposal was the extension of the franchise to include 6 600 000 women

The Round Table Conference met in London The Round Table Conference met in London (1930-33) and decided upon a federal organisation for India and a committee drafted a federal constitution. The Government proposals for constitutional reform were issued in a White Paper in March, 1933—In 1935 an Act was passed embodying these proposals viz. an All India Federation with provincial autonomy—the reparation of Burma—and the dissociation of Aden from India.

discontinuo of Aden from In lia
Indiana State of the United States
In the centre of the countr
it lies south of Lake Michigan and covers

from Cincinnati and is an important railway centre The industries are chiefly connected with the provision of food Pop (1930) 364,161

Indian Civil Service Service rice on the work of governing India. It is open to Britishers and Indians alike, and to enter it candidates much be successful in enter it candidates must be successful in a competitive examination held every summer For this the age limits are 21 and 24 The ror this the age limits are 21 and 24. The successful candidates must pass one or two years in study in England; and pass a further examination before they take up an appointment in India. The pay begins at about 2540 a year and candidates can secure high positions as judges and administrators. After 25 years of service a pension of not less than \$10000 a year is given. Full particulars of the £1000 a year is given. Full particulars of the examination can be obtained from the Civil Service Commission, Burlington London, W 1 Gardens.

Indian Ink Ink of an intense black colour used by artists and draughtsmen and sometimes called China ink when made in sticks or cakes It is prepared from lampblack or carbon black mixed with weak glue or other ingredients Ordinary Indian ink is not waterproof, but special waterproof preparations are now made

Indian Millet Cereal grass yielding, extensively grown grain in the Old World. It is derived from sorghum vulgare, and inis derived from sorghum vulgare, and in-numerable varieties produce durra in Egypt and the Sudan, and Guinea and Kaffir corn in Africa Other sorghums yield broom corns and Chinese sugar cane It is indigenous to Asia, but is now grown in North America

Indian Mutiny Revolt agianst Brit 1857-58 It is usually attributed partly to an order stating that in future Bengali soldiers were liable to service overseas, but still more to the act of serving out to the native soldiers cartridges greased with the fat of pigs and cows, the one an unclean and the other a sacred animal

There were, however, other causes of discontent, although those mentioned played their part Western ideas were being intro-duced and native customs suppressed, thus giving rise to vague, but none the less real feelings of disaffection. After some sporadic outbreaks at Barrackpur and elsewhere, the mutiny proper began at Meerut on May 10 There some native regiments murdered their officers with their women and children, marched officers with their women and children, marched to Delhi, 40 m. away, and restored the old Mogul Empire in the person of Bahadur Shah Other centres of revolt were Cawnpore and Lucknow, and at both places British garrisons, aided by some loyal sepoys, were besieged On June 27, Cawnpore surrondered and, in spite of a safe conduct all men, women and children were murdaged by order of and children were murdered by order of Nana Sahib In the residency at Lucknow the British held out

on his way to Cawnpore, which he entered too

36,350 sq. m The chief rivers are the Wabash and the Ohlo, and agriculture is the main industry Indianapolis is the capital and the largest city Others are Fort Wayne, Evansville, South Bend, Terro Haute and Garville, South Bend, Terro Haute and Garville, South Sendstros and 13 representatives to Congress Pop (1930) 3,238,503.

Indiana Dolis City and chief town of Indiana It is 110 m from Cincinnati and is an important railway.

In Cincinnati and is an important railway.

By now Sir Colin Campbell had arrived with reinforcements from Britain He reached Cawnpore, and then with 8000 men relieved the garrison at Lucknow The worst was over, but much remained to be done Campbell spent some time in putting down the revolt bell spent some time in putting down the revolt in Oudh, whilst Sir Hugh Roso dealt with the mutiny farther south, in both areas a tedious guerilla warlare being carried on The capture of Jhansi and Gwallor by Rose in the summer of 1858 marked the end of the major operations. The revolt was confined to Bengal, Oudh and other parts of northern and central India, and, with one or two exceptions, the native rulers remained loyal to Britain

Indian Ocean One of the five great In the southern hemisphere, it stretches from Africa to the East Indies and Australia and in the other direction from Asia to the Antarctic India divides the northern part into two portions

Indian Summer American name for weather in autumn Known in England as S Martin's Summer, it is characterised by calms and absence of rain

Indiarubber Name given to ficus tree growing in the damp forests of northern India, Assam and Burma. It is distinguished by its smooth oblong leathery leaves, a character which has brought it into favour in Great Britain as a decorative pot plant. In Assam large government plantations are established for supplying rubber, which, however is at lower grade them that obtained however, is of lower grade than that obtained from hevea, the source of most commercial rubber See Rubber.

India Office Department of the Britfrom 1858, and is responsible for looking after the affairs of India. Its head is a secretary of the allairs of thotal state, who is assisted by an under socretary and a staff of civil servants. There is also a consultative council. The expenses of the consultative council The expenses of the office are met from Indian funds The office is in Whitehall, London, S W

Indictment in English law a written accusation against a person who is tried by a jury Offences are divided into indictable and non-indictable, the latter being the minor ones In indictable offences the accusation is put in writing and submitted with the evidence to the grand jury for consideration If they consider it proved they return a true bill, or indictment, and the accused goes to trial In Scots law, an indictment is the form under which an accused person is put to trial at the instance of the Lord Advocate

Indies Term used for two districts of the India, the Malay Archipelage and the districts around them The West Indies consists of around them the the coast Cuba, Jamaica and other islands off the coast of Central America. See India, Wist Indies. Inability to digest food o British held out
Sir Henry Havelock fought several battles | IRUISCOLOGIA BEREINGE SEE DYSPERSIA. Indigestion arising from disorder of

Treatment should be mainly preventive-avoidance of foods which usually cause the condition, such as strong tes, fresh white bread, sweet cakes, heavy puddings, some root vege tables (cg turnips), twice-cooked meat, and rich dishes cooked with fat.

A simple, wholesome diet should be adopted with meat once a day at the most, and plenty of fresh, natural foods Three meals are sufficient, and there should be no eating be drunk One or two tumblerfuls of hot water before breakfast and at bedtime will be bene To relieve an attack a pinch of bicar ficial honato of soda in water or a dose of bismuth may be useful in some cases. It is essential that constipation should be relieved, if nocessary, with daily doses of medicinal paradin, and regular exercise in the open air will help to restore the general health

If the condition persists a doctor should be consulted in case there is some underlying cause (See also FLATULENCE, HEAPTBURN)

Indigo Important blue dyestuff It is prepared from several leguminous plants of the genus Indipofera chiefly I incloria and I arrecta, cultivated in India Inva and Natal The sediment from a natery extract of the plant is dried and formed into small cubes of the dyestuff, which is of a deep blue colour with a coppery tinge Natural indigo to a large extent is superseded by the synthetic product, a derivative of naphthalene This gives greater case in manipulation and less cost of production

Indium Rare metallic element having the rombol In and atomic weight 11! 8 It was discovered in 1863 in zine blende and occurs also in other zinc ores and zinc fluo dust Indium is a foft white dutille metal which melts at 15°C, and when heated to redness in air burns with a violet flame

Individualism and economics that opposes the interference of the state in the athers of individuals. It is thus opposed to annies of individuals It is thus opposed to so fallem collectivism and communism Individualism was advocated by Adam Smith Bentham John Stuart Vill and Herbert Spencer and was very strong in the 19th century Towards the end of that century, however it became less popular and to day is almost discredited. Many reasons have con tributed to this one of the most powerful being the impotence of the individual in the f er of the conditions of the modern world s here the tendency is to larger and larger units for production and distribution with the individual becoming more and more a mere cog in the great machine

Name given to a region in Indo-China Aoin that lies between India and China A French possession it consists of Cochin China Cambodia Toughing It covers 285 000 sq m Annam and I acs and is under a governor general. The capital is Hanol. The unit of currency is the plastre and a bank of Indo-China has been established

Indonesia | I thnological term for groups of i-lands in the Indian and l acific occurs. Included are the Java kroup I art of the Malay Leninsula. Borneo, Celeb a the Philippines and the Pacific groups. Modern into if rations in the wetern groups have lesseld to light remains of former inhabitants. stodene remble the present races but are allied to the now inhabiting Australia and

the Pacific groups forming important evidence as to migration and the origin of the races in the latter

Indore State of India, also the name of the capital city The state is in the centre of the country and covers 9670 sq m.

It is ruled by a maharajah Pop 1,318,237
The city of Indore stands on the River
Saraswati near where it is joined by the Khan
It is the seat of the ruler and trades in cotton, corn and other commodities Pop 127,327

Process of thinking Induction logic there are two methods of reasoning, the inductive and the deductive In the former the argument is from a general principle to a particular case, in the latter it is the roverse By induction a man knowing that water will always run downhill, makes his pond at the bottom of a sloping garden. Sec Deduction

In ecclesiastical law the Induction induction formal act of placing a clergyman in possession of a living It is usually done by the bishop and until the ceremony is performed the clergyman is not legally entitled

to the revenues of his office

Induction Term used in electricity for the electrifying or magnetis ing of a neutral body by an electrified or magnetic that the electricity is a second transfer of the electricity for the electricity of the electricity of the electricity of the electricity of the electricity for the elect tised body in the vicinity In electro magnetic induction a current is generated in a conductor by varying the surrounding magnetic field

An induction coll consists essentially of a soft iron core surrounded by a primary coll of short thick wire and an outer coll of long thin wire A magnetic field is formed in the core by a current passing through the primary coll and by continuous interruptions or changes of direction of flow of this current induced currents are set up in the outer coll

Indulgence Concession or power to do something It is chiefly used in the Roman Catholic Church for a remission from punishment for sin Indul gences were first used to free penitents from punishment in this life, but later they were given by the Pope to free them from punish ment hereafter. The theory was that there was an inexhaustible fund of grace upon which the Pope could draw for the benefit of those in purgatory Indulgences, which are either plenary or partial are still given by the Pope The selling of indulgences in Germany to obtain appear to solve the Pope are solved. money to rebuild S Peters, Rome was one of the rassons why Luther in 1517 attacked the Church of Rome and started the Reformation James II of England caused Irritation by issuing declarations of indulgence to relieve Roman Catholics and Nonconformists from the penalties attached to their religion

Indus River of India It rises in the Huminyas in Tibet, at a height of 18 000 ft. Flowing NW, through the Knshmir gorges, it turns SW mear Bunji, receives the Eabul River near Attock and collects the Punjabl streams at Mitignlot below which it travers a the plain of Sind to its delta on the Arabian Sea. The fail to Attock 900 ft about sea level below which it is navigable, causes flooding, but the extent of this has been reduced by a dam and vast irrication works. The length of the river is 1800 m and its drainage area is 372 000 sq m. Its waters are used for the world's largest. Its waters are used for the world's largest irrigation system consisting of the Lloyd Barrige at Sukkur and seven canals

Industrial Court British Govern

disputes between employers and employed disputes between employers and employed its headquarters are at 5 Old Palace Yard, Westminster, S W 1 Disputes referred to it are decided by a court which is composed of repre-sentatives of both classes with an independent chairman To constitute these courts there are panels of employers, employed and neutrals, from which a court can be formed

An industrial council is a council of employers and employed which exists to deal with trade disputes They are found in many industries and are usually known as Whitley councils

Industrial Disease in Great Britain arises from the condition of one's occupation Miners and those who handle wool, hair and other commodities are among those subject to these diseases Workers with lead, mercury, arsenic and other substances are sometimes poisoned and workers in certain chemicals are liable to injury of one kind or other A list of industrial diseases has been drawn up by the Home Office, and those suffering from one of them can claim componsation under the Workmen's Compensation

Industrial Psychology Branch of psychology which investigates the behaviour of workers It deals with the special psychological problems involved in modern industrial employment. Among matters that come under review are hours and conditions of labour, pauses for rest, meal times, monotony, fatigue onset, etc. A section deals with vocational tests designed to aid the selection of suitable workers for particular tasks There is a chair of Industrial Medical Psychology in London University

Industrialism Word used for the system of industry in force to day, the production of goods in factories and works on a large scale. It is the opposite of the older system by which goods were produced by men working in their own homes, or in small workshops. Many modern evils are put down to industrialism, and some of the charges brought engine it are adoubtless. of the charges brought against it are doubtless true but it appears an inevitable development in the modern world Indeed, it shows signs of spreading from the countries of the west, where it has been developed, to the countries of the east, where for centuries an entirely different system has provailed

## Industrial Revolution

Phrase used for the change that came over industry in Great Britain in the 18th and early 19th century It was marked by the substitution of steam for hand labour and by the building of factories for the manufacturing processes ing of factories for the manufacturing processes that were previously done in the homes. It is associated with the inventions of Arkwright, Hargreaves and others, and received a great impetus when the steam engine was invented. It may be said to have began about 1750 and to have been completed by 1850.

Industrial School Institution for the training of children who are unruly A boy or girl can be sent to one of these by a magistrate, but he or she must not remain therein after the age of 16 They are called industrial schools because the inmates are taught trades

Inebriate Word used for a habitual drunkard In Great Britain such persons can be put under control and there

It was set up in 1919 to deal with are institutions in which they are received These must be licensed and are inspected by officials of the Home Office. To be put under restraint an inebriate must be certified by two medical men There are associations for the care of inebriates, and one for the study of inebriety

In physics, the inherent property of matter of retaining its state of of matter of recenting its same of rest or of uniform motion in a straight line unless acted upon externally Rotational inertia, or moment of inertia, is the sum of the products obtained by multiplying each element of mass by its squared distance from the axis The centre of inertia is the centre of gravity or mass Electric inertia is that superinduced by an electric charge

Infallibility Inability to do wrong It is chiefly used in ecclesiastical matters Many Christians have held, and some do hold, that the Bible, or the Church, or both, are infallible. This arises from the belief that both are of divine origin and that the Church is maded by the Church of the control of the that the Church is guided by the Holy Spirit In 1870 the doctrine of papal infallibility was declared by a council of the Roman Catholic Church

Infant Person under 21 years of age In English law an infant is under certain disabilities He or she cannot bring an action at law, but must sue, if and when it is necessary, through a next friend A tradesman who supplies an infant with necessities can obtain payment, but he cannot do so if he supplies luxuries to an infant The court will decide what are luxuries, having regard to the position of the infant. An infant cannot enter into a contract

The murder of young children is known as infanticide At one time, to deal with the surplus population, it was much practised in India Certain primitive peoples, both in the ancient and the modern world, have resorted to it, either for the same reason, or to rid the community of weaklings

Infant Mortality Term used for the death rate among children under one year old At one time this was terribly high, but in the 19th century civilised countries took steps to reduce it and it has been enormously reduced. The steps taken include the provision of milk and nurses, the isolation of infectious cases, better housing, greater cleanliness, and in general all that makes for a higher standard of hving The rate varies very much between various districts, and it is still much too high where housing conditions are bad

Infantry Word used for foot soldiers Ever since organised warfare began the infantry have been the most numer-ous and the most important part of an army ous and the most important part of an army It was so in the Persian, the Greek and the Roman armies and was equally so in the changed conditions of the Great War Early armies consisted of infantry and cavalry, the latter a comparatively small body, and in the Middle Ages there were many struggles between the two the advantage being sometimes with the two, the advantage being sometimes with one and sometimes with the other Later the artillery made a third arm, and later still came the airmen, but since about 1400 no major battle has been won without a stout body of infantry

Infantry to-day are organised in battalions about 1000 strong and form something like three-quarters of the strength of the modern From early times they have been army classified, usually according to their principal

weapon, and so we hear of slingers, archers, Informer In English law a person who crossbowmen, pikemen, fusiliers, grenadiers, Informer prosecutes another for breakcrossbowmen, pikemen, fusiliors, grenadiers, rifiemen and others Mounted infantry are infantry who use horses to aid their progress, not to fight on as do cavalry

Infection Conveyance of disease through the entrance into the body of micro organisms which generate toxins in the blood or tissues of the patient Many infective disease germs are carried by persons apparently healthy as in the case of typhoid fever, and a number of animals and insects are responsible for the spreading of contagious diseases In Great Britain the more serious infectious

diseases, searlet fever and smallpox, for in stance, are notifiable, 1 e, the medical officer of health must be informed, under penalty of a fine, when a case occurs Other diseases, e g, measles, can be made notifiable it a local authority desires it

Inferiority Complex In psycho of inferiority, manifested by lack of confidence, dissatisfaction with one's achievements diffidence, etc. It often leads to a reaction or swing in the other diseases. in the other direction the subject assuming a bold, confident, self satisfied or even pompous demeanour Some Psycho analysts derive the inferiority feeling from some actual physical drawback of the subject.

Infidel Word meaning without faith and denoting, more or less oppprobriously, one who rejects Christianity, while accepting no other faith. It is not applicable to heathens, to those rejecting particular doctrines only, or to doubters prepared to be persuaded Mohammedans designate Christians by similar

words, graour, kafir

Inflammation Condition of a part of the blood vessels causing reduces, rise in temperature, swelling and pain and is due to the presence of microbes, irritant bodies, burns, etc. The white blood vessels corpuscies or leucocytes in the blood vessels that bodies, burns, etc. The white blood vessels destroy the microbes and pain and is due to the presence of the blood vessels. The white blood vessels destroy the microbes and the results of the blood vessels.

In care of the Boston, March 17, 1820, in 1863 a volume of her verse attracted attent power, and was followed in 1867 by a long poem, A Story of Doom. She then turned to novel writing, and published Off the Skillugs, Don John and other books. She died in London, July 20, 1897.

In care of the verse attracted attent power, and published Off the Skillugs, novel writing, and published Off the Skillugs, and pain and is due to the presence of microbes, irritant bodies, burns, etc. The white blood vessels.

In care of the verse attracted attent power, and was followed in 1867 by a long poem, A Story of Doom. She then turned to novel writing, and published Off the Skillugs, and pain and is due to the presence of microbes, irritant bodies, burns, etc. The white blood vessels.

In care of the verse attracted attent power, and was followed in 1867 by a long poem, A Story of Doom. She then turned to novel writing, and published Off the Skillugs, and pain and is due to the presence of microbes, irritant bodies, burns, etc. The white blood vessels.

In care of the verse attracted attent to the power of the power of the verse attracted attent to the power of the destroy the microbes and the remains of the dead microbes and leucocytes form pus or matter. Where chronic inflammation occurs, it may be caused by such complaints as

rheumatism gout or tuberculosis
Inflation Condition of being puffed up
with air, or gas It is used when
air is pumped into motor tyres and in other

such cases

It is also used financially for an increase in the amount of money especially paper money, in circulation There was a good deal of this in most European countries during the war-period and it was suggested as a remedy for the serious depression that prevailed in 1931–32. Its effect is to raise prices—The opposite process is called deflation  $(q\,r\,)$ —flee Reflation

Influenza Infection is feverish disorder of short duration. It is characterised by cate h of the respirator, and intestinal tracts and more or less prostri and intestinal tracts and more or less prostri-tion. It usually eccurs in epidemic waves Apparently caused by a microbe, which usually operates within 48 hours it may sweep rapidly round the world as it did in 1913-19. The disease has a low death rate as a rule but has protracted effects upon the general health. Treatment—To avoid risk of complications as in hed in a warm room is essential until

ing the law In 1931 there were cases of this kind and common informers brought actions against the proprietors of cinema houses for leeping these open on Sunday In one case at least of this kind, large damages were awarded to the informer

Another kind of informer is a criminal who comes forward to give evidence against his fellow criminals This is usually called turn-

ing king's evidence

Ingatestone Town of Essex, 24 m from London, on the LNE Rly Near is Ingatestone Hall, the seat of Lord Petre. Pop 600

Inge William Ralph English divine Born in Yorkshire, June 6, 1860, he was educated at Eton and King's College Cambridge From 1889 84 he was a master at Eton and from 1889 1904 was fellow and tutor of Hertford College Oxford In 1905 he became vicar of All Saints, Ennismore Gardens, London, and in 1907 Lady Margaret Professor of Divinity at Cambridge In 1911 he was made Dean of S Paul's During Processor of Divinity at Cambridge in 1911 he was made Dean of S Paul's During his years at S Paul's, Dean Inge became a very popular writer, dealing fearlessly with the problems of the modern world His ideas are contained in Outspoken Essays, The Idea of Progress, Lay Thoughts of a Dean, More I ay Thoughts of a Dean, 1931, and other books. He has written standard books on books He has written standard books on mysticism and the philosophy of Plotinus In religion Inge is a broad churchman with only scant sympathy with High Church ideas

Ingelow Jean English poetess at Boston, March 17 1820,

Ingersoll Town of Ontario on the Thames 19 m from London, on the CP and CN Rivs The town has some manufactures and there is an export

trade in farm produce Pop 5150

Ingersoll Robert Green American writer Born Aug 11, 1833, the son of a minister, he became a lawyer He served in the Civil War and was afterwards known as Colonel Ingersoll In politics, having been a Democrat, he turned to the Republicans and was made Attorney General of Illinois He was better known for his attacks on Christianity He died July 21, 1899

Ingleborough Hill in Yorkshire, from Settle in the NW of the county, and 2370 ft high On it are remains of a fort and in it is Ingleborough Cave containing stalagmites and stalactites

Ingleton Market town of Yorkshire (WR), 10 m. from Settle and 216 from London on the LMS Rly Pop 2461

Unwrought metal cast and moulded ingot shape and size for further use The term is applied particularly to gold, silver and steel

Treatment—To avoid risk of complications rist in bed in a warm room is essential until the temperature is normal (98 4°F) Aspirin the temperature is normal (98 4°F) Aspirin the temperature pain and reduce temperature and a light diet should be adopted An aperient as a sculptor and an actor, afterwards becoming connected with the film industry. His

687

The Four Horsemen of the Apocalypse Ingres Jean Auguste Dominique painter Born Aug 29, French Ingres painter Born Aug 29, 1780, he was awarded the Grand Prix in 1801 after 4 years' study Consisting chiefly of portraits and classical subjects, his work is represented in the Louvre and many European collections and at the Musée Ingres at Montauban opened in 1867 He died Jan. 14, 1867

## Inhabited House Dutv

Tax levied until 1924 on all inhabited houses in Great Britain over a certain yearly value It was introduced in 1851 and was on a graduated scale, 3d, 6d, or 9d, on houses worth more than £20 a year On farmhouses, shops and public houses it was 2d, 4d or 6d It was abolished in 1924

Inhibition Term meaning external restraint. In psychology it is applied to the repression of an impulse, etc. which, from its nature, is repugnant to the conscious mind Many primitive urges are conscious mind Many primitive upon conscious mind Inhibition may not be complete, and the energy is then displaced on to some associated mental process not unaccept-able to consciousness See PSYCHO-ANALYSIS, REPRESSION

Initiation Introduction or admission by preliminary instruction or or ceremony into an office or society In primitive culture ceremonial introductions, whether into adult privileges and duties, the status of leadership or secret guilds, sometimes meant the effusion of blood, as by circumcision, tattooing or other mutilations

Injection Term used in medicine for the method by which a drug or food is introduced into the body by means of a syringe or similar apparatus Hypodermic injection is a means of introducing drugs beneath the skin by a special form of graduated glass syringe attached to a sharppointed hollow needle Another form injection is the use of the enema for the washing out of the rectum with water in obstinate constinuation or the introduction of drugs or foods into the intestinal tract.

Injector Apparatus used for causing a pipe by means of a jet of steam under high pressure Various forms of injectors are used for feeding water to grant a pipe for seeding water to grant height pressure of the pipe for feeding water to grant height pressure to grant heig for feeding water to steam bollers, the earliest type being introduced by Henri Giffard in A form of the apparatus is used also for removing water from a boller, and is termed an ejector, and another type main-tains the vacuum in the cylinder of a vacuum brake

Injunction Term used in English law It means an order forbidding a defendant from doing something which he threatens to do Thus, if there is an action about the ownership of some debentures, the plaintiff could apply to the court for an injunction forbidding the defendant to dispose of them until the action had been heard Application for injunctions must be made to the High Court.

Ink Black or coloured liquid used in writing, printing, etc Ordinary writing inks are made from terrous sulphate and an infusion of gall-nuts with the addition of a little gum, but in blue-black luks aniline and a little gum, but in blue-black luks aniline blue or indigo is added Red ink is usually a solution of cosin dye Copying ink is a writing ink containing glycerine to prevent EC 4

productions include The Garden of Allah and drying, and typewriter inks usually consist The Four Horsemen of the Apocalypse of a solution of merhyl violet or other aniline dyes, with oil, glycerine, etc Printing inks are oily compounds of lampblack, paraffin, resin, etc Marking inks are preparations of silver nitrate or aniline dye stuffs See Indian INK

Inkerman Ridge in the Crimea, the scene of a battle between the British and the Russians The hill, the British and the Itussians The full, which overlooks Sevastopol, was held by the British who were attacked on Oct. 25, 1854, by the Russians On Nov 5, during a dense fog, the Russians attacked again, and only after the arrival of British and French reinforcements were the Russians beaten off The British lost about 2400 men, the Russians about 11,000

Inkpen Village of Berkshire In the neighbourhood is Inkpen Beacon, the highest point of the Berkshire Downs. It rises to a height of 959 ft at Walbury Hill The village is 4 m from Hungerford Pop 660

Inland Revenue Name used in Great Britain for the revenue obtained from income tax, death duties, stamp duties and licences of various kinds The collection of these taxes is supervised by the Board of Inland Revenue at Somerset House, London, W C

Inlaying Method of ornamentation of wood or metal It consists of the insertion of small thin pieces of some material into the surface to form geometrical material into the surface to form geometrical or other forms of designs. The materials used may be wood, ivory, pearl, tortoise-shell or metal, and inlaving is used for furniture, chessboards, small boxes, etc. In wood inlaying, thin veneers of different coloured woods are generally used to give contrasts in colour, and these veneers are glued to the surface of the object.

William English shipowner Inman Born at 11111 Born at Leicester, April 6, 1825, he was educated in Liverpool and entered business there In 1849 he became a partner in a firm of merchants and in 1850 a shipowner He founded the Inman line, and died July 3, 1881

Inn House where travellers are accommodated The larger inns are usually known as hotels, and all are in the eyes of the law public houses If accommodation is available the proprietor must take in travellers who apply for accommodation Every inn must be licensed if intoxicating liquors are sold, and for this purpose can only be open for certain hours each day

Inns have a great historic interest. existed in the time of the Romans I In England they are heard of in the 12th century, and from that time until the coming of the and from that time until the coming of the railways they played an important part in the life of the country Some of them, such as The Mermaid in London and The Tabard at Southwark, are famous for their literary associations Others, still standing, are famed for their ago or picturesque appearance, or both Such include The Feathers at Ludlow, the Luttrell Arms at Durster the Old Scores the Luttrell Arms at Dunster, the Old George at Salisbury, the New Inn at Gloucester, The Maid's Head at Norwich, The Star at Alfriston The word means within, and many others Company is one of the London livery companies The hall is at 28 College Street, See HOTEL.

Innerleithen Burgh of Peeblesshire, the LNE Riv The chief industry is the manufacture of woollen goods The town has a mineral spring and pump room The spring is the original of the one in Scott's Si Ronans [Innsbruck Town of the Tirol and the capital of the district It stands on the River Inn, 102 m from Munich, high amid the mountains, and is a popular townst resort Among the buildings, the first from the point of view of interest is the Well Pop 2500

Inner Temple One of the four Inner Temple English inns of court Its buildings are in the Temple, London, E.C., where it has a fine hall and library The Society shares the Temple Church with the Middle Temple

Innisfail Poetical name for Ireland It means the island of destiny Irish legends record that the Lia Fail, the stone on which Jacob slept when he saw the heavenly ladder, was brought to Ireland and placed at Tara, where it was used as a coronation stone

Inniskilling Name formerly used for the Irish town of Ennis killen It is borne by two regiments of the British Army The Royal Inniskilling Fusiliers was raised in 1689 and ranks as the 28th regiment of the line, it has a fine record of service, including the Great War The depot is at Omagh

The Inniskilling Dragoons was raised at the same time and under the same conditions, Enniskillen having just been defended against the forces of James II and the French After the Great War it was disbanded and the name taken by the 5th Dragoon Guards

Innocent Name of 13 popes, the most important of whom was Inno ATHOCENT important of whom was Inno cent III (see below) Innocent I was pope from 402 to 417 He died March 12, 417, and was afterwards canonised Innocent II reigned from 1130 to 1143 Innocent IV, who reigned from 1243 to 1254, was much occupied in the great quarrel with the Emperor Frederick II Innocent V only reigned for a few months Innocent VI, a Frenchman, reigned from 1352 to 1362, and Innocent VII from 1104 to 1406 Innocent VIII was pope from 1484 to 1492, and Innocent IX for a few weeks in 1501 Innocent IX reigned 1614 55 Innocent XII, 1676 89 and Innocent XII, 1601-1700 Innocent XIII was pope 1721 24

Innocent III. Pope from 1198 to The son of an Italian count and the nephew of Pope Clement Italian count and the hephew of Pope Clement III he was born at Anagni in 1160, his name being Lothaire Conti He was educated in Paris and Bologna and in 1181 hecame an official in the papal court In 1101 he was made a cardinal, and in 1198 he was chosen pope Innecent reigned for 18 years a period during which the papacy was at the height of its power In Germany his influence helped Otto IV and then Frederick II to secure the imperial throne, he forced John of England to imperial throne, he forced tohn of England to a humiliating surrander, and his authority was also exercised in France Norway and other lands Innocent called the council of the Lateran which in 1215 proclaimed a crusade and he was responsible for the crusade against the Abigenses He died at Perugia July 16, 1216

Innocents' Day The day commem Herod s massacre of the children of Bethlehem (Mat thuw II) The Greek Church observes it on Dec 29 and Western Christianity on Dec 24 In pre Reformation days it was an oc a join of the Market Landschaff of the Christian of the Market Landschaff of the Market Landsch ca ion of public mourning in England

Franciscan church, which contains the magnificent marble cenotaph of the Emperor Maximilian I Another famous building is a house with a roof of gilt copper tiles and a notable balcony of the 15th century. Near the town was a Roman station and later an abbey, the church of which still stands It has a broadcasting station (283 M, 05 kW) Pop 56,400

Inns of Court In England four societ les that alone have the right of admitting men and women to practise as barristers They are Lincoln's Inn, Gray's Inn, Inner Temple and Middle Temple In Dublin there is an inn of court called the King s Inn and one has existed since 1922 for N Ireland at Belfast In Scotland a similar work is performed by the Faculty of Advocates

Each inn is governed by barristors called benchers, one of whom is chosen each year to act as treasurer Each of the four English to act as treasurer Each of the four Enginen inns has a hall, library, chapel and other buildings in London At one time there were other inns of court in London, but these have now disappeared except that, in some cases, the name remains Among these are Clement s Inn, Staple Inn, Serjeants' Inn, Thavies Inn and Clifford's Inn.

Inoculation introduction into Term applied to body by subcutaneous injection of an attenuated virus for the purpose of preventing a disease The best known example of inoculation that of vaccination for small pox, but within recent years the use of anti toxic sera and vaccines has extended the range of inocula tion or vaccination to the prevention of many other diseases, such as tetanus hydrophobia or rabies, diphtheria, typhoid and anthrax

Inquest Inquiry of any kind In England in mediacval times Inquests were used for a variety of purposes, but to day the word is confined to inquiries held by a coroner These usually concern persons who die suddenly, or by violence, in fact, every one for whom a doctor will not give a certificate stating the cause of death The coroner also holds inquests on treasure trove At one time a coroner had always to sit with a jury, but since 1927 he need only summon a jury if he thinks that the death was due to violence, such as murder or man slaughter, or to a street accident See Coroner.

Inquisition Any inquiry, but chiefly the inquiry known in the Roman Catholic Church as the Holy Office It was founded in 1248 by Pope Innocent IV for the suppression of heresy, and was directed by the members of the order of St. Dominic The first tribunal was set up at Toulouse, and it was introduced into Italy, Spain, the Nether lands Portugal, and taken to the countries of the New World It lasted until the 19th century, when it was suppressed in the various countries at different dates

The great age of the Inquisition was the 15th century, and the country where it was most active was Spain Under an Inquisitor General, the most notorious of whom was Torquemada it had an claborate organisation Before the tribunals any one suspected of heresy could be brought on the most fragile

The sittings were held in secret, and the accused knew nothing of his accuser Torture was freely used by the officials, rorture was treely used by the officials, known as familiars, to extract confessions, and the condemned were usually burned with great ceremonial Even allowing fully for exaggeration, the Inquisition was responsible for thousands of deaths and a vast amount of suffering

Insanity State of having an unsound being unable to control one's actions Insanity is the result of disease of the mind, acquired or the best of the mind, acquired or the mind. inherited, and if conduct is gravely affected "certification" and detention in a mental hospital are necessary. The insane are protected by the Lunacy Laws, which are administered by a government department, called the Board of Control See LUNAOY

Inscription Record of a durable character It is inscribed upon various materials such as stone, burnt clay, wood, metal, etc., either in conventional writing, pictorial or hieroglyphic script Our knowledge of the ancient races depends largely upon the decipherment of inscriptions upon buildings, tombs, pottery, etc The famous Rosetta Stone with its three forms of script furnished the clue to the ancient Egyptian language, while the inscriptions on the Rock of Behistun in Persia gave the key to the cunciform writing

Insect class of the arthropoda, a division Insect of invertebrate animals. They have jointed appendages, and consist of a larger number of species than any other class of arthropods, at the same time possessing a general uniformity of structure. Insects are characterised by having the body divided into head, thorax and abdomen, with the head provided with antenne, mandibles and other appendages. The thorax bears three pairs of legs and in most cases two pairs of wings, while the abdomen is limbless but may wings, while the abdomen is limbless but may have an ovipositor or its modification The exoskeleton is of uncalcified chitin, which may be of considerable thickness

Insects are air-breathers and respiration is by means of branching tracheae or air-tubes communicating with the exterior The sexes are separate, and development is usually by a metamorphosis consisting of a larva, chrysalis or pupa, and imago, but in some it is direct. For the most part insects are terrestrial, but a few are adapted for aquatic life

Insecticide Term applied to various chemicals or chemical mixtures used in agriculture and horticulture to destroy noxious insects These substances may be in liquid or powder form and are either stomach poisons or contact poisons Insecticides of the first class destroy by being taken in with the food, and consist of arsenical salts, copper sulphate or sodium fluoride and fluosilicates Contact insecticides enter by the respiratory pores on the insect's body causing suffocation Examples are pyrethrum powder and tar oils

Sir Thomas Walker Hobart. English politician Born in Bristol, March 5, 1876, the son of a solicitor, he became a barrister and a K C In 1918 he was elected Unionist M P for Central Bristol, and in 1922 he was Solicitor-General, an office he again held in 1924-28 In 1928-29 he was Attorney-General, and in 1931 he was again Solicitor-General in the National Government, later becoming Attorney-General In 1929 having

lost his seat at Bristol, he was returned for the Fareham division

Insolvency to pay one's debts It is thus the equivalent of bankruptcy, though many cases of insolvency are dealt with by a deed of arrangement See DEED, BINKRUPTOY

Insomnia Inability to sleep, especially when chronic Distinguishable from the sleeplessness attending many illnesses and from the occasional wakefulness caused by indigestion, it is often due to worry or overwork, but sometimes succeeds a past illness, eg, influenza It is believed to be due to a disturbance of the mechanism controlling the cerebral blood vessels. It is best remedied by simple dietatic measures from all and by simple dietetic measures, fresh air and avoidance of disturbing factors. Sedative drugs, except under medical advice, should be scrupuously shunned See SLEEPLESSNESS

Inspector One who overlooks or in-has inspectors of factories and mines the Board of Education has inspectors of schools, the Board of Inland Revenue has inspectors of Local authorities have inspectors income tax of food and for other purposes

Inspiration Act of drawing in breath, as opposed to expiration Analogously the word denotes influences exerted upon the human mind and spirit, and specifically those which resulted in certain RV). The nature of this inspiration has been much discussed The older view, that of verbal, plenary or mechanical inspiration, is mostly displaced nowadays by that described as dynamical, essential or vital Under this it is held that the Bible contains the Word of God, and that the inspiration lies, not in the manner of the record, but in the value of the revelation

Instinct Term which is defined in different ways according to the school of psychology It may be expressed generally as an inherited or innate capacity for the performance of certain actions in response to a particular stimulus without the performance of the performanc response to a particular stimulus without previous inference or teaching, or it may be defined as the fulfilment of certain fundamental needs, such as the satisfying of the desire for food Instinct is seen at its best in the activities of ants, bees and wasps

Word meaning something that Institute is set up, a variant being institution. There are institutes and institution institution of the control of the contr institution tions of all kinds in Great Britain, eg. poor law institutions

The Institute of France, established in 1795, was formed to group together the five great was formed to group together the five great learned societies of that country, the French Academy, the Academy of Inscriptions and Belles Lettres, the Academy of Sciences, the Academy of Fine Arts and the Academy of Moral and Political Sciences. The number of its members is 228 and the headquarters are in Paris

The Institut Français is an educational centre in London, its object being to promote

a knowledge of France among English people
Its offices are 7 Cromwell Gardens, S W 11
An institutional church is one that undertales social and educational work of various Linds, as well as the ordinary religious activities. The first was established in Boston in 1894

Insulation Term in electricity express-ing the resistance to the

passage of an electric current by certain substances known as insulators. Dry air and gases are almost perfect insulators, while among

solids, ebonite, rubber, paradin wax, mica, porcelain and gutta peroha are most used

Insulin exact obtained from the pantaker from islets in the pancreas, and is much used in the treatment of diabetes. It was

discovered by F G Banting

Insurance Method of providing by regular payments for an an event, either certain, such as death, or possible such as fire To day insurance is an enormous business conducted by companies with vast funds and wide ramifications In Great Britain special legislation has been passed to protect insured persons, and the affairs of insurance companies are to some extent super vised by the state Each policy, this being the name for the contract between the insurer and the insured, must conform to certain conditions and must be stamped

Some companies deal in only one kind of insurance, but most of them conduct almost all classes of business This may be divided into life, fire, marine and accident, but there are other branches, the insurance of machinery and boilers of aircraft and of plate glass Each has its own conditions and its own experts Farmers can insure their crops and their cattle holiday makers can insure against loss, owing to bad weather, and parents can insure against the failure of children, owing to illness to attend school In addition unusual risks such as the failure to hold a seat at a general election, or the missing of a boat to America, can be insured against at Lloyds

nable at a certain age, say 65, if the insured reaches that age, and some policies have bonuses added to them The amount of the premium varies with the age, sex and health premium varies with the lagge, sex and health conditions of the insured Practically all property is insured against fire, and many people find it convenient to take out a combined policy that covers their possible loss not only in the event of fire, but also against burglary and accident to servants

Marine insurance is a highly specialised branch All vessels and their cargoes are insured and any loss is borne on the principle of average, this being worked out by average Insurance against accident is adjusters newer branch and much of it is concerned with motor cars Since 1930 every motorist must

be insured against third party risks
Two other forms of insurance are very
popular in Great Britain Industrial insurpopular in Great Britain Industrial insur-ance is a special branch and is controlled by special laws Much of it is done by the friendly special laws Much of it is done by the friendly societies but large companies also exist for the purpose and some of these have accumulated very large reserves. The premiums are collected by paid agents every yeel, and the societies are thus called collecting societies. The policies are chiefly life policies, and a good many are to provide funds for burials Life policies of this kind must not be for more than £300, and to prevent abuse no one can take out a policy on the life of a child can take out a policy on the life of a child for more than £15 and this can only be done by the parent or other near relative

A form of insurance is conducted by some of the great national newspapers. By becoming

against accident The terms are laid down in the newspaper itself Very large sums are given in case of death in a railway accident, a comparatively rare occurrence, but smaller sums for road accidents Quite apart from this insurance work are the state schemes for insurance against ill health and unemploy-

mont, which affect over 17,000,000 workers See HFALTH, UNEMPLOTHENT INSURANCE AS A CAREER The possibilities offered by Insurance as a career are considerable for the man with some mathe matical ability and keen commercial instincts The four branches of insurance fire, marine, accident and life are usually separated Each has many departments, and ample scope for

the able man Insurance is entered by the post of Junior Clerk for which a secondary education is essential, and matriculation is very generally called for When university men are em ploved higher starting salaries are paid

ploved higher starting salaries are paid As a rule the commencing salary is anything up to some £70 or £80 per annum.

The Chartered Insurance Institute, 11 Queen Street, London, E C 4, holds Insurance examinations, and through its local Insurance Institutes in various parts of the country arranges classes for all engaged in Insurance An associateship is conferred on a candidate who shows proficiency in any one of the four branches of Insurance—fire, life, accident and marine, whilst a candidate for of the four branches of Historice—Ire, Mo, accident and marine, whilst a candidate for Followship must possess in addition a general knowledge of all the branches of Insurance and also of the subjects Principles of Commerce, Banking and Finance, and Elements of Commercial and Company Law

Intellect General term for the activities of the mind in reference to Lloyds
Policles of life insurance are taken out for INTELLECT of the mind in reference to a fixed sum and the premiums paid at stated the power of understanding and reasoning, intervals
The sum insured for may be pay the power of perception and thought and of synthesising isolated sensations. The term synthesising isolated sensations. The term intellect has been used by philosophers in many senses from Aristotle downwards. Pure intellect according to Kant is intellect as separate from sense

Intelligence Term which, in the defined as the fundamental and inborn ability to learn by experience and to employ the means to obtain the end in view It is used, however, with a variety of shades of meaning, some regard intelligence as equivalent to some regard intenigence as equivalent to cognition, others as expressing the average mental ability indicated by various intelligence tests. Obviously there is a wide range in degree and intensity between the dawning intelligence of an ape and the matured mind of

Intelligence Department Department of a navy, army, public department or business that exists to collect informa tion Every government keeps a secret service department which is sometimes called an intelligence department In Great Britain this is under the Foreign Office and exists to keep the authorities acquainted with happen

ings in foreign countries The army has an intelligence department under the director of military operations and intelligence, and the air force has a similar department. In the navy there is a director of intelligence

Intelligence Test Means of examing the amount of intelligence in an individual a regular subscriber a person can be insured Apart from ordinary examinations, several systems of lesis are in use. Generally an intelligence test consists of carefully framed questions, or a set of directions to be followed, or again tasks to be performed. In some systems, speed of response to the questions or work is important. These tests are of especial value in grading school children.

Interdict Ecclesiastical punishment proother high official It may be either general or
local The most famous general interdict
was when Pope Innocent III placed England
under one This meant that no religious
services could be held, but it was impossible
to enforce it completely to enforce it completely

In Scotland an interdict is a legal term corresponding to the injunction of the English

courts of law See Injunction

Interest Money paid for the use of money It is paid at a fixed Interest money paid for the use of rate, usually yearly, or half yearly, or quarterly, for the use of a loan The money paid for a mortgage is interest, and when it is paid income tax must be deducted. The rate of interest is governed by the law of supply and demand, and also by the quality of the security offered. The bank rate is an indication of the interest charged on loans for short parieds. interest charged on loans for short periods Dividends are not, strictly speaking, interest on money lent, but profits on trading Interest may be either simple or compound Compound interest is interest on interest, and mounts up at an enormous rate At compound interest of 5 per cent a sum of money will double itself in about 14 years

Interlaken Pleasure resort of Switzer-land, on the Aar in the canton of Berne, 17 m from Thun, it is the centre of the district called the Oberland Near is Lake Brienz and overlooking the town is the Investment Poer 2000 is the Jungfrau Pop 3700

Interlocutor Term used in law Inter-locutory proceedings are those which take place between the beginning of an action and the trial Such include interrogatories and applications in chambers In Scotland an interlocutor is an interim judgment

Short burlesque or play Intermezzo character It is usually given in an interlude of a performance of grand opera or drama

In music, a brief composition to be played

in the interval of a longer work, or for ordinary rendering, is called an intermezzo

International Socialist movement in which socialists from many countries are united There have been three such movements or internationals, and each has held several congresses

The first international accepted gramme drawn up by Karl Marx and lasted from 1866 to 1872 The second international, in which there was a trade union element, was organised in 1882 It sought to compass the aims of socialism by constitutional, not revolutionary, action, and it held congresses between 1882 and 1930 several third international was organised in Moscow and was revolutionary in its aims It declared in favour of establishing communism by force

International Labour Organisation International body, associated with the League of Nations and established at Geneva Its centre is the International Labour Office Representation Representation Representation Representation International Labour Office Representation Re

systems of tests are in use. Generally an sentatives of the principal industrial nations intelligence test consists of carefully framed questions, or a set of directions to be followed, or again tasks to be performed. In some about matters, at which governments, employers' and workers' organisations are repre-sented, with the object of raising the standard of labour in less advanced states to the level of that in other countries

> International Law Body of law regulating the relations between nations, especially in time of war It differs from other bodies of law in that there exists no power to enforce its decisions, but much is expected from the

increasing force of public opinion

The Romans recognised something like international law in what they called just gentum, or the law of nations, and the idea never entirely died out though it had little practical value In the Middle Ages and later certain customs were observed, and to give clarity to those, Hugo Grotius in 1625 wrote his De Jure Belli et Pacis, or the law of war and peace This founded modern international law It is contained in customs, treatises and declarations, such as the Contraction. treatises and declarations, such as the Convention of Geneva, and deals with such matters as the treatment of prisoners and wounded, contraband and blockade, the rights of neutrals and the special conditions of maritime and aerial warfare. The Hague Conferences have done something to strengthen and widen its authority International law is administered by the prize courts and the court of international justice at the Hague, sometimes called the Hague Tribunal

The Institute of International Law is a society founded in 1873 to study the subject Some universities have professors, or lecturers, in this branch of law, on which a

number of books have been written

Internment Detention of soldiers and civilians of a hostile or neutral state during times of war By international law all troops entering a neutral country must be interned or kept in that country until peace is made The law also applies to ships which stay in a neutral port beyond the brief time allowed There were cases of both kinds during the Great War The British troops who escaped from Antwerp into the Netherlands were interned there, and the United States interned German ships that did not put to sea

Interned soldiers and sailors are usually sent to a camp called an internment camp term therefore has come to be used for a camp

in which prisoners of war are kept.

Term used in English Interrogatory law In civil actions either party can, before the trial, seek information about the case from the other This is put in the form of a question, or interrogatory, and must be answered on oath. The inter-rogatories must be relevant to the issue and the masters in chambers prevent the system from being abused

Time between Interregnum reigns, a period when a country has no emperor or king There was an interregnum in Germany from 1254 to 1273 The period in Britain between 1649 and 1660 was an interregnum

are no children, all the property passes to the surviving wife or husband. If there are children the surviving husband or wife takes all the furniture and personal effects and £1000 free of death duties The remainder is divided into two equal parts One is put in trust and the income paid to the surviving husband or wife, passing on his, or her death, to the children The other half passes to the children, or to the child if there is only one If a child of the intestate has died leaving children, such children inherit their parent's share

If an unmarried person, or a widow or widower, without children dies, the property passes to the parents If they are dead it passes to the brothers and sisters in equal shares and if there are none to more distant If there are no relatives the estate

passes to the crown

These rules date from 1925 Before that time the real property of an intestate passed to the eldest son and the personal property to the widow or widower or children the the widow or widower receiving one third In 1925 the distinction between real and per sonal property was abolished

Intestine Lower part of the alimentary It reaches from the pyloric end of the stomach to the anus and is called also the guts or bowels. Receiving the bile panereatle and intestinal julces it com-pletes the digestive process nutritive matters entering the blood vessels and lacteals and refuse matters being exercted. It averages in man 30 ft. in length and is lined throughout with mucous membrane. It includes the small intestine, 24 ft long comprising duodenum jelunum and ileum and the large intestine oft long comprising caccum, colon and rectum

Intestinal Obstruction is usually caused by acute constipation or a diseased state of the

bowel

Symptoms —Pain, and vomiting first billous and later 'faccal in nature. There may be diarrhea at first until the part of the bowel below the obstruction is emptied after which nothing will pass. The condition is very serious and a doctor should be called at once In the meantime nothing should be given by the mouth

Intimidation Act of causing a person to do something or to retrain from doing something by threats. In figlish law intimidation of this kind is an offence and an MP or councillor can be unscated if intimidation is proved against him or his agent

Intoxication Polsoning of the body by drugs or alcohol etc. In common usage the term denotes the effects produced by alcohol (qr) Auto-intoxication is self polyoning by the action of toxins pro-duced within the body. These may arise from defective metabolism or from the presence of a septi focus (e.g. in mouth, nose or bowel) and the consequent activity of harmful bacteria

Intuition Power of perceiving a truth immediately without any kind of reconing Some moral philosophers hold that certain moral values are intuitive. It is here an intuitive I now ledge of right and wron, they have no need to reason about it this was taught by Francis Hutchson and later by James Martine in The opposite dectrice is that moral values are simply the It This was taught by Frincis Hutcheson | Firth of Forth 13 m from I dinburgh on the and later by James Martine we The opposite | L. F. Rily During the Great War Inverdence of long centuries of human experience | keithing was a busy naval base Pop 3356 | Invalides | Hotel des Building in Peris | Inverlochy | Village of Inverness shire on the River Lochy, 1 m

and was built in 1670 as a hospital for disabled soldiers. It now contains the tembs of Napoleon, Foch and other great French soldiers as well as a collection of armour and relics of Napoleon

Invar Alloy of steel and nickel instruments used by scientists for measuring purposes This is because it is less liable to contraction or expansion from heat than any

other known alloy

Term applied to the dis Invention covery of some contrivance or device previously unknown It would appear that an invention may arise either as the result of numerous experiments, exhausting all possibilities, or as a sudden in spiration From a practical standpoint the utility and ability of the device to work is e-sential To protect an invention it must be registered at the Patent Office in London

Inventory Word meaning a list of goods or other property Such are compiled when a furnished house is let or the estate of a dead person is wound up An inventory of the goods concerned is generally attached to a bill of sale

A duty formerly paid in Scotland on the

personal estate of deceased persons was called

the inventory duty

Inveraray Burgh and county town of Arryllshire It stands at the mouth of the River Arry, just where it falls into Loch Fyne, 40 m from Glasgow Inveraray is best reached by steamor Pop 500

Invercargill Town of New Zealand in South Island 140 m from Dunedin and standing on the estuary of the New River and it is the centre of an agricultural district and has some manu facturing industries Bluff Harbour is its port Pop (1932) 21 350

Inverclyde Baron Scottish title borne by the family of Burns Sir George Burns one of the heads of the Cunard Line of steamers left a son John, who was made a baron in 1897 He died in 1906 and two of his sons succeeded in turn to the tith The younger, James Cleland Burns, died Aug 16, 1919, when his son John Alan Burns, became the 4th baron The family scat

Inveresk Village of Midlothian, on the Fish, 6 m from Ldinburgh, by the LNE Rly Here are large paper mills

Inverforth Baron Scottish shipowner Kirkcaldy, April 24, 1865, and became a clerk in a shipping office in Glasgow where he founded the business of Andrew Weir & Co, which became a large and flourishing firm 1917 Welr vas engaged at the War Office with the supply of munitions to the forces From 1919 until 1921 he was Minister of Munitions

Invergordon Burgh and scaport of Ross and Cromarty, on Cromarty Firth 13 m from Dingwall by the L.M.S. Rly The chief industry is shipping During the Great War it became a naval base and is still used for that purpose Pop 1050

Inverkeithing Burn and seaport of Fife-blre on the

from Fort William Here, on Feb 2, 1645 Montrose gained one of his victories Sir W 1645, Scott describes the battle in The Legend of Montrose.

Inverness Burgh and market town of inverness shire, also the county town The recognised capital of the Highlands, Inverness stands on the north side of the River Ness near where it falls into the Moray Firth It is 160 m from Edinburgh and 100 from Aberdeen, on the LMS and LNE Rive It is also on the Caledonian Canal There are some historic houses and the Stone of the Tubs is the burgh's proudest The industries are distilling and possession railway works, and there is a large agricultural trade Inverness is a popular tourist resort Pop (1931) 22,300

Inverness Seaport of Nova Scotia, on Cape Broton Island at the mouth of the Big River The terminus of a railway line, it is 186 m from Hallfax Its trade is chiefly the shipping of coal Pop 2963

County Inverness-shire Scotland, largest in the land It covers 4210 sq m, has an indented coast line on the west and consists of two portions, one the mainland, the other consisting of Skye, Harris, North Uist, South Uist and many other islands of the Hebrides The Caledonian Canal cuts the mainland area The Caledonian Canal cuts the manufacture into two parts Inverness is the capital Other into two parts. William and Kingussie The places are Fort William and Kingussie The shire, with its many lochs and valleys between the mountains, contains wild and beautiful The soil is unfertile and most of it is scenery devoted to deer forests and grouse moors, with only a small portion for sheep rearing The chief rivers are the Spev, the Ness and the Beauly In the county are Ben Nevis and other lofty mountains It is served by the L M.S Rly Pop (1931) 82,082

Inversnaid Village of Stirlingshire, on the east side of Loch Lomond, and a calling place for steamers which meet the coaches here The scenery Village of Stirlingshire, on

around is very beautiful

Invertebrate General term for those animal types which are devoid of a backbone and other characters such as a dorsal tubular nerve cord, the possession of gill slits at some stage, a ventral heart, etc., seen in the vertebrate animals. The invertebrates include the molluses, the molluscs, arthropods, worms and lower types

Inverurie Burgh of Aberdeenshire, on the Urie and Don, at the point where the two rivers meet, 540 m from London by the LNE Rlv, and 16 m from Aberdeen Cattle markets are held, and there are railway shops and paper mills Pop 4425

Investiture In feudal times the cere-handed property to a vassal It usually took the form of the vassal swearing an oath and then receiving something as a symbol possession, for instance, a clod of earth

The investiture controversy, as it was called, arose when the Church forbade bishops, abbots and other holders of land to receive investitures from laymen The matter was complicated because the land went with an ecclesiastical position such as a bishopric, so that the kings and lords were investing cleries, not only with land, but with offices

In 1075 Pope Gregory VII (Hildebrand) ordered this practice to cease, and there was a bitter structle between him and the Engagery

bitter struggle between him and the Emperor

Henry IV Henry at length submitted, but the fight soon began again, and continued until 1122 when the Concordat of Worms was made between the Emperor Henry V and the Pope The Emperor gave up the right of investing with ring and staff, which he left to the Pope, but retained the right of investing the prelates with lands or temporalities. This became the law in the case of other rulers and lords England a similar struggle took place between Henry I and Anselm It was settled on the same lines in 1107

Invincibles Irish secret society It consisted of Fenians, and was responsible for a number of murders and other outrages between 1880 and 1885 The murderers of Lord F Cavendish in Phoenix Park in 1882 belonged to this gang

Several British battleships have been named the Invincible One was a battle cruiser sunk in the Battle of Jutland in 1916 She carried

eight 12 in guns and was 555 ft. long

Io In Greek mythology the daughter of the first King of Argos She was beloved by Zeus, who turned her into a heifer to protect her from the jealousy of Hera, his wife Hera obtained the heifer and set the hundred-eyed Argus to watch her Zeus sent Hermes to kill Argus, but Hera put a gadfly on Io to torment her Io wandered far till she reached Egypt where she regained her human form and her son Epaphus, was born She is supposed to be identical with the moon goddess

Non-metallic element widely dischiefly as lodides and lodates of sodium, potassium, calcium and magnesium Its symbol is I and atomic number 53 When isolated from its compounds it is a lustrous, lodine bluish-black solid, which volatilises at 107° C. forming a violet coloured vapour The main supply is from the impure Chile saltpetre, or caliche, of South America, but large quantities are obtained from kelp or seaweed

Iodoform Substance used as a mild, general surgical antiseptic. It is prepared by the action of iodine upon ethyl alcohol or acetone with heat in the presence of an alkali. It occurs as lemonyellow hexagonal scales having a disagreeable smell resembling that of saffron, and it is soluble in alcohol, ether and oils

Term applied in electro-chemistry to electrically charged molecules or groups of molecules formed by the dissociation of an electrolyte On electrolysis the kations and anions proceed to the cathode and anode respectively. The term is used also for the minute particles of a gas carrying electrical charges and produced under certain conditions, the gas becoming a conductor of electricity

In Greek legend the founder of the Ion In Greek regent the located Apollo, his mother being Creusa, the wife of Xuthus By chance his mother nearly poisoned him when he reached manhood His fate is the subject of a play by Euripides called *Ion* 

One of the Hebrides and part of the lona County of Argyll It is about 3 sq m in area and has a few inhabitants who farm small plots of land, or are engaged in fishing On the east side is the village of long

Iona is chiefly famous for its connection with About 563 S Columba landed Christianity here and founded a monastery which became very famous. Later the island was made the seat of a bishop The cathedral, which was

destroyed at the Reformation, is the property and chemical works. Clothing and agricultural of the Church of Scotland It was partly implements are made There are docks for the restored in the 20th century There are other shipping Pop (1931) 87,557 coclesiastical ruins on the island, including two crosses also a cometer; in which some of the curly kings were buried. On it, too, is the chapel of S. Oran

Name of one of the chief races Ionian that settled in Greece in ancient times They may have arrived as early as 1500 BC. About the 11th century BC, many of them settled on the coast of Asia Minor where a district was named after them-Ionia For some centuries the cities herein were very prosperous and homes of culture wrote in the Ionian dialect. Homer

Ionian Islands Islands of Greece, off The chief are Corfu Cephalonia, Ionian Sea Zante and Ithaca and altogether they cover 740 sq m Like Greece, the islands are 740 sq m rountainous but in the valleys the soil is very fertile. The chief town is Corfu on the island of that name. For some time the islands belonged to Venice. From 1814 to 1864 they were under British protection being then handed over to the new kingdom of Greece

Ionic Order One of the three orders of Greek architecture It is characterised by having more slender proper tions than the Dorio, with profusely ornamented mouldings The frieze is usually plain, and the column has fine flutings with intervening fillets or flat spaces. The base is richly moulded and the cornice adorned with volutes at the corners

Iowa State of the United States It lies to the west of the Mississippi and is an agricultural district maize being the chief crop Coal is mined Des Moines is the capital Sloux City and Davenport are the next largest towns. The are a is 56,147 sq. m. The Missouri and the Des Moines flow through the state Iowa sends two senators and 9 representatives to Congress For local affairs there is a legis lature of two houses Iown became a state in 1816 Pop (1930) 2 470 939

Ipecacuanha Dried knotted roots of psycholrica specacuanha It is a native of Brazil and is exported chiefly from Rio de Janeiro in the form of small pieces having a bended appearance. The drug has an acrid bitter taste and faint odour and is used na a powerful emetle and expectorant properties being due to an alkaloid emetine

Iphigenia in Greek legend the daugh ter of Agamemnon and Changenestra Artemis provoked by the Ch tremne-tra trycke of her favourite hart, becaused the trick fleet destined for Troy at Aulis To propillate her the soothsayer Calchas ordere! the sacrifice of the princess but this was averted by the goddess substituting another victim and transporting Ipligenia to the Tauric Chersonice There although as a Tauric Chersonese There although as a priestess she was bound to sucrifice ship trecked mariners she saved her brother Oneses and his friend Pylades. The story inspired to plays by Furipides.

Ipswich Town of Suffail also a county bound and a river port on the county of the story in the sto

Or all 60 m from London and is serve I by the L S F RIs. The gateway built by Wolsey

Town of Queensland 24 m Ipswich Town of Queensland 24 m from Brisbane by rly it is an agricultural centre, and there are woollen manufactures and railway works There are coal mines near Pop (1931) 26,253

Iquique City and seaport of Chile It is 150 m to the south of Arica The centre of the city is the Plaza Prat There are manufactures, but the ch'ef industry is the shipping of nitrate guano silver, and other metals Pop (1932) 40 458

Iran Old name for Persia. Iranian is the name of a language group which includes the Persian and Zend languages and is allied to the Baluchi, Kurd, and other languages

Country of Asia It lies between Iraq Persia and Arabia and stretches from Syrin to the head of the Persian Gulf Its area is 177,148 sq m The chief rivers are the Tigris and the Euphrates The capital is is 177,148 sq m The chief The capital is Bagdad other places are Basra, the chief seaport, and Mosul The country is rich in oil and exports cotton, wool, barley, and other agricultural produce There is a content of the capital is produced to the capital is a content of the capital is a capit rallway system and some good roads The unit of currency is the gold dinar, worth 21 and divided into 1000 file. The country is governed by a king and a cabinet. There is a parliament of two houses—a senate and an elected assembly A system of justice has been established with a supreme court at Bagdad Great Britain has an air force in the country and there are some British officials The chief languages spoken are Arabic and Kurdish

Formerly part of Mesopotamia and included in the Turkish Lmpire, Iraq was made a state in 1919 It was ruled by Great Britain under mandate from the League of Nations, and in 1921 I cleal, a son of the King of Hojaz, was chosen king In 1927 Great Britain by treaty agreed to recognise Iraq as an independent state, and to support its entrance to the League of Nations In 1933 King Feisal died and was succeeded by his son the Dmir Ghazi The chief British representative is the high commissioner Pop 2,850 000

Irawadi River of Asia It rises in Assam, but most of its course is in Burma and it falls into the Bay of Bengal near Rangoon, where its several mouths form a delta 20,000 sq m in area. It is 900 m long, most of its course being navigable and its main tributary is the Chindwin Mandalay is on the Irawadi, which is sometimes spelt Irrawady, a name meaning great river It is much used for the carriage of timber from the interior of Burma

Ireland Country of I urope Since 1922 it has been divided into the Irish Free State and Northern Ireland, each with its own government. The area of the whole country is 32,386 sq m and it is divided into four provinces and 32 counties. The provinces are I cluster. Munster and Country is 11 to 12 to 15 to 15

Vorthern Ireland
Ireland has a wonderful coastline and its Or all 69 in from London and is served by the L. N. F. Ris. The gateway built by Wolsey bays form some of the finest harbours in the still stards. The Great White Horse Inn is world. Notable are Cork and Waterford on a titured in The Pickwell Lapers. With Recy. Financial Islands in non-to-like the south coast. Others include Bolfast, Bery. Financial Islands in 1911. The industries Bay. Dingle Bay, Bantry Bay Donegal Bay takin is engineering works tobacco. Lactories and Dublin Bay, the mouth of the Shannon and many others. The chief river is the leading to still more bitter memories. For a Shannon, which is used to generate electric short time Ireland sent representatives to the power. The other rivers include the Suir, parliament in London. power The other rivers include the Suir, Barrow, Nore and Slaney, forming one group, the Blackwater, Lee and Bandon in the south-west, and the Boyne and Foyle in the north Others are the Liffey, on which Dublin stands, and the Erne There are many lakes of which Lough Neagh is the largest. The few islands, chiefly off the west coast, include the Aran and Achill groups, Rathlin, Tory and Valentia.

There are several mountain ranges, but the centre of the country is a large plain. In Kerry are Macgillicuddy's Reeks, one of which is Carrantuchill or Carntual, the highest peak in the land. The mountains of Wicklow on the east side, and of Connemara on the west, are remarkably picturesque. In the north are the Mourne Mountains on one side of the land and the hills of Donegal on the other In the centre is a good deal of bog, the bog of Allen being the largest stretch, but elsewhere the soil is fertile, and the herbage specially suitable for to terrife, and the herbage specially suitable for horses Cereals and potatoes are grown, cattle and a large number of pigs are reared. The island has a good railway system and several canals. Dublin, Belfast, Cork and Galway are the capitals of the four provinces. The three towns next in size are Limerick, Londonderry and Waterford.

In early times Ireland was a centre of Christianity and learning, and there are still many remains of its religious houses. It was ruled by a number of kings and chiefs, who were more or less subject to a high king at Tara, and it had its own system of law, the Brehon In the 8th century and later it suffered a good deal from the inroads of Scandinavian pirates, and their defeat at Clontari by Brian Boru in

1014 is regarded as a decisive event.

In the reign of Henry II Ireland became definitely associated with England, and henceforward it was, in a sense, an English possession John called himself Lord of Ireland and until Henry VIII took the title of king, Lord was the rank of the English sovereigns there Much land was taken from the natives and given to English settlers, and there grew up side by side two distinct races, one dominant and landholding, the other servile and landless Later, when the Reformation had done its work, the when the reformation had done its work, the antagonism between the two was made much worse by religious antagonism, as the Irish were Roman Catholics while the English were mainly Protestants As in England the monasteries were dissolved at this time.

The English lived within the district around Dublin called the Pale, and there filled the offices of state and controlled the parliament that had been formed on the model of the one in England The English king was represented

by a lord deputy

The antagonism between the two races and

The antagonism between the two races and creeds, as may be expected, grew steadily worse, and in the time of Elizabeth it came to a During her reign there were constant head. During her reign there were constant and terrible wars in Ireland, the struggle being conducted as if the combatants were wild beasts and not men. In the end the English prevailed and Ireland sullenly accepted the alien rule. In the 17th century James I settled, or planted, Scotchmen in Ulster, and Strafford, as lord deputy, did a good deal for Irlsh trade and commerce. The former step, however, led to a rising, and in 1642 there was another oray of massacre and ruin, this time another orgy of massacre and ruin, this time in the north. This was put down, and at the

parliament in London.

The struggle between William III. and James II. was fought out in Ireland, and when it was over a new period of Protestant as-cendancy began Roman Catholics could hold no offices whatever, nor even possess land in their own country. Equally rigorous were the restrictions on commerce, which forbade anything that might possibly compete with English traders. This state of affairs lasted for a good part of the 18th century, but after 1750 there was some relaxation. The laws against Roman Catholics were made less severe, and the trading restrictions removed In 1782 Ireland was given legislative independence, but the right to vote and sit in Parliament was still confined to Protestants From the intellectual and artistic point of view this age (1750-1800) was perhaps the most brilliant in Trich better. Irish history

In 1798, with Britain at war with France, there was a rising in Ireland, but this was quickly crushed at Vinegar Hill In 1800 the In 1800 the parliament was abolished and the United Kingdom of Great Britain and Ireland came into being Roman Catholic emancipation did not however, as was promised, accompany this union, but was delayed until 1829 Conditions seemed somewhat better when the terrible potato famine broke out in 1845 The population, which had grown very rapidly, was reduced by starvation and emigration to

about half its former figure.

For the rest of the century the history of Ireland was one of agitation against English rule, except in Ulster, where the English connection was fiercely valued One set of agitators—Whiteboys, Fenians, and the rest succeeded another, and murder and outrage were common Members, called nationalists were elected to Parliament to work for some degree of independence for their country and, sympathising with them, Gladstone three times tried to give Ireland home rule He failed, however, to convince the English people of the wisdom of this policy, which was opposed bitterly by the Protestants of Ulster In 1914 a measure of home rule was granted,

but the outbreak of war prevented its operation When the struggle ended, a new party (called Sinn Fein) dominated the country They refused to have any connection with England and set up an Irish Republic, a step which was followed by two or three years of terrorism, as bad as anything even in the history of Ireland

In the end a treaty was made in Dec, 1921 By this the Irish Free State was created, and the six counties that refused to be separated from Britain were formed into a separate state

The bulk of the Irish people are Roman Catholics The Irish Church is under the archbishop of Armagh, three other archbishops and a number of bishops. The Protestant Church (the established church until 1869, when it was disestablished and its archbishops and bishops ceased to sit in Parliament) has two archbishops, Armagh and Dublin Another strong church, especially in Ulster, is the Presbyteman Church of Ireland

Irene Atheres of Byzantium Born in

lrene Figure 1769 In 780 she became regent for her son, Constantine VI When he became old enough to rule for himself, his mother had him blinded and imprisoned and end of the civil war came the conquest of mother had him blinded and imprisoned Ireland by Cromwell, another period of terror she herself reigned as empress until 802

696

that year her enemies united against her and she v as banished to Lesbos In 803 she died Irones influence at the Council of Nicaea was directed towards the restoration of image worship for this the Greek Church regarded her as a saint

Ireton Henry Inglish soldier Born at went to Trinity College Oxford, and studied law in London In 1642 he joined the parlia mentary army, and was one of its leaders at Naseby He was closely associated with Cromwell whose daughter Bridget he married in 1646 In 1645 he was elected an MP, and he was one of those who tried to arrange peace between the king and his foes and later was one of the judges of Charles sixning the death warrant In 1619 he went to Ireland and had just succeeded Cromwell as lord deputy when he died at Limerici Nov 26, 1651 In 1660 his body was disinterred and hanged at Tyburn

Iridium Metallic element having the symbol Ir and atomic weight in platinum also as a natural alloy (osmiridium) with osmium Iridium is a white extremely hard motal which strongly resists corrosion it is used in alloy form for tips of gold nibs of fountain pens and for electrical contacts

Iris Character in Greek mythology She was the daughter of Thaumas and Ficetra and the messenger of Hera and the gods One story makes her the mother of The word in Greek means rainbow

Iris Circular, coloured membranous curtain in front of the crystalline lens of the crystalline in the pupil it is provided with radial and circular muscle fibres, which enable the iris to contract and enlarge thus regulating the amount of light entering the eye

Iris Genus of hardy flowering plants They are of two classes bulbous and non bulbous. There are many varieties of each these being known as Spanish Japanese, inglish and Dutch frises. For the bulbous lists sandy loam with peat or leaf mould is most suitable. Marshy soil is good for the Japanese iris. The Dutch and Spanish varieties prefer a warm light soil.

Irish Free State Dominion of the British Empire. It includes all Ireland except six countles in the north-east. Its capital is Dublin and the next most important cities are Cork and Calway. The area is 26 600 sq. m. and the population 2 972 900. Free is the national language but English is recognised. The Irelating a member of the Iraque of Nations.

State is a member of the League of Nations. The Free state came into existence in 1922. It has a governor general representing the kin, and a parliament of two houses—the sente and the Dail Figure —with a council of mini ters as the executive. It is a presented in London by a high commissioner and in

We hington and elsewhere by ambas-adors. The sax im of admini tering justice is largely basel on the Fall is model as is the system of Isal government with county town and urban dir it councils. Dublin and Cork have a paid official cells of the manner as well as an elected council. There is a defence force business defence is undertaken by Great Britain. Agricultive and the hing are the main industries and the agreement appropriate the main industries and the manner are some transfactures.

The railways have been united into a single or emitted to the control of the cont

are several canals, and electric power is obtained from extensive works on the Shannon

TRON

With Arthur Griffith at its head a provisional government got to work in the Free State early in 1922 Steps were taken to crush those who would not accept the new order, and in the midst of the trouble Griffith died His successor was W 1 Cosgrave, who for ten years remained president of the eventive, and in spite of certain difficulties the country made great progress. The elected members of the republican party refused at first to take the oath of allegiance, but after a time they changed their attitude and under Eamon de Valera (g v) took their seats and became the official opposition Each general election, how ever returned a majority for the party that supported the treaty of 1921 Various reforms were carried out and in 1925 a treaty with Great Britain relieved the Free State of its share of the national debt

In I ob 1932 there was another general election and a change. The republican party, by uniting with Labour and the independent members, secured a majority in the Dail and de Valera took. Cosgrave's place as president Hils ministry decided to aboilsh the eath of allegiance and then refused to remit to Great Britain the interest due on the money borrowed for the purchase of land Liferts at a settle ment failed, and Great Britain in July took measures to collect the money due by taxing imports from Ireland. In return the Free State decided to tax imports from Great Britain Air de Valera and his party Franna Fail were returned to power at the General Election of 1933. In 1935 they succeeded in passing a Bill for the abolition of the Senate. Their aim is independence and the development of domestic self suiliclency. In political and economic matters alike

Irish Guards Regiment of the British 1900 and its first spell of active service was in 1914 During the next four years the regiment was in much hard fighting with the other regiments of the Brigade of Guards

Irish Sea Arm of the sea between is connected with the Atlantic Ocean by the North or S Patrick s, Channel and the South, or S George & Channel Its breadth varies from 30 m to 150 m

Irish Terrier Breed of terrier derived from a cross between the fox terrier and a rough coated breed and introduced about sixty years ago. The formation of an Irish Terrier Club in 1870 established a standard of points for this class of dog. It welgha from 18 to 21 lb and has a rough, why coat of a red brown colour

Irkutsk City of Siberia, Soviet Russia it is 10 m from Lake Ball al, on the Trans Siberian Riy Its trade is concerned chiefly with the smelting of metals Pop 98 960

Irlam Urban district of Lancashire It stands where the Irreli falls into the Marcy, 8 m from Manchester Pop 12 838

Iron and atomic which 55 81 with a mediting point of 1505°C. It is the most widely distributed of the metals but rarely occurs in the metallic state, being chiefly found as oxides not only as ore but also as the colouring matter of rocks and as a constituent of the blood of animals.

The principal ores are haematite or ses

quioxide of iron, magnetite or black magnetic la Tène respectively. As far as is known there oxide, and limonite or hydrated sesquioxide, was no iron age in America also chalvbite, the carbonate, which forms, Tronclad Name used for a battleship also chalvbite, the carbonate, which forms, when impure, clav ironstone the sulphide, is a source of iron sulphate and sulphuric acid.

and suipnuric acid.

Pure iron is greyish-white in colour, soft, mallcable, and easily magnetised Pig or cast iron is hard, brittle and moderately fusible, while wrought iron is malleable and has a higher tensile strength than cast iron.

The manufacture of iron from ore is an old, was in England in the cast included in the cast iron.

widespread industry, and was in England in the time of the Romans, or perhaps earlier, charcoal being used to smelt the ore To-day plg or cast from is made by mixing the ore with coal, coke and limestone, and passing it through a blast furnace. It comes from the furnace and is run into moulds to form pigs, as they are called, which are graded according to quality The furnace is heated to 1200°, or even 1400° F, and about two tons of coal are required to produce a ton of pig iron
This pig iron is much too brittle to be used

for most purposes, so it undergoes further treatment in order to convert it into wrought iron or steel Wrought iron is made by sub jecting pig iron to a process called puddling This is done in a reverbatory furnace by a process which gets rid of most of the carbon in the pig iron As the carbon escapes, the fluid iron becomes pasty and is then brought away in large lumps It is afterwards hammered into rude slabs called blooms, and rolled out to

form bars or sheets

This method of producing iron by the use of coal and furnaces was greatly developed in England in the 19th century The furnaces England in the 19th century engiand in the 19th century. The furnaces were established where coal or iron ore or both, were easily accessible, such as the Black Country in Staffordshire, the district around Middlesborough, South Wales, and Lanarkshire. In the United States great ironworks were established at Pittsburg, and many were erected in Belgium. France and Cormany.

creeted in Belgium, France and Germany Great Britain, once the world's greatest producer of iron, has lost that position, and for years after the Great War the industry, except for brief spells, was in a very depressed condition In 1931 the world's output of pig iron was 55,000 000 tons The greatest producer was the United States, with 18,500,000 tons Germany and France produced 9,700,000 tons and 6 000,000 tons respectively, and Great Britain only 3,750,000 tons. In the three years before the war (1911-13) the production in Great Britain averaged 9,700,000 tons. The decline is due to the tariffs imposed by foreign buyers, as well as to the partial exhaustion of the reserves of iron ore, making the industry dependent upon supplies from abroad

The world's production of iron ore is about 60,000,000 tons The greatest known reserves

are in Sweden

The Iron and Steel Exchange, King William St., London, E.C., is the centre for all business transactions in the iron and steel trades in Great Britain See STEEL.

Great Britain See STEEL.

Iron Age In archaeology a cultural phase marked by the use of iron, especially for edged tools and weapons. In Europe and W Asia it usually followed the copper-using or bronze-using phase or age, in Africa it directly succeeded the stone age. In Europe ironworking became general in the Mediterranean region about 1000 BC, subsequently two pre-Christian periods occurred. sequently two pre-Christian periods occurred, each of about 500 years. These are charac ultra-violet rays of sunlight are employed in terised especially by finds at Hallstadt and the the terapeutics, and artificial sunlight is produced

Ironclad Name used 101 which had a protection of iron. The first ironclad was the Warrior, built in 1850. The ironelads succeeded the wooden ships, and were in turn succeeded by steel-clad vessels See DREAD OUGHT

Iron Cross Prussian order It was founded in 1813, and is divided into a civil and military division There are three grades

Belgium has an order of the same name was founded in 1830, and is for civilians only

Iron Gates Name given to a part of the Danube's course It is near Orsova in Rumania, where for about 2 m the river narrows This causes great rapids, and to avoid these a channel for vessels was made between 1890 and 1900 at considerable cost.

Iron Wask Man in the Unknown 17th century He was put in the Bastile in Sept, 1698, and died there, Nov. 19, 1703 He were a mask, probably of black velvet, during his face Many persons have tried to find out who he was, and a large literature has grown up on the subject Dumas treats it in the l'icomte de Bragelonne and in The Man in the Iron Mask. He may have been an illegitimate son of Anne of Austria, the widow of Louis XIII, or the Duke of Buckingham, or Nicolas Fouquet (qv) More probably he was an Italian, Count Ercole Mattioli, but there is no certainty

Ironmould Name given to reddish stains on cotton or linen fabrics It is due to the action of soluble salts of iron, as in the case of ink which usually contains ferrous sulphate. The red colour is due to the presence of ferric oxide, and the stain may be removed by the use of oxalic acid

Name given to the soldiers led Ironside by Oliver Cromwell It dates from 1649 or thereabouts, and was given to them because of their steadiness in battle

Ironside Sir William Edmund British saw active service in South Africa, and in 1914 was a staff officer In 1918-19 Ironside became prominent as Commander of the British forces at Archangel and later he was in Porcia. He was commander of the Verry He was commander of the Meerut in Persia district of India, 1928-31

Ironstone Name given to iron ores occlavey deposits, or as masses filling fissures and cavities in rocks Of these ores, haematite immonite, and magnetite may form ironstones Impure chalybite, or iron carbonate, in the form of clay-ironstone is common in carbonferous strata, and is a valuable source of iron

Iroquois Confederacy of N American Indian tribes. They included Mohawks, Cayugas, Oneidas, Onondagas and Senecas, and when they were joined by the Tuscaroras were known as the six nations. They sided with Britain in the War of Independence. To day these tribes number about 680 000 in the United States and 12 000 in 60,000 in the United States, and 12,000 in Canada

Irradiation Exposure to light rays Both the luminous and the ultra-violet rays of sunlight are employed in

by the use of the carbon arc or mercury vapour By the irradiation of inactive errosterol lamp (q r ) this substance becomes a powerful source of the anti-rachitic vitamin D See Helio

THERAPY, VITABIIN

Irrigation Means by which water is rivers or wells to increase the fertility of the land Where rivers are the sources of the land Where rivers are the sources of the water supply, welrs (or, on a large scale barrages) are used to raise the level of the water to that of the irrigation canals In many instances, to conserve the supply and regulate the flood waters of a river, huge reservoirs are built, as in North America Frynt the Sudan, India and Australia In Arizona, India and Australia, artesian wells are used for transforming barren tracts into fertile areas Examples are the use that has fertile areas Examples are the use that has been made of the Murray River in Australia and the huge dams built in Bombay and at Sukkur on the Indus

The value of irrigation as a means of making land more fortile was recognised in ancient times, and there remain evidences of its use in Me-opotamia Fgypt, Italy, Spain and other Then as now the water of a great river was diverted into canals, which were cut

across the unfertile areas

Irthlingborough Wrban district of Northampton shire It stands on the Non, and is 82 m from London Boot making is the chief industry

Pop (1931), 1609
Irvine Burgh, market town and scaport of Ayrshire on the river of the same name, 30 m from Glargow The chief industry is the export of coal, for which there is a good harbour There are some manufactures Pop

(1931) 12,032

Irving Edward Scottish divine Born at Annan Aug 4, 1792, he went to London in 1822 and, as minister of a church in Caledonian Road, and later in Regent Square became a very popular preacher. Soon he becam to preach the nearness of the second advent and in other wave gave expression to His church found him beterodox opinions guilty of heresy, and he was deprived of his ministerial status. He then joined the group of men who founded the Catholic Apostolic Church (qr) sometimes called after him Irvingites He died Dec 8 1834 Irving is known too for his association with the known, too, for his accountion with the Curlyles Jane Welsh was his pupil at Had dington, and he introduced her to Carlyle

ITVING Sir Henry English actor John Henry Brodribb was born in a Somerset village Feb 6, 1838 He took the name of Irving and soon became known as an actor of unusual gifts In 1878 he began to play in Shakespearcan and other plays with Filen Terry, the two soon becoming the acknowledged leaders of the London stage at the Lycomy lenders of the London stage at the Lyceum Theatre His successes were numerous but perhaps the outstanding ones were in The Bells Hamlet The Merchant of Venice Macbeth Laust and Becket In 1805 he was knighted, at that time an unusual honour for an actor. He died at Bradford when on tour Oct 20, 1905 and is buried in Westminster Abbey

Irving had two sons both actors. Henry Brodribb Irving was born in London Aug 5 1870 and educated at Inriborough and New College Oxford. He was a successful actor, something in his fathers sayle, and was for a time.

The younger son, Laurence Sydney Brodribb Irving, wrote several plays and appeared regularly on the stage He was drowned when

regularly on the stago. He was drowned when the Empress of Ireland sank in the St. Law rence, May 29, 1914 Irving Washington American writer Born Irving in New York, April 3, 1783, he lived rather a desultory life, chiefly because his health was poor He rend a good deal and soon began to write From 1829 to 1831 he was secretary in the American Logation in London, and from 1843 to 1846 he represented

London, and from 1843 to 1846 he represented his country in Spain He died at Sunnyside, near Tarrytown, Nov 28, 1859
Irving a writings include Diedrich Knicker becler's History of New Yorl, The Life and Voyages of Columbus, The Alhambra Legends of the Conquest of Spain, A Life of Goldsmith, A Life of Washington and many others More popular however, at least to English readers, are The Sketch Book of Geoffrey Crayon, Geniwith its pictures of English life and of Rip van Winkle and Sleepy Hollow—and Brace bridge Hall He also wrote Tales of a Traveller, an account of his visit to Abbutsford and an account of his visit to Abbotsford and Newstead

Irwell River of Lancashire It rises near to the Mersey It is 30 m long The lower course of the river has been converted into

the Manchester Ship Canal (q v)

Irwin Baron English politician Edward Frederick Lindley Wood was born April 16, 1881 being the son and heir of Viscount Halifax In 1910 he was elected Unionist M P for the Ripon Division and in 1922 he was made President of the Board of Education Later he went to the Ministry of Agriculture In 1926 he was made Vicercy of India, and he remained there for five eventful years, returning home in 1931. He was made a baron in 1926. In July, 1932 he joined the hational Government as Minister for Educa tion

Hebrew patriarch Abraham's only Isaac son by his wife Sarah he was born in their old age (Gen xxi) He married his cousin Rebekah when he was 40 years old Their twin sons I sau and Jacob, were born 20 years afterwards

Name of two Byzantine emperors Isaac I became emperor in 1057, on the abdication of Michael VI, and was the first ruler of the Comnenus family He reigned until his death in 1061, although after 1059 he lived in retirement Isaac II, called Angolus, was declared emperor in 1185 His reign was troubled by wars and risings and in 1195 his brother Alexius blinded him and put him in prison. He was restored for a few months in 1203, and died in 1204

ISAACS Sir Isaac Alfred Australian law yer, born in Melbourne, Aug 6, 1855 In 1880 he became a barrister and from 1892 1901 he sat in the Legislature of Victoria, serving also as solicitor-general and attorney general. In 1901 he was clothed the In 1901 he was elected to the House of Representatives of the Commonwealth, and in 1995 06 he was its attornoy general. In 1996 Isanes left politics to become a judge of the high court In 1930 he was promoted to be Chief Justice of the Commonwealth and in 1931 he was appointed Governor General

Isabella Adaughter of Philip IV, King time a manager. He also made himself an of Prance sho was born about 1292 and married the criminology on which he wrote to Edward in 1202 to 1 expect in criminology on which be wrote to Edvard in 1308 just after he had become The union was not happy, and about 1324, having become the lover of Roger Tortimer, she escaped to France In 1326 they returned and secured the throne for her son, Edward III, Edward II being murdered Until 1330 Isabella ruled the country, but in that year her son asserted himself Isabella was sent to Castle Rising, and there she lived for many years She died Aug 23, 1358

Isabella Name of two queens of Spain John of Castile, and was born in 1451 In 1469 she married Ferdinand, who later became King of Aragon The two conquered the Moors

Ring % Aragon The two conducted the allows and united Spain into a single monarchy Isabella died Nov 26, 1504.

Isabella II was a daughter of King Ferdinand VII She was born in Madrid, Oct 16, 1830, and became queen on her father's death in 1833 In 1843 she began to reign and in 1846 married for research of state in and in 1846 married, for reasons of state, a cousin, Francis The union was most unhappy and, after a series of insurrections, the queen was deposed in 1870, her son, Alphonso XII, becoming king Isabella died April 10, 1904

Isaiah Greatest of the Old Testament prophets A son of Amoz and of high social rank, he lived in Jerusalem According to tradition he was sawn asunder under Manasseh (Heb xi)

The Book of Isalah contains long passages of incomparable beauty. It is in two parts, of which chapters i exxix, were apparently rearranged to bring together the prophecies against foreign nations Certain portions (e.g. Chapters xiii -xiv., xxiv -xxvii), together with the second part (chapter lxvi) show post-exilic influence and therefore some modern scholars believe they were written by another hand.

Isandula Settlement in Natal, near the Tugela River, 105 m from Durban Here, on Jan 22, 1879, a small British force, consisting of 800 men of the South Wales Borderers and a few natives, was attacked by 10,000 Zulus After a hard fight the British force and camp your destroyed. fight the British force and camp were destroyed

alcohol, the solution being brownish-red in colour Isatin is the source of a number of important dyes

Isfahan City of Persia and the former capital It is 200 m to the south of Tcheran, standing about 5000 ft above the sea It has a considerable trade and some manufactures and there are remains of its former size and greatness In 1917 the city was occupied by a British force The name is sometimes spelt Ispahan and its old name was Aspadana Pop 100,000.

Ishmael Son of Abraham and Hagar He was exiled with his mother to the wilderness on account of Sarah's jealousy of him He married an Egyptian, was famed as an archer and was buried in Mecca Mahomet claimed him as an ancestor

Ishtar Babylonian goddess, probably the mother of all life and the Goddess of Love and War She was worshipped at Babylon, where there was an Ishtar gate, Ninevah and else where There is a reference to her in Jer zliv

cookery and in the clarifying of intoxicating

liquors Egyptian goddess She was the wife of Osiris and the mother of Horas ISIS Originally she was the earth goddess and afterwards became the moon goddess. She was also worshipped in Italy and Greece

Name given to that part of the Thames ISIS that flows past Oxford See THAMES.

Word used for the Mohammedan Islam world 1814111 world It means in Arabic maker of peace, and appears in the Koran as a term for the religion of Mahomet

Islands Bay of Name of two bays One is in Newfoundland being an opening on the west coast. The other is on the east side of North Island, New Zealand.

One of the Hebrides, part of the county of Argyll It is 25 m long, covers 235 sq m, and is almost cut in half by two lochs Bowmore is the chief town, other places are Bridgend and Port Ellen. people are chiefly engaged in agriculture island is best reached by steamer from Glasgow. Islay was the headquarters of the Macdonalds. Lords of the Isles On its most southern point is a memorial to 400 American soldiers and seamen who were drowned when the Tuscania was torpedeed in Feb, 1918 Pop. 6300.

The Sound of Islay, about 13 m. long,

separates the island from Jura

Isleham Village of Cambridgeshire, 17 m from Cambridge and 6 from Newmarket, on the L N.E Rly Near is Isleham Fen, which was partly drained by prisoners of war in 1918-19 Pop 1650.

Middlesex Isleworth stands on the Thames, 12 m Town of from London, on the S Rly There are some manufactures With Heston, Isleworth forms a borough (or in 1933) See HESTON

Islington One of the 28 boroughs of the county of London To the north of the city, it is reached by tube railways, Isatin Basic dyestuff It is prepared by the oxidation of indigo with nitric acid It crystallises in reddish-yellow prismatic crystals, which dissolve slightly in cold water but more readily in hot water and in traffic centre Pentonville, with its prison, is residential district and Finsbury Park a great traffic centre Pentonville, with its prison, is also in the borough The name Merrie Islington was given to the district because of the pleasure gardens that existed here in the 18th century. Pop (1931) 321,712 century

Ismail Khedive of Egypt A son of Ibrahim Pasha, he was born Dec 31, 1830 and educated in Paris In 1867 A son of In 1867 he was made khedive Ismail is known as the khedire who had much to do with the building of the Suez Canal He was, however, very extravagant and this led to his abdication in 1879 He died in Constantinople, March 1895

Ismailia Town of lower Egypt Situated on Lake Timseh it is about halfway between Port Said and Suez and 93 m by rail from Cairo Established during the construction of the canal, it was, during the War, an important headquarters of the Allies It is also famous as the scene of the first scientific assault on malaria

Ismay Thomas Henry English shipowner. Born at Maryport, Jan 7, 1837, his father was a shipbuilder and he himself Isinglass Whitish gelatinous substance entered a shipping office in Liverpool In the sturgeon and other fish, and is used in uncleus of the White Star Line, and with his

Ismet Pasha Turkish statesman Born army in 1903 and took part in the Young Turk revolution in 1908 and served in the Great War Furkish statesman Born Joining the national party he reorganised its forces In 1922 he was foreign minister and since 1924, as prime minister of the new republic he has taken a leading part in the reorganisation of the country

ISODAT Term used in meteorology for a party property of the prope

Isobar Term used in increeding through places where the atmospheric pressure is the same at a stated time Isobars are shown especially on weather maps, drawn usually for every tenth of an inch, the pressure being reduced to sea level and indicated in inches of barometric The and millibars gradient is shown by the nearness or distance between the isobars, thus where close together cyclonic weather is indicated, and where far apart anticyclonic conditions provail

Isocline Term used in geolog, to the arrangement of strata where all the beds appear to dip at a high angle in the same direction. Such beds occur in the Term used in geology for the south of Scotland

Isocrates Greek orator Born in 436, lie was a pupil of Socrates and founded a school of orator, in Athens his speeches 21 are extant Isocrates exercised great influence on writing and oratory, both in Greece and Rome He is said to have committed suicide after Philip of Macedon had defeated the Athenians at Charonea

Isolation Medical term for the segregation of persons suffering from in fectious complaints so as to prevent the spread of the disease. For this purpose special isolation hospitals away from a town or city are provided for cases of small pox and certain kinds of fever and other contagious diseases

Isomerism Term used in chemistry for compounds which have the same number and kind of atoms but the arrangement is different in each case Many instances of feomerism occur among the carbon compounds thus among the parallins the formula C. II., represents two feomeric substances butano and sobutano, each having

different physical properties

Isomorphism Term used in chemistry, applied when various compounds have the same crystalline form In some cases the compounds have the same number of atoms and are similarly combined as with the two isomorphous sulphates of zinc and magnesium, in others the number of atoms differs but the compounds have chemical analogies to each other as with ammonium and potassium chlorides

Isonzo River of Italy It rises in the Alps and flows southwards into the Gulf of Trie-te Gorizia and Tolmino are on its banks and its length is 50 m. There was a grood deal of fighting along this river between the Austrians and the Italians in 1915 1916 and 1917, and five battles of the Isonzo have

and 1917, and nye marries of the war been recognised by historians of the war. The first battle took place in June, 1915 and the whole without remained with the on the whole victory remained with the Italians. The same may be said about the second battle which took place in July. The first hattle a long struckle in Oct. Now and Dec. of 1915 was indecisive.

The first hattle are a distinct victory.

partner, William Imrie, developed this line on the 9th, Gorizia, their main objective in enormously He died Nov 23, 1899 previous battles, was entered The fifth and last battle took place in May, 1917, and was an Italian success The gains, however, were lost before the end of the year, owing to the Italian defeat at Caporetto

Isostasy where pressure is equal on all sides of a body An example is the case of a submerged body at rest in a liquid in a state of hydrostatic equilibrium

In goology the term is applied to the theory of the general equilibrium in the earth's crust.

Isotherm Line drawn upon a map passing through places where the temperature of the air is the same at a stated time The temperatures indicated by the isotherms are corrected so as to refer to the temperature value of sea level. If these lines be regarded as the edges of isothermal surfaces meeting the earth's surface, then where the isotherms are far apart over a cold area the isothermal surface will be flat or saucer shaped. and where close together over a hot area the surfaces will be dome shaped

Isotope Element which, chemically, is identified with another element, but which has a different atomic weight

Isotropy Term used in crystallography for the condition met with in crystals of the cubic system. In this a ray of light entering the crystal is only refracted just as occurs with glass, such crystals being termed sincly refracting or isotropic Between the polarisers of a microscope, cubic crystals remain quite dark during rotation

Israel Collective name for the Jews Meaning he that striveth with God' the name was given to Jacob on his way to the chosen land and was later applied to his descendants, the twelve tribes

Issachar son of Jacob and an Israelitish Issachar tribe He was the ninth son of Jacob, the fifth by Loah The tribe occupied land in Palestine bounded on the east by the Jordan and including the plain of Esdraelon, the scene of many decisive battles in the subsequent history of the race

Legic Former scaport of Asia Minor, on

ISSUS the Gulf of Alexandretta It ly notable because here in 333 Be. Alexander the Great defeated the Persians in one of the memorable battles of the ancient world

Istanbul City and scaport of Turley formerly known as Constanti nople and the capital of the country. It stands on the Sea of Marmora and the Bosporus harbour is formed by the Golden Horn, an arm of the sea which divides the city into two parts On the south is the old Furkish city and on the north Galata and Pera the former being the business and the latter the foreign quarter The Greeks, Jews and Arms mans have also their particular districts and the city also includes centari on the other side of the Bos porus It is on the main railway line to Asia Minor on the air route to the Last and has a broadcasting station (1200 M 5 LW) At one time the population was about 1 350,000 but it has now shrunk to some 600 000 1931 it vas decided to replace the city

Istembul is full of interesting buildings. The

most notable are the Mosque of S Sophia, once most notable are the mosque of the places one of cupled by the sultans one being the Yildiz kins! There are many other mosques the Christians have a number of churches and the The fourth battle vies a distinct victory Christians have a number of churches and the for the Italians It began on Aug 1, 1916 and Jews have their spaneogues. There is a uni

versity and several colleges Walls and gates still surround the original city A bridge and a bridge of boats cross the Golden Horn city has many manufactures and a large trade both by land and sea, but it is less prosperous than it was when it was the capital

of the empire

Istanbul, also called Stambul, stands where the Greeks built the city of Byzantium It owes its existence and its early name to the Emperor Constantine the Great who founded it in 330 On the division of the Roman Empire it became the capital of the eastern part, and from 1204-61 was the capital of a Latin kingdom founded by the Crusaders With the exception of this period it remained under the successors of Constantine until 1453 when it was taken by the Turks It was the Turkish capital until after the Great War, being then replaced by Angora It was occupied by allied troops from 1918 to 1923, when it was restored to Turkey

Isthmian Games Festival of Greece It was held every second year near Corinth in honour of Poseidon It consisted not only of races and other athletic contests, but of iterary competitions

Isthmus Narrow neck of land connecting two larger land areas, or by which a peninsula is united to the mainland The Isthmus of Suez unites the continents of Asia and Africa

Istria District of Italy It is at the head of the Adriatic Sea and covers 1900 sq m, its area including certain islands Pola is the largest town and the Quieto the chief river Until 1919 Istria was part of Austria

Form of printed type and hand-Italic writing which slopes to the right.

It was first used in 1501 for an edition of Virgil by the Italian printer, Aldus Manutius, who sought to regularise the cursive script of his time. Italic type is used nowadays of importance completes words of importance. for expressing emphasis, words of importance. foreign words, etc

Italy Kingdom of Europe In the south main a peninsula almost surrounded by arms of the Mediterranean Sea It includes It includes arms of the Alediterranean Sea It includes the islands of Sicily and Sardinia, and a district in the NE around Trieste and Fiume that, before the Great War, was part of Austria Its total area is 119,713 sq m, and it has a population of 41,176,671 (1931) There are about 9,600,000 Italians in other countries Within its borders, but outside its authority, are two little states, the Vatican and the republic of San Marino

The country is divided into departments.

The country is divided into departments, but the older names for the various districts are still in use Such are Piedmont and Lombardy in the N. Tuscany and Umbria in the centre, and Calabria and Apulia in the S Rome is the capital Other places with over 500,000 inhabitants are Naples, Genoa, Milan and Turin Next in size are Palermo, Florence, Venice, Trieste, Bologna, Catania, Messina and Verona From the historic and artistic point of view, some of these are among the most famous cities of the world, and there are many others, smaller but only a little less famous, such as Ravenna, Pisa, Parma, Modena and Mantua.

Po, Arno and Plave, are short. There is a long constiline on which are many scaports and pleasure resorts, but the harbours are not particularly good. The scaports include The seaports include ce, Trieste, Catania, Genoa, Naples, Venice, Trieste, Catania, Palermo, Leghorn, Messina, Taranto, Brindisi and Fiume Some of these are naval stations, as are Pola and Spezia

With much rich soil in the valleys, Italy is agricultural country. It produces large an agricultural country quantities of fruit, as well as wheat, maize and potatoes The fisheries are valuable, and many of the inhabitants are fishermen The mineral wealth is not great, but the manufactures, especially in the north, have become important, and Turin and Milan are centres of industrial activity, with textile factorics, engineering works and the like The country has a good railway system and its air services are very efficient. There was an earthquake in Central Italy in 1933

Italy is governed by a king and a council of inisters To represent the people there is a chamber of deputies and a senate, but since the establishment of the system known as Fascism, the real power has been with the council of that organisation, and its head, Mussolmi, occupies the position of a dictator

The country has a large army, recruited on the principle of universal service, a navy and an air force The people are mainly Roman Catholics, but there is no state church, and the relations between the government and the Pope are usually rather strained There is a system of education for all, controlled by the state Under this schools and colleges are everywhere Some of the Italian universities are among the most renowned in the world. There is a system of justice at the head of which is the Court of Cassation in Rome The unit of currency is the lira which in 1927 was stabilised at 92 46 to the £ sterling

Italy has a large colonial empire, chiefly in Africa It includes Eritrea, Somaliland, Tripolitania and Cyrenaica In Europe it has the Aegean Islands

Until modern times Italy was raphical expression Rome was HISTORÝ. merely a geographical expression Rome was the heart of the great Roman empire, and when Rome fell Italy was overrun by barbarians In 800 it became part of the empire founded by Charlemagne, and it was nominally included in the Holv Roman, or Mediaeval, Empire until its dissolution in 1806 In reality, however, it was divided into a number of independent, independ or practically independent states. Some of these were republics such as Venice and Genoa Some of Naples was a kingdom In others such as Florence and Milan, members of a rich family, or soldiers of fortune, established themselves as hereditary rulers The Papal States stretched across the Peninsula from Rome to the Adriatic

Among the less important rulers in Italy was the Count of Savoy, who in 1416 was made a duke In 1418 he obtained Piedmont and in 1713 his successor secured Sicily, which in 1720 he exchanged for Sardinia At this in 1720 he exchanged for Sardinia At this time he took the title of king, and in 1815 the reigning king secured further territory in

Italy

In the 19th century the King of Sardinia was the centre of the movement for the union of Italy, and gradually the various districts came under his rule Lombardy was secured On the whole Italy is a mountainous country in 1859, Tuscany and other areas in 1860 In the north are the Alps and in the centre, the Apennines The rivers, although of great was declared King of Italy In 1866 he se-historic interest, such as the Adige, Tiber, cured Venice and in 1870 the papal states,

Vatican itself The difficulty | cruelties except the with the Vatican, which remained outside tran He did in 1884 the kingdom, was not adjusted until 1928 In 1900 Victor Emmanuel III became king In 1915, Italy having broken away from the Triple Alliance entered the war on the side College, Dublin He

of great Britain and France, and carried on After several campaigns against Austria defeats her armies were in the end victorious, and certain parts of Austria were secured at the peace treaty. The period after the war was one of great economic and social unrest which led to the march on Rome in Oct 1922 and the establishment of a Fascist government there. Under this regime considerable economic progress was made The haseist government grew in power Mussolini became dictator and assumed an ever larger degree of executive authority Several attempts were made on his life In 1932 he launched a scheme to rebuild Rome and in 1931 entered diplomatic relations with Austria and Hungary

In Dec, 1934 the "Wal Wal Incident "-a clash between Italian and Abyssinian troops at Wal Wal in Italian Somaliland—caused friction which led to the Italo-Abvesinian War Italy refused League arbitration and started to mobolise In Oct 1935 Italian troops invaded mobolise In Oct 1935 Italian troops invaced Abvssinia bombed Adowa and captured Adigrat A few days later war was officially declared On 28th Oct began the long and ardinous advance on lakale and Jan 1938 saw a 3 days battle in the Temblen Heights In Feby 1936 the Italians claimed an important victory in the battle of Enderta Meanwhile sanctions relating to oil coal iron and the later has been been supported by the later wars invased against and other key products were imposed against Italy by the League of Nations and an embargo placed on arms and ammunition, and on financial dealings with Italy

Itchen River of Hampshire It rises near Alresford and flows into Southampton Water, which it enters by a tidal estuary Winchester stands on its banks, and it is famous for its trout and for its associa tions with Isaak Walton

Another Itchen is a tributary of the War

wickshire Avon

Itchen is the name of a suburb of South npton Before 1920 it was a separate urban ampton district

Ithaca One of the Ionian Islands 45 and in extent and almost divided into two parts by a gulf Vatky is its capital. The people are chiefly employed in agraculture and fishing. Ithaca is famous as the home of Odysseus being the sea-girt land so often mentioned by Homer

In 1580 he murdered his son,

Iveagh Earl of Born Nov 10, 1847, he was a son of Sir B L Guin-ness, Bart and was educated at Trinity ness, Bart and was educated at Trinity College, Dublin He entered the firm of Arthur Guinness, Sons & Co, and was for many years its chairman In 1885 he was made a baronet, in 1891 a baron, in 1905 a viscount, and in 1919 an earl Ho died Oct 7, 1927, being succeeded by his son succeeded him as M P for Southend

Lord Iveagh was known for his great wealth and munificent charities He established, in 1889 the Guinness Trust, later known as the Iveagh Trust, for previding houses in Dublin and London, and gave large sums to hospitals and the like He left one of his seats, Ken Wood, Hampstead and some

valuable pictures to the nation

Ivory Hard white dentine of the upper incisors or tusks of the elephant The term is also used to include a similar but inferior substance from the hippopotamus, walrus and narwhal It is fine grained, translucent, uniform in texture and white or yellowish in colour African ivory is the best for most purposes, the Asiatic variety being coarser and tending to become yellow Ivory is used for plano Leys, on exposure and also for carving into ornaments

Ivory Coast District of W Africa and the Gold Coast Colony of Great Britain. and belongs to France Part of Upper Volta was added in 1932 Total area, 180,802 sq in The capital, which was formerly at Bingerville is now at Abidjan Ports include Grand Bassam, Assinie and Sassandra Inland towns are Abidjan, Abolsso and Bouake There is a and rubber are grown mahogan; is cut, and palm oil and kernels are exported Pop (1933) 3,743,382

IVIY Name of two places in France One of them is on the Eure 42 m from Paris Here on March 13, 1590, Henry IV gained a great victory over his enemies, the Gulses and their friends Macaulay's ballad

on the fight is well known

The other Ivry is a suburb of Paris It is on the Seine about 5 m to the south of the city Ivy Evergreen shrub of the order araluceae
Lvy Evergreen shrub of the order araluceae
Africa It is found in Furope Asia and N
Arrica It climbs by means of aerial roots,
and bears two kinds of leaves the ordinary
the lobed leathers leaves on the climbing shoots, and simple oval leaves on the flowering stems The yellow-green flowers are suc-ceeded by small black berries.

Ivan Name of four rulers of Russia The first two were Grand Dukes of Moscow who lived in the 14th century Ivan London on the GW Riv The River Ermo III., called the Great reigned from 1462 to fine extended its area i suid laws made treaties with western rulers and tool as his crible in the Roman Lande Ivan IV, called the Terrible who reigned from 1517 to 1554 was the first to take the title of far He carrie i on the worl of Ivan III, but I red to seduce Heru, so was sentenced to the first town but I received where he was tied to an over but later carned the epither of terrible by his moving wheel

Ancient city of Palestine Its inhabitants rescued the bodies of Saul and his sons from the Philistines, earning David's gratitude (1 Sam xxi) It was in Gilead, E of the Jordan, but the exact spot has not been identified.

Jaborandi Plant growing in Brazil and the drug pilocarpine is prepared It is used as a hair tonic, and internally to cause perspiration

Jaborosa Flowering plant, growing m and bearing white, fragrant flowers It is propagated by separating the long, creeping stems When this is done the plant is believed to make a shricking noise

flies, keeping long, motionless watches on tree branches Their plumage, often brilliantly bronze green, resembles that of humming birds

Jack Word in its primary meaning a familiar or diminutive form of the name John From its use as a general name for a boy or servant, it was applied to devices which supplied the place of a helper, as, for example, a boot-jack, a contrivance for turning a spit, a miner's wedge, and a screw or other appliance for raising heavy weights It is also It is also the name of the small ball in the game of bowls, up to which the bigger, wooden balls have to be bowled

Carmvorous mammal of the dog lackal Jackal genus It is found in south-east Europe, Africa, and Asia Often hunting in fruits They can be tamed, and will interbreed with domestic dogs The common jackal (Cans aureus) is 2 or 2½ ft. long, and 15 in. high The North African variety is larger, and the so-called Egyptian Wolf larger still

Jackass Male of the domesticated donkey its alleged lack of intelligence led to the name being applied contemptuously to stupid persons. One of the Australian food fishes is called the jackass fish The jackass penguin is a S American braying species Soveral N American prayile hares are called Jackass rabbits See LAUGHING JACKASS.

Jack Boot Heavy riding boot, with long flap reaching above the knee, stoutly protected at the instep Troopers wore them in England in the 17th century, and they became modified into the high kneeboots of the household cavalry. The name denotes also the similar footwear of postilions, and that of modern fishermen and sewermen

Bird of the crow family lackdaw is smaller than the rook, and may be distinguished by its white eyes, smaller beak, and grey neck. It can be easily tamed, but as a pet it is very troublesome and mischevious. It is common in Great Britain, and generally builds in holes in the masonry of church towers and other buildings The food is mainly worms and insects

Lawrence Pearsall English theologian He was born at Nottingham Gothic architecture.

ABESH-GILEAD in 1860 and educated at Manchester College Oxford Gottingen and Harvard He entered He entered the Unitarian ministry in 1887 as assistant to Dr Stopford Brooke He became editor of the Hibbert Journal in 1902 and was Principal of Manchester College, Oxford, from 1915 to 1931 His writings include Legends of Smol cover, The Faith of a Worl er, Constructive Citizenship and other books

Jackson Andrew American President Born March 15, 1767, in 1796 he was elected a member of Congress and in 1798 was made a judge, but he made his reputation as a soldier. He led the American forces against the British in 1815, and in 1818 against an Indian tribe, in both cases successions and in the sold between the fully In 1821-23 he was Governor of Florida, and in 1823-25 a member of the Senate In to make a shricking noise

Tacamar Name of a family of S American
She was elected President, and he was reelected in 1832 He left office in 1836 and died
June 8, 1845 To Jackson, who was a Democrat,
they bore nesting holes in river banks, and
is attributed the introduction of the spoils
there lay their eggs They are expert in catching
system into American politics

Jackson Sir Barry Vincent. English mingham, Sept 6, 1879, he founded a company of players in 1907 In 1913 he started the Birmingham Repertory Co, to the direction of which he returned after serving in the navy during the Great War In 1925 he was knighted Among his productions are Abraham Lincoln, The Immortal Hour, Back to Methusclah, The Apple Cart, and several Shakespearean plays in modern dress

Jackson Sir Francis Stanley. English Nov 22, 1870, he captained the Cambridge eleven in 1893, and for many years played for Yorkshire In 1905 he was captain of England Often hunting in in the test matches against Australia, and he packs, jackals feed on living prev, carrion, and played for the Gentlemen and in other representative matches, proving himself one of the greatest all-round cricketers of his age Jackson Served in the Boer War and during the Great War commanded a battalion In 1915 he was elected Unionist M.P. for Howdenshire, and in 1922 he was made Financial Secretary to the War Office In 1923 he became chairman of the Unionist organisation, and in 1927 Governor of Bengal, relinquishing the latter office in 1932

Jackson John English pugilist Born in London, Sept 28, 1769, in 1795, after defeating David Mendoza at Hornchurch, he became champion of England, a title he kept until 1803 in 1795 he set up a school of boxing in Bond St., London, which became very fashionable He was acquainted with the Prince Regent, afterwards George IV, and his courtesy won him the name of Gentleman Jackson He died Oct. 7, 1845

Jackson Be slice Thomas Graham English architect Born in London, Dec. 21, 1835, during a long professional Dec. 21, 1835, during career, he designed buildings for several colleges at Oxford and Cambridge, and for some public schools, including Harrow and Winchester His restoration work included Winchester Winchester Cathedral, and the great churches at Bath, Malvern, and Christchurch Jackson was Malvern, and Christchurch Jackson was clected A R A in 1892 and R.A in 1896 In 1913 he was made a baronet, and he died Nov 7, 1924 He wrote several books on Gothic mobile of the conditions of He wrote several books on Jackson Thomas Soldier Born in West Virginia, Jan 21, 1821 he was after Lee, the most renowned of the southern generals during the Civil War, winning for himself the name of Stonewall Jackson After the Battle of Chancellors ville he was accidentally shot by his own men and died May 10, 1863

Jacksonville City and scaport of Florida, on the St John's river, near its mouth in the Atlantic Ocean There are large modern docks and a number of manufactures Pop (1930) 129,919

Jacob Jewish patriarch With Esau he was the twin son of Isaac and His deceit and his mother's won for him the birthright from Lsau and the paternal blessing (Gen xxvii) He went to his uncle, Laban whom he served for 14 years receiving in return his daughters Leah and Rachel as his wives His concluding days were passed in Gosban in Leyp tr where his son Joseph hold a high position There he died at a great age Jacob had twelve sons, from whom the twelve tribes of Israel were descended

Jacobean Name given to anything associated with the name James, the Latin for which is Jacobus The Jacobean style in furniture and architecture lasted from 1603 to 1688 Jacobean furniture is chiefly of oak, heavy in appearance but sometimes very beautifully carved Jacobean houses are plain in style but are often very graceful in appearance, with fine panelling and plaster work Charlton House, near London, and Bramshill House in Hampshire are good examples

Jacobins French political society It arose during the French Revolution and consisted of mon who wished for constitutional reform of a moderate kind They were named Jacobins because they met in a building in the Rue St Honore Paris, belonging to the Dominic in order, called in France the Jacobin I attritis members became more extreme in their views and carried out the reign of terror, but its power ended in 1791 with the execution of Robespierre, and attempts to revive it failed and Europe for the holders of extreme opinions It was to combat these that the paper called The Anti Jarobin was founded in 1797

Jacobite Church Christian com after Jacob Baradaeus missionary Bishop of I de sa (d. 578). He reorganised the Syrian monophysite church which became powerful in the Middle Accs in Asia Minor and Egypt The church still exists its head being the patriarch of Antioch

Jacobites have given to those who does will age William and Mary (and afterwards the Georges) as rulers bell vin, that James II and his descendants were the rightful kings. The Jacobites were strong in Scotland and Ir. land and there were a number in England until well into the 19th century but it ceased to be a scrious movement after the rising of 174, had been erushed

The few remaining believers in the claim of the few remaining believers in the claim of the few arts to the throne call thems lives to thim the To them Prince Rupprecht of flavors descended from the daughter of Clarics I is the rightful king of Great Britain. They have a country and clubs and remem

American | ber Jan 30, the day on which Charles I was t Virginia, executed

Jacobs William Wymark English writer Born in London, Sept. 8, 1863, he was for many years a clerk in the Post Office He soon began to write short stories and made his name with a volume called Many Cargoes, 1896 followed by Light Freights, Caplains All, Ships Company, Night Watches, Deep Waters, and in 1926, Sea Whispers He wrote longer stories in the same vein The Skipper's Wooting Dialstone Lane, Salthaven and At Sunwich Port The stories deal mainly with the humorous adventures of seamen and bargemen Jacobs has also shown himself a master of the occult type of story, and The Monkey's Paw and others are masterplaces of their kind

Jacobus Gold coin It was struck only (hence its name, Jacobus being the Latin for James) and its value was 25s

Jacquard Joseph Marie French in Lyons he followed his fathers trade of weaver, and after a time invented a loom, which was a great improvement on those then in use, as it enabled figured patterns to be woven This was patented, and with improvements is still used for the weaving of silk and other textiles, as well as tapestries, carpets, and lace Jacquard died Aug 7, 1834

Jacquerie Rising of the French peasantry It occurred in 1358, when, as the result of the ravages of the Luglish in the Hundred Years War and other circumstances, the condition of the peasants was very bad indeed It began in Normandy and spread to Paris, but was soon suppressed The name is taken from Jacques Bonhomme a term used for the French peasant

Jactitation of a false pretension of marriage If a person pretends to be married to another, the latter may sue him, or her, for jactitation of marriage Such suits are rare

Jade Mery hard compact variety of the mineral, tremolite It consists essentially of silicate of magnesia and lime Two varieties occur, white jade found in China, and green jade, or greenstone, in New Zealand A similar soda-containing mineral, jadelte, is often confused with true jade Both minerals are used as ornamental stones

Jael Wife of Hober the Kenite (Judges iv v) The Canaanites under Sisera, a general of the King of Huzor, attacked the Israelites but were routed by Barak Sisera took refuge in Jaels tent, and when sleeping was tracherously slain by her—an act lauded in the Song of Deborah

Was transferously stain by her—an act lauded in the Song of Deborah
In the Song of Deborah
Jaffa Scaport of Palestine Anciently
Mrditerranean Sea 50 m from Jerusalem It
has a trade in vool olive oil, and the oranges
to which it gives its name In 1917 it was
captured from the Turks by Australian and
New Zealand troops Pop (1931) 51,366

Jagersfontein Town of South Africa, state, 48 m from Springfontein It is the site of an important diamond mine in which the most perfect diamond ever discovered was found in 1895 Pop 4 000

Jaguar Animal of the cat tribe, found in both North and South America it corresponds to the Icopard of the old world,

but its head is somewhat larger. It averages out its flead is somewhat larger. It averages 4 ft in length The colouring is a rich tan with small black spots and black-spotted rosettes, black varieties occur It preys upon monkeys, peccaries and turtles, as well as horses and cattle, and is an agile climber, resting on tree branches in the daytime

Jain Member of a Hindu religious sect This cult developed from Brahmanism in the 6th century, Bc, but gave up some of the main teachings of that faith, including the caste system and the Vedas Its own religious books date from about 500 Bc The Jains believe in the future life for almost all animate nature and refuse to kill anything They are found in the N W parts of India and number about 1,000,000, chiefly prosperous traders. The Jains have built some remarkable temples, one of the finest being at Calcutta

Jaipur Stato and city of Rajputana, and came under British protection in 1818 It covers 15,579 sq m Pop (1931) 2,631,775 The city is an important railway centre Near it is Amber, the former capital of the state

Jaisalmir State of India It lies to the of the Rajput states Its capital is a town of the same name The ruler is a maharajah and the people chiefly Hindus The area is 18,060 sq m Pop 76,255

Jalalabad Afghan town It is situated on the Kabul river, near the Khyber Pass, between Kabul and Peshawar It was the scene of a heroic defence by a British force under Sir Robert Sale during the Afghan War of 1841-2

Jalap Swift purgative drug First imported from Jalapa in Mexico, it is obtained from resins in the tuberous roots of several convolvulaceous plants of the genus ipomaea It is rich in glucosides and is used in cases of dropsy

Jam Indian title The word, which is of Tartar origin, like khan and cham, means chief It was borne by the rulers of Las Bela, a state of Baluchistan, and of Nawanagar, the latter of whom was the famous cricketer, Ranjitsinhji

Jamaica Largest island of the British West Indies In the Caribbean Sea, 90 m S of Cuba, it belongs to the Greater Antilles group, and was discovered by Colum bus in 1494 in 1655 the English took it from Spain A mountainous isle, with peaks reaching 7360 ft in height, it is very fertile, agriculture flourishes, and fruit, tobacco, sugar, coffee and cocoa are produced The vegetation is rich and the climate agreeable, but the island is subject to carthquakes and hurricanes With its dependent islands, which include the Turks and Caicos Islands and Cayman Islands, it is administered by a governor and a legislative council

council

Kingston is the capital and the chief sea
port Spanish Town is the old capital British
and American currencies are used. The area is 4450 sq m, and the island is 144 m long Pop (1931) 1,050,667

Jamboree Word of American-Indian gathering of the tribes It has been adopted by the Boy Scouts for an international rally, held periodically The first was held at Olympia, London, in 1920 Jamboree is also the name of a magazine for Boy Scouts, founded in 1921

James River of Virginia, USA It is pasture and Jackson rivers, and, after a course of some 450 m, empties into Chesapeake Bay through a large estuary Richmond is at its head of navigation, which extends for 150 m Another James River, a tributary of the Missouri, flows through Dakota

James Saint and apostle Son of Zebedee and Salome, he and his brother John were Galilean fishermen whom Jesus called to be his disciples. He was one of the three especially honoured by Christ and was an influential figure in the apostolic church. He was beheaded by Herod Agrippa He is commemorated on July 25, and is the patron saint of Spain, where his shrine at Compostella was one of the most famous in Europe

James Brother of Jesus Christ (Matt made him a son of Joseph by a former wife or by Mary after Christ's nativity After the Resurrection he became a pillar c. the church at Jerusalem and its first bishop

James Epistle of Book of the New Testa-it to our Lord's brother, Jerusalem's first bishop, whose regard for the Mosaic law was overlaid by the law of love He addresses the overland by the law of love first addresses the infant church wherever dispersed, not Jewish Christians only, inculcating duties of practical morality, such as abstaining from sycophancy and unruliness of speech, evidencing faith by actual works, combining in prayer, especially in seasons of suffering and sickness, and recognising the importance of the individual soul nising the importance of the individual soul

James I. King of Great Britain. Born the son of Mary, Queen of Scots, and Lord Darnley, he was proclaimed King as James VI in 1567 As a child he was delicate and throughout life remained ungainly, but he had considerable abilities and was very consignily educated His minority, marked by struggles for his person between the nobles, ended in 1583, and for 20 years he ruled Scotland His 1583, and for 20 years no ruled Scotland His belief in episcopacy was disliked by many of his subjects, but he maintained this policy until bishops were established He showed energy in dealing with risings of the nobles, and on the whole his reign was successful, if unpopular His indifference to his mother's imprisonment, and especially to her death, is generally recorded as a blot on his moreover. generally regarded as a blot on his memory

In March, 1603, James became also King of England, and the rest of his life was passed in Failing to understand country English character, he can hardly be called a popular or successful ruler His partiality for certain worthless favourites disgusted many, and his religious ideas were heartly disliked by both Puritans and Roman Catholics His foreign policy was neither consistent nor wise, and his quarrels with parliament had a bearing

on the troubles of the next reign He died at Theobalds, March 27, 1625

James married, in 1589, Anne, daughter of the King of Denmark His eldest son, Henry, the King of Denmark his entest son, henry, died in 1612, and the second, Charles, succeeded him From his daughter, Elizabeth, the present royal family is directly descended James was something of a thinker, and in his Basilicon Doron and The True Law of Free

Monarchies he set out his ideas on government He also wrote Counterblaste to Tobacco, and an attack on witchcraft.

James II. King of Great Britain The

704

Jackson Thomas Jonathan American Soldier Born in West Virginia Jan 21 1824 he was, after Lee the most renowned of the southern generals during the Civil War, winning for himself the name of Stonewall Jackson After the Battle of Chancellorsville he was accidentally shot by his own men and died May 10, 1863

Jacksonville City and scaport of Florida, on the St John s rivor, near its mouth in the Atlantic Ocean There are large modern docks and a number of manufactures Pop (1930) 129,949

Jacob Jowish patriarch With Esau he was the twin son of Isaac and Rebelah His deceit and his mother's won for him the birthright from Fsau and the paternal blessing (Gen xxvii) He went to his uncle, Laban whom he served for 14 years receiving in return his daughters Leah and Rachel as his wives His concluding days were passed in Goshen in Egypt where his son Joseph held a high position There he died at a great ago Jacob had twelve sons, from whom the twelve tribes of Israel were descended

Jacobean Name given to anything associated with the name James, the Latin for which is Jacobus The Jacobean style in furniture and architecture lasted from 1603 to 1688 Jacobean furniture is chiefly of oak, heavy in appearance but sometimes very beautifully carved Jacobean houses are plain in style but are often very graceful in appearance, with fine panelling and plaster work. Charlton House near London, and Bramshill House in Hampshire are good examples.

Jacobins arose during the French Revolution and consisted of men who wished for constitutional reform of a moderate kind They were named Jacobins because they met in a building in the Rue t Honore, Paris belonging to the Dominican order called in France the Jacobin Later its members became more extreme in their views and carried out the reign of terror but its power ended in 1791 with the execution of Robespierre and attempts to revive it failed The word Jacobin was much used in Britain and Europe for the holders of extreme opinions It was to combat these that the paper called The Anti Jacobin was founded in 1797

Jacobite Church Christian com after Jacob Baradaeus missionary Blshop of Ide-sa (d. 578). He reorganised the Syrian monophysite church which became powerful in the Middle Ages in Asia Minor and Egypt The church still exists its head being the purlarch of Antioch

Jacobites Name given to those who ledge William and Mary (and afterwards the George 4) as rulers believing that James II and his descendants were the rightful kings. The Jacobites were strong in Scotland and Ir land and there were a number in Lugland until well into the 19th century but it ceased to be a serious movement after the rising of 174, had been cru hed

The few remaining believers in the claim of the Stewarts to the throne call themselves legitimite. To them Prince Rupprecht of Pavaria descended from the daughter of Charles I. Is the rightful king of Great Britain. They have a colations and clubs and remem-

American | ber Jan 30, the day on which Charles I was

Jacobs William Wymark English writer Born in London, Sept 8, 1863, he was for many years a clork in the Post Office He soon began to write short stories and made his name with a volume called Many Cargoes, 1806 followed by Light Freights, Caplains All, Ship's Company, Night Watches, Deep Waters, and in 1926, Sea Whispers He wrote longer stories in the same vein, The Skipper's Wooning Dialstone Lane, Salthaven and Al Sunvich Port The stories deal mainly with the humorous adventures of seamen and bargomen Jacobs has also shown himself a master of the occult type of story, and The Monkey's Paw and others are masterpieces of their kind

Jacobus Gold coin It was struck only (hence its name, Jacobus being the Latin for James) and its value was 25s

Jacquard Joseph Marie French in-Born July 7, 1752, at Lyons, he followed his fathers trade of weaver, and after a time invented a loom which was a great improvement on those then in use, as it enabled figured patterns to be woven This was patented, and with improve ments is still used for the weaving of silk and other textiles, as well as tapestries, carpets, and lace Jacquard died Aug 7, 1834

Jacquerie Rising of the Fronch peasantry It occurred in 1358 when as the result of the ravages of the English in the Hundred Years War and other circumstances, the condition of the peasants was very bad indeed It began in Normandy and spread to Paris, but was soon suppressed The name is taken from Jacques Bonhomme, a term used for the Fronch peasant

Jactitation of a false protonsion of marriage If a person pretends to be married to another, the latter may sue him, or her for jactitation of marriage Such suits are rare

Jade Minoral, tromolito It consists essentially of silicate of magnesia and lime Two varieties occur, white jade found in China, and green inde or greenstone, in New Zealand A similar soda-containing mineral jadeite, is often confused with true jade Both minorals are used as ornamental stones

Jael Wite of Heber the Kenite (Judges seneral of the King of Huzer attacked the Israelites but were routed by Barak Sisera took refuge in Jaels tent, and when sleeping was treacherously slain by her—an act lauded in the Song of Deborah

Jaffa known as Joppa, it stands on the Mediterranean Sea 50 m from Jerusalem It has a trade in vool olive oil, and the oranges to which it gives its name In 1917 it was captured from the Turks by Australian and New Zealand troops Pop (1931) 51,366

Jagersfontein Town of South Africa, in the Orango Free State, 48 m from Springfontein It is the site of an important diamond unine in which the most perfect diamond ever discovered was found in 1895 Pop 4 000

Jaguar Animal of the cat tribe, found in both North and South America it corresponds to the leopard of the old world,

but its head is somewhat larger It averages out its nead is somewhat larger it averages 4 ft in length The colouring is a rich tan with small black spots and black-spotted rosettes, black varieties occur. It prevs upon monkeys, peccaries and turtles, as well as horses and cattle, and is an agile climber, writing on true branches in the deviting. resting on tree branches in the daytime

Jain Member of a Hindu religious sect This cult developed from Brahmanism in the 6th century, Bc, but gave up some of the main teachings of that faith, including the caste system and the Vedas Its own religious books date from about 500 Bc The Jains believe in the future life for almost all animate nature and refuse to kill anything They are found in the N W parts of India and number about 1,000,000, chiefly prosperous traders. The Jains have built some remarkable temples, one of the finest being at Calcutta

Jaipur State and city of Rajputana, India It is ruled by a maharajah and came under British protection in 1818 It covers 15,579 sq m Pop (1931) 2,631,775 The city is an important railway centro Near it is Amber, the former capital of the

state

Jaisalmir State of India It lies to the of the Rajput states Its capital is a town of the same name The ruler is a maharajah and the people chiefly Hindus The area is 18,060 sq m Pop 76,255

Jalalabad Afghan town It is situated on the Kabul river near the Khyber Pass, between Kabul and Peshawar It was the scene of a heroic defence by a British force under Sir Robert Sale during the Aighan War of 1841-2

Jalap Swift purgative drug First imported from Jalapa in Mexico, it is obtained from resins in the tuberous roots of several convolvulaceous plants of the genus It is rich in glucosides and is used in cases of dropsy

Jam Indian title The word, which is of Tartar origin, like khan and cham, means chief It was borne by the rulers of Las Bela, a state of Baluchistan, and of Nawanagar, the latter of whom was the famous cricketer, Raniitsinhii

Jamaica Largest island of the British West Indies In the Caribbean Soa, 90 m S of Cuba, it belongs to the Greater Antilles group, and was discovered by Colum bus in 1404 In 1655 the English took it from Spain A mountainous isle, with peaks reaching 7,360 ft. in height, it is very fertile, agriculture flourishes, and fruit, tobacco, sugar, coffee and cocoa are produced The vegetation is rich and the climate agreeable, but the island is subject to earthquakes and hurricanes With its dependent islands, which include the Turks and Calcos Islands and Cayman Islands, it is administered by a governor and a legislative conneil

Kingston is the capital and the chief sea port. Spanish Town is the old capital British and American currencies are used The area is 4450 sq m., and the island is 144 m long Pop (1931) 1,050,667

Jamboree Word of American-Indian origin meaning a festive by the Boy Scouts for an international rally, held periodically The first was held at Olympia, ondon, in 1920 Jamborec is also the name of a

James River of Virginia, USA It is formed by the junction of the Cow pasture and Jackson rivers, and, after a course of some 450 m, empties into Chesapeake Bay through a large estuary Richmond is at its head of navigation, which extends for 150 m Another James River, a tributary of the Missouri, flows through Dakota.

James Saint and apostle Son of Zebedee were Galilean fishermen whom Jesus called to be his disciples. He was one of the three especially honoured by Christ, and was an influential figure in the apostolic church. He was beheaded by Herod Agrippa He is commemorated on July 25, and is the patron saint of Spain, where his shrine at Compostella was one of the most famous in Europe

James Brother of Jesus Christ (Matt xii, Mk vi) Conflicting tradition made him a son of Joseph by a former wife or by Mary after Christ's nativity After the Resurrection he became a pillar L. the church at Jerusalem and its first bishop

James Epistle of Book of the New Testa-it to our Lord's brother, Jerusalem's first bishop, whose regard for the Mosaic law was overlaid by the law of love He addresses the infant church wherever dispersed, not Jewish Christians only, inculcating duties of practical morality, such as abstaining from sycophancy and unruliness of speech, evidencing faith by actual works, combining in prayer, especially in seasons of suffering and sickness, and recognising the importance of the individual soul

James I. King of Great Britain. Born the son of Mary, Queen of Scots, and Lord Darnley, he was proclaimed King as James VI in 1567 As a child he was delicate and throughin 1567 As a child he was delicate and throughout life remained ungainly, but he had considerable abilities and was very carefully educated His minority, marked by struggles for his person between the nobles, ended in 1583, and for 20 years he ruled Scotland His belief in episcopacy was disliked by many of his subjects, but he maintained this policy until bishops were established. He showed approprint dealing with risings of the publics. energy in dealing with risings of the nobles, and on the whole his reign was successful, if unpopular His indifference to his mother's imprisonment, and especially to her death, is generally regarded as a blot on his memory

In March, 1603, James became also King of England, and the rest of his life was passed in that country Failing to understand the English character, he can hardly be called a popular or successful ruler His partiality for certain worthless favourites disgusted many, and his religious ideas were heartly disliked by both Puritans and Roman Catholics His foreign policy was neither consistent nor wise, and his quarrels with parliament had a bearing

on the troubles of the next reign He died at Theobalds, March 27, 1625

James married, in 1589, Anne, daughter of the King of Denmark His eldest son, Henry, died in 1612, and the second, Charles, succeeded him From his daughter, Elizabeth, the present royal family is directly descended

James was something of a thinker, and in his Basilicon Doron and The True Law of Free Monarchies he set out his ideas on government He also wrote Counterblaste to Tobacco, and an

attack on witchcraft

James II. King of Great Britain. The
second son of Charles I, he

was born in London, Oct. 14, 1633, and was educated by tutors in the royal palaces. His life fails into three periods. From 1633 to 1633 he was Duke of York from 1685 to 1688 he was king, and from 1688 to 1701 an exiled and believe to the results. was king, and from 1000 to 101 an exhibit and fallen monarch in 1649 he went to the Nether lands and saw service in the French and Spanish armies in 1660 he returned to England and as Lord High Admiral commanded the fleet in battles with the Dutch Later he was in Scotland engaged in suppressing the Coven anters, and throughout the reign of his brother Le was prominent in public life His conversion to Roman Catholicism led to the formation of a strong party determined to exclude him from

the throne, but in 1685 he became king The rebellion led by Monmouth, having been crushed, James was able to carry out his ideas for making England a Roman Catholic country Paying little heed to constitutional forms, he issued proclamations that soon raised up a host of enemies Only three years after his success son, an invitation was sent to William of Orange to come and take the crown So thoroughly had he alienated his people that thoroughly had he allonated his people that James found himself unable to defend his throne and fied to France In 1690 he was in Ireland, where, with French help, he made an effort to oust his rival, but the campaign falled He then returned to France and passed the rest of his days at St Germain He dled Sept 6 1701

James married Anne Hyde, daughter of the Tarl of Clarendon who bore him two daughters, Harv and Anne both queens His second wife was Mary, daughter of the Duke of Modena, by whom he had a son James Edward, known

as the Old Pretender

as the Old Pretender

James James I, a son of Robert III,
vas born in July, 1394 From 1406, the year
in which he became ling, until 1424, he was a
prisoner in Fingland, having been captured by
some Finglish sailors when on his way to
France He returned to Scotland in 1424 and
married Jane Beaufort, a daughter of the
Duke of Somerset After much trouble with
his nobles he was murdered at Perth, Feb 20,
1437 The king wrote beems, two of which The king wrote poems, two of which etill survive

James II the only son of James I was born Oct. b, 1430 and became king on his father b During his reign the Douglas family

death During his reign the Douglas lamily was very powerful and troublesome. He made war on k nel ind and was killed whilst besleging Roxburgh Castle. Aug. 3, 1460

James III. the cliest son of James II, was born July 10 1451 and reigned at first with a regency, until 1458. In that year, urged on by the nobles his young son rebelled against him, and after a fight near Streling the king was

to rule for himself but he felt no mark thought of Foliada, and had two sons, Charles Edward his country. In 1542 the Frallsh defeated his not to lower Monary and on Dec 14 of that was he died at Falkland James married Many daughter of the Duke of Guise and their burth Feb 9, 1853, he became a medical man only child was Many Queen of Scots. Her is 1878 he went out to Kimberley where he can be sons was James VI., afterwards James 1. of the latter was the scots by the scots of the latter was the scots o Great Britain.

JAMESUN

James Baron English lawyor Born at
James was educated at Cheltonham and
became a barrister In 1868 he entered Parlia
ment as M P for Taunton, and in 1873 he
became Solicitor General and then AttorneyGeneral under Gladstone He returned to
office in 1880 and was Attorney General until
1885, when he became a Liberal Unionist and
M P for Bury In 1895 he was made a peer, as
Lord James of Heroford, and he was Chancellor
of the Duchy, 1895 1902 He died unmarried,
Aug 18, 1911

James Henry Anglo American payallet

James Henry Anglo American novelist he was educated for the law at Harvard However, he began to write and in 1875 his However, no began to write and in 1878 his first successful novel, Roderick Hudson, appeared This was followed by The American, The Bostonians The Tragic Muse, The Golden Bowl, What Maisic Knew, The Ivory Tower, and many others He also wrote criticisms of I nglish and French literature of unusual value In 1915 James became a naturalised English man, and he received the Order of Merit in 1916 He lived much at Rye, but died at Chelsen, Feb 28, 1916

James William American philosopher born in New York Jan 11, 1842, and educated at Harvard In 1881 he was made professor at that university, and he passed his life in the study of philosophy and the allied problems of psychology He lectured in England and Scotland He died Aug 26, 1910

James is regarded as one of the foremost of modern philosophers He was the founder

modern philosophers He was the founder of the philosophy of pragmatism, and many of the problems of psychology owe a good deal to his thought which laid great stress on the results of experience His books include The Principles of Psychology Human Immortality, Pragmatism, Varieties of Religious Experience, The Will to Believe, and The Meaning of Truth

James Bay Part of Hudson Bay, canada A south-casterly extension of the greater bay, it lies between Ontario and Quebec, and contains many islands ontaro and queste, and contains many spinnes it is 350 m long and 120 m wide at its widest point, and receives the waters of several rivers, being, nevertheless, shallow and brackish

James Edward British prince known as the Old Protender He was born in London, June 10, 1688, being the son of James II and his birth had important consequences for Britain The news that James one nobles his young son rebelled against him, and also decided his enomies to act against him, and after a fight near Stirling the king was killed June 11 14-8 He married a daughter of the king of Denmark

James IV was born March 17, 1473 and became king on his father a death for which he was in a sene responsible. He married to win the throne, but soon to be that James American and the result was the loss of the crown by the Stewarts. The young prince was sent to critically a soon and the result was the loss of the crown by the Stewarts. The young prince was sent to critically a soon and a son decided his enemies to act against him, and the result was the loss of the crown by the Stewarts. The young prince was sent to critically a soon and a son decided his enemies to act against him, and the result was the loss of the crown by the Stewarts. The young prince was sent to critically a soon and a son decided his enemies to act against him, and the result was the loss of the crown by the Stewarts. The young prince was sent to critically a soon and a son decided his enemies to act against him, and the result was the loss of the crown by the Stewarts. The young prince was sent to crown by the stewarts are the loss of the crown by the stewarts are the loss of the crown by the stewarts are the loss of the crown by the stewarts are the loss of the crown by the stewarts are the loss of the crown by the stewarts are the loss of the crown by the stewarts are the loss of the crown by the stewarts are the loss of the crown by the stewarts are the loss of the crown by the stewarts are the stewarts are the loss of the crown by the stewarts are the loss of the crown by the stewarts are the st became king on his father a death for which to win the throne, but soon returned to Franco he was in a sen e re-ponsible. He married In 1715, when peace was made between Britain Margaret daughter of Henry VII and after and France, he was obliged to leave the latter country. He went to Bar le Duc in Lormine met his death at I lodden Sept. 9, 1513

James V, born April 10, 1512 became king like was buried at S Peters. He married climation, daughter of John Sobleski King to rule for himself but he left no mark upon the courtry. In 1512 the hegleh defeated his and Henry

Cecil Ithodes who soon began to employ him

on political work In 1891 he was made administrator of Rhodesia, and in 1805 he led the raid on Johannesburg For this he was tried and put in prison in England, but was soon released In 1800 he became a member of the legislature of the Cape and from 1904 08 he was Prime Minister In 1911 he was made a baronet, and in 1913 chairman of the British S Africa Co He died in London, Nov 26, which he restated the teaching of S Augustines in 2017

Jameson's Raid Raid on Johannes-The Britishers in the Transvaal, badly treated by the Boers, planned a rising and obtained promises of help from Coell Rhodes and his assistant, Dr Jameson The rising was post-poned, but Jameson with about 500 men entered the Transvaal on Dec 28, 1895 They were quickly forced to surrender and handed over to the British authorities The leaders were tried and sentenced to imprisonment, and Parliaand sentenced to imprisonment, and Parliament appointed a commission to inquire into the matter Its report consured Rhodes, who lost his status as a privy councillor The raid left a bad impression and so contributed to the war of 1899 1902

Jamestown English settlement in the United States, the first of the kind It is on the James River in Virginia, about 30 m from its mouth, and dates from 1607 It was the first capital of Virginia and remained so until 1696, when, having been damaged by fire, it fell into decay The peninsula on which it stood has been converted by the action of the river into an island, and the ruins of the buildings thereon are carefully preserved by the society that owns them. In 1907 the tercentenary of the foundation was celebrated

Another Jamestown is the capital of St

Another Jamestown is the capital of St Holena Pop 2500

Jammu City of Kashmir and the winter a tributary of the River Chenah and has railway connection with India At one time Jammu was the capital of an important state named after it, this is now part of Kashmir In 1931 there was unrest in the city Pop 36,500

Jamnagar City and scaport of India It is the capital of the little state of Nawanagar and is 310 m north-west of Bombay Pop 42,000

Janissaries Corps of Turkish soldiers Founded in the 14th century, the Janissaries were, until about 1600, mainly Christian boys taken as tribute, and brought up, under strict discipline, in the Mohammedan faith. They made very formidable soldiers and were long the backbone of the Turkish army. After a mutiny in 1825, the the Turkish army After a mutiny in 1825, the corps was abolished

Jan Mayen Island Island in the Arctic Ocean It lies between Greenland and Norway and covers 160 sq m It is visited by fishermen after seals and whales Several explorers are said to have discovered the island, one being Jan Mayen, a Dutchman In 1920 Norway acquired the island, and took possession of it in 1925 An observatory was creeted in 1921 in 1925 An observatory was erected in 1921

Jannina Town of Greece On the Lake On the Lake of Jannina, it is near the frontier of Albania and is the chief town of a district named after it. It was from 1788 to 1816 the headquarters of the rebel chief, All Pasha, who was called the Lion of Jannina The Turks fortified it and in 1913, during the first Balkan War, it was besieged and taken by the Greeks

of Ypres He died May 6, 1638

Jansen wrote a book called Augustinus in which he restated the teaching of S Augustine on predestination, the fall of man and other matters. It was published in 1640, after his death, and was taken up by a group of religious thinkers, including Pascal, who lived at Port Royal. They called themselves Jansenists. They were then members of the Roman Church, but they incurred the hestility of the Jesuits, and after a time formed a church of their own, adhering to much of the Catholic faith, but rejecting the doctrines of the immaculate conception and papal infallibility The church still with the Netherlands. exists in the Netherlands

Janssen Cornelius German painter He was born in London, probably in 1593, of German parents, and studied art in the Netherlands In 1616 he returned to London and, calling himself Johnson, worked there for some years He painted Charles I and other notables When the Civil War began he went back to Holland, and died, probably at Utrecht, in 1684

Januarius Saint and martyr A bishop of Beneventum in the days of Diocletian, he was tortured and killed during that emperor's persecution of the Christians His body is preserved in his native city of Naples, of which he is the patron saint His day is Sept 19

Janus In Roman mythology an aboriginal spirit of the doorway This was developed by the Latin people into a double-headed deity His arch facing east and west in the Forum, commonly called the Temple of Janus, was only closed in time of peace He gives his name to the first month of the year

Japan Empire of Asia It lies off the from which it is separated by the Sea of Japan It is composed of five large islands, Honshiu, or Hondo, the mainland, Kiushiu, Shikoku, Hokkaido, or Yezo, and Formosa, or Taiwan, over a thousand smaller ones the Taiwan, over a thousand smaller ones, the peninsula of Korea or Chosen, and the southern half of Sakhalin The total area is 260,644 sq

half of Sakhalin The total area is 200,044 sq m and the population in 1930 was 90,396,043 PHYSICAL FEATURES The islands are volcanic and mountainous, Fujiyama (12,395 ft) on Honshiu, being the most famous mountain Two Formosan peaks are more lofty The numerous rivers are all swift, of no great size and of little use for navigation. The climate is diverse, for the empire extends through many degrees of latitude, but is in general wet, with short, hot summers, and long, cold winters. Typhoons are of frequent

coid winters Typhoons are of frequent occurrence and cause great damage, as do earthquakes and tidal waves

The vegetation is rich and varied, and agriculture is the chief industry of the fertile country, wheat, barley, rye, tobacco and tea being the chief crops Minerals and metals abound Manufactures are of increasing importance in 1842 Japan experted goods to the

GOVERNMENT Japon is ruled by an em-

was born in London, Oct. 14, 1633, and was educated by tutors in the royal palaces His life falls into three periods From 1633 to 1683 he was Duke of York, from 1685 to 1688 he was king, and from 1688 to 1701 an exiled and was king, and from 1000 to 1701 an exhibit and fallen monarch. In 1649 he went to the Nother lands and saw service in the krench and Spanish armies. In 1660 he returned to England and as Lord High Admiral commanded the fleet in battles with the Dutch Later he was in Scotland engaged in suppressing the Coven anters, and throughout the reign of his brother Le was prominent in public life. His conversion to Roman Catholicism led to the formation of a strong party determined to exclude him from but in 1685 he became king

the throne, but in 1685 he became king The rebellion, led by Monmouth, having been for making England a Roman Catholic country Paying little heed to constitutional forms he issued proclamations that soon raised up a host of enemies Only three years after his succession, an invitation was sent to William of Orange to come and take the crown So thoroughly had he alienated his people that James found himself unable to defend his James round nimsoit unable to defend his throne and fled to I rance In 1690 he was in Irland where, with French help he made an effort to oust his rival, but the campaign falled He then returned to France and passed the beautiful of the returned to France and passed to the returned to France and passed to the returned to France and passed to the return of the return to the retu the rest of his days at St. Germain He died Sept 6 1701

James married Anne Hyde, daughter of the Farl of Clarendon who bore him two daughters Mary and Anne both queens His second wife was Mary daughter of the Duke of Modena, by whom he had a son, James Edward, known

as the Old Pretender

James hame of six kings of Scotland James I, a son of Robert III, was born in July, 1394 From 1400, the year in which he became king, until 1424, he was a prisoner in Fngland, having been captured by some English sailors when on his way to France He returned to Scotland in 1421 and married Jane Beaufort, a daughter of the Duke of Somerset After much trouble with his nobits, he was murdered at Perth. Feb 20. his nobles, he was murdered at Perth, Feb 20, The king wrote poems, two of which 1437 etill survive

James II the only son of James I was born Oct. b, 1430 and became king on his father a death During his reign the Douglas family

death During his reign the Douglas lithing was very powerful and troublesome. He made war on England and was killed whilst besieging Roxburgh Castle. Aug. 3, 1460

James III, the cidest son of James II, was born July 10, 1451, and reigned at first with a reservey until 1488. In that year, urged on by born July 10 1301 and tocar, urged on by the nobles his young son rebelled against him, and after a fight near Stirling, the king was hilled June 11 1485 He married a daughter of the King of Denmark

James IV was born March 17, 1473 and became king on his father 8 death for which the married in a super responsible He married

became king on its latter a death of the was in a sense responsible. He married Margaret daughter of Henry VII and after a rein comparatively peaceful of 25 years mutils double at Hodden Sept 9 1513

to rule for himself, the English defeated his and Henry in 1942 the Born in Edin-Mary daughter of the Duke of Guise and their burgh Feb 9, 1853, he became a medical man only child was Mary Queen of Scots. Her, in 1878 he went out to Kimberley where he non year James VI, afterwards James L. of practical and there he made friends with Great Britain. In 1.12 the English defeated his and Henry

James Baron English lawyer Born at Heroford, Oct 30, 1828, Henry James was educated at Cheltenham and became a barrister In 1868 he entered Parlia ment as MP for Taunton, and in 1873 he became Solicitor General and then Attorney-General under Gladstone He returned to office in 1880 and was Attorney General until 1885, when he became a Liberal Unionist and MP for Bury In 1895 he was made a peer, as Lord James of Heroford, and he was Chancellor of the Duchy. 1895 1802 He died unmarried, English lawyer yer Born at 1828. Henry Baron of the Duchy, 1895 1902 He died unmarried. Aug 18, 1911

James Henry Anglo American novelist he was educated for the law at Harvard However, he began to write, and in 1875 his first successful novel, Roderick Hudson, appeared This was followed by The American, The Bostonians, The Tragic Muse, The Golden Bowl, U hat Maisie Knew, The Ivory Tower, and many others Ho also wrote criticisms of haglish and French literature of unusual value In 1915 James became a naturalised English man, and he received the Order of Merit in 1916 He lived much at Rye, but died at Chelsea, Feb 28, 1916

James William American philosopher born in New York, Jan 11, 1842, and educated at Harvard In 1881 he was made professor at that university, and he passed his life in the study of philosophy and the allied problems of

study of philosophy and the allied problems of psychology He lectured in England and Scotland He died Aug 26, 1910 James is regarded as one of the foremest of modern philosophers He was the founder of the philosophy of pragmatism, and many of of the philosophy of pragmatism, and many of the problems of psychology owe a good deal to his thought which laid great stress on the results of experience His books include The Principles of Psychology Human Immortality, Pragmatism, Varieties of Religious Lxperience, The Will to Believe, and The Meaning of Truth

James Bay Part of Hudson Bay, catension of the greater bay, it lies between ontario and Quebec, and contains many islands It is 350 m long and 120 m wide at its widest point, and receives the waters of several rivers, being, nevertheless, shallow and brackish

James Edward British prince, known as the Old Pretender He was born in London, June 10, 1688, being the son of James II, and his birth had important consequences for Britain The news that James had a son decided his enemies to act against him. and the result was the loss of the crown by the Stwarts The young prince was sent to I rance and was there when, in 1701, he became nominally King of Great Britain as James III in 1708 and 1715 he went to Scotland to try to win the throne, but soon returned to France In 1715, when peace was made between Britain and I rance he was obliged to leave the latter country. He went to Bar le Due in Lorraine and later to Rome where he died, Jan 2, 1768 James V, born April 10, 1512 became king He was buried at S Peters He married when under two years old In 1530 he began Clementina daughter of John Sobleski King to rule for himself but he left no mark upon of Poland, and had two sons, Charles Edward

The Britishers in the Transvaal, badly treated by the Boers planned a rising and obtained promises of help from Cecil Rhodes and his assistant, Dr Jameson. The rising was post-the Transvaal on Dec 28, 1895. They were onickly forced to surrender and handed over to quickly forced to surrender and handed over to quickly lorced to surrender and nanded over to the British authorities. The leaders were tried the British authorities. The leaders we and sentenced to imprisonment, and and sensenced to unpresonment, and Farna-ment appointed a commission to inquire into ment appointed a commission to inquire into the matter. Its report censured Rhodes, who lost his status as a privy councillor. The raid left a bad impression and so contributed to the

lett a bad impression and so contributed to the war of 1899-1992

Jamestown English settlement in the of the kind. It is only a states the first same flow 1607. It was the first same from 1607 in the same first same from 1607 in the same first same from 1607. It was the first same from 1607 in the same first same from 1607 in the same first same from 1607. It was the first same from 1607 in the same first same from 1607 in the same first same from 1607. It was the first same from 1607 in the same first same from 1607 in the same from 1607 in the same from 1607. It was the first same from 1607 in the same from 1607 in th

Another Jamestown is the capital of St Helena Pop 2500

Jammu City of Kashmir and the winter capital of the state It stands on a tributary of the River Chenah and has railway with India At. one time Jammu was the capital of an important state named there was unrest in the city Pop 36.500

Jamnagar City and seaport of India. state of Nawanagar and is 310 m. north-rest of

Janissaries Corps of Turkish soldiers, the Janissaries were, until about 1600. Taim penn brought up, under staken as tribute, and polar soldiers able soldiers affith. They made very formidate torps was abolished. They made very formidate or mount of the Turkish army. After a mutiny in 1825, the lofty and many and many and muting in 1825, the lofty of the second soldiers and the soldiers and were long the backbone of mount of the second soldiers and the soldiers and the soldiers and soldiers and

Corps was abolished.

Jan Mayen Island Island in the lit lies between Greenland and Arctic Ocean. Set of m It is visited by fishermen fadd to have discovered the island one being in 1925. An observatory was erected in 1921.

Jan Mayen, a Dutchman In 1920 Norway and Jan Mayen, and took possession of it light of the company of the island of the island

JAMESON'S RAID

on political vork. In 1891 he was made administrator of Rhodesin, and in 1895 he led the raid on Johannesburg. For this he led Allies. Pop 25 000. War it was taken by the scon released. In 1900 he became a member of twas a Dutchman of Cornelius Jansen. He legislature of the Cape and from 1901-08; was a Dutchman of Cornelius Jansen. He baronet, and in 1913 chairman of the British of Ypres He died May 6, in 1619, became Prosent Louveling and learn Bishop on predestination, the fall of man and extension. The Britishers in the Transvasi, badly treated the restated the teaching of S Augustines in Roeff planned a rising and obtained thinkers in restated up by a group of religious thinkers in restated up by a group of religious thinkers in restated up by a group of religious thinkers in restated the hostility of the Jesnite, they incurred the hostility of the Jesnite, where then members of the Roman Church, where the members of the Roman Church, where the static of the positive of the positive, and the proposition of the positive of the positive, and the proposition of the positive of the pos and after a time formed a church of their own. and after a time formed a church of their own, adhering to much of the Catholic faith, but rejecting the doctrines of the immaculate conception and papal infallibility. The church still exists in the Netherlands

Janssen Cornelus German painter He in 1593 of German parents, and studied art the Netherlands In 1616 he returned to the for some years. He painted Charles I London and caumy nimsen Johnson vorked and other notables. When the Civil War began to Holland and died probable.

Naples of which he is the patron saint. His day is Sept. 19
Janus In Roman mythology an aboriginal developed by the Latin people into a double. His arch facing east and west in the Forum, commonly called the Temple of Sives his name to the first month of the year. Empire of Asia It lies off the

Japan Empire of Asia It lies off the from which it is separated by the Sea of Honshin or Hondo, the mainland, Kiushin, Hokkaido, or Yezo, and Formesa, or Honshiu or Hondo, the mainland, Kiushiu, Shikoku, Ho, kaido, or Yezo, and Formosa, or Taiwan, over a thousand smaller ones, the pennsula of Korea or Chosen, and the southern pennsula of Sakhalin. The total area is 250 cm.

pennsula of Korea or Chosen, and the southern half of Sakhalin. The total area is 260,644 sq. m. and the population in 1930 was 90,396 043 PHYSICAL FEATURES Tree islands are followed by the sand mountainous, Fujiyama (12 395 ft.) on Honshin, being the most famous lofty. The numerous rive's are all swift, of no creat size and of little use for navigation. The lofty The numerous rive's are all swift, of no great size and of little use for navigation. The climate is diverse, for the empire extends through many destress of natitude, but is in securial wet with short, hot summers, and long, earthquakes and cause great damage, as do The vegetation is rich and varied, and acri-

converse too, by the control of the result of the control of Albania and is the chief town of the sum of the sum of the control of the rebeit of the front fortified it and in 1910 of Jannia. The chief town of the rebeit of the first Balkan was besieved and taken by the Greeks occurrence and cause ereat damage, as do occurrence and cause damage, as do occurrence and cause ereat damage, as docurrence and cause ereat damage, as do occurrence and cause ereat damage, as do occurrence and cause ereat damage, as do occurrence and cause ereat damage, as docurrence and cause ereat damage, as docu

peror, called sometimes the Mikado, and a cabinet of ministers There is a parliament, or diet, of two houses, a house of peers and a house of representatives the latter elected by all adult males There is no state church but Shintolsm and Buddhism are the chief faiths of the people Education is compulsory and there is a system of administering justice framed on European models Japan maintains a large and efficient army recruited by com pulsory service It has a good navy

The country possesses a good banking system set up in 1872. The standard of currency is the yen worth 28 01d. The metric system of weights and measures is compulsory.

HISTORY The Japanese empire dates from 660 nc and the present ruler claims to be the direct descendant of Jimmu Tonno, its founder From the 12th to the 19th century it was ruled by Shoguns but in 1871, after a civil war, the emperor regained his authority and a new era began Since that time Japan learning much from I urope, has made enormous

advances in every direction and ranks as one of the great countries of the world

In 1694 Japan was victorious in a struggle with China and in 1904 05 her armles defeated the Russians in war An alliance with Britain was concluded and as an ally Japan entered the war against Germany She secured a sphere of influence in Manchuria which in 1931 32 led to trouble with China and in Feb, 1932, the independent state of Manchukuo (Manchuria) was established under the protection of Japan In 1933 the war broke out afresh Japan would not accept the findings of the League of Nations on the Manchurian question and resigned from the League During 1935 she strengthened her position in China and in Nov her troops entered Pekin and Tientsin At the beginning of 1936 there was a prospect of improved rela tions between the two countries Japan s proposals included concerted (Sino Japanese) action against Soviet influence in N China In Jan 1936 after claiming equality with Britain and America Japan decided to leave the Naval conference The growth of population presents a probl m of Increasing difficulty

CULTURE Japan has a literature of its own but more notable is its art. A great amount of skill and taste is shown in the pottery produced by her people, whose gifts are also seen in their metal lacquer and bronze work. For painting they have distinct gifts and the native architecture in addition to being suited to the required and the second of t to being suited to the peculiar climatic and other needs of the country, possesses con

siderable grare and beauty

Japanning Process by which various articles of wood, metal and leather are coated with a kind of varnish and usually subjected to heat to harden the surface usually subjected to heat to harder the burner In Japan a special lacquer prepared from the judge of certain trees is used. In Great Britain the black Japan consists of asphaltum, cop-1 and lineced oil. The articles treated in this way are known as Japanned ware

Japonica Same used for certain plants growing in Japan In Britain gardeners use it for the Japanese quince cylinia japonica but it will equally well indicate other flowering shrubs e.g. stimmical orkerna. The quince which grows quite easily bears searly flowers. Commercially it denotes el immia pale entechn or gambler extract, formerly called term japonica

Cognac. It has a trade in wine and brandy Pop 4500

At the Battle of Jarnac, March 13, 1569, the Huguenot army was defeated, and its leader, the Prince of Condé killed

Reddish hardwood It comes from Jarrah Reddish naruwood to come the the mahogany gum tree, Eucalyp tus maryinata, of Australia Being very hard Being very hard, it serves for gate posts, railings, piles and rail-way sleepers The tree grows in the forests of Western Australia to a height of 150 ft

Jarrow Borough and river port of Durfree Man South West of South Shields, on the
LNE Rly In a mining district, the chief
industries are shipbuilding yards and fron
works S Paul's church, once the church of
the monastery associated with the Venerable
Bede contains parts of the original building,
and part it are some monastic purps. and near it are some monastic ruins (1931) 32 018

Jasmine Large genus of shrubs of the the warmer regions, especially Asia, but one is S American Two varieties grow in English is S American Two varieties grow in English gardens One bears white flowers in summer and the other, called the winter jasmine, is an overgreen bearing Jellow flowers. The well against walls, trellises and pergolas They do

Hero of Greek mythology The son Jason of Acson, King of Iolous, he was educated by the centaur Chiron To get rid of him and his claim to their father s inheritance his half brother Pelias sent him at the head of the Argonauts to find the Golden Fleece When he returned with it, he and his wife, Medea by a ruse, secured the death of Pelias and were expelled in consequence Jason later deserted Meden for Crousa, who was killed by

Jaspar was born July 28, 1870, and became a lawyer In 1910 he took a prominent part in the work of restoring the country s industries and the same year he was elected Industries and the same vert he was elected a deputy. He took office as Minister of the Interior and then as Foreign Minister a post he retained until 1925. Jasper was from the Jasper was from first a firm supporter of the League of Nations and was a member of the Court of International Justice at the Hague In May, 1926, he became Prime Minister and Minister of the Interior, and he remained at the head of affairs until 1931

Jasper impure form of silica It consists of an intimate mixture of quartz and red and yellow iron oxides or clay, thus rendering the mineral opaque As an orna mental stone, jasper was known to the Greeks One variety is deep red with concentric zones and another has parallel bands of reddish

brown and green
A ware invented by Joseph Wedgwood is A ware invented by Joseph Wedgwood is known as Jasper It is of uniform colour and is decorated with figures in the form of cameos

Jassy City of Rumania on a tributary of the Pruth in the department of trade in cattle corn oil and other products It has a trade in cattle corn oil and other products It was at one time the capital of Moldavia and in 1917 18 was temporarily the capital of Rumania Pop (1930) 102 595

Jats People of north vest India They are darl skinned regular featured and bearded and speak an Indo Aryan tongue Jarnac Town of France in the depart Rajputana United Provinces Baluchistan and Sind they number some 7 000,000 and are

mainly farmers and cattle breeders. They have a good reputation as soldiers

Jaundice Yellow discoloration of the bird, much porsecuted by gamekeepers and contains the Siberia and Conneds. It is due to escaped bile elements in the blood It is due to escaped bile elements in the blood and indicates a disturbance of the bile's normal flow into the intestine. It may arise from obstruction, usually denoted by darkened urine Non obstructive jaundice may arise from increased destruction of red blood corpuscles, as in pernicious anaemia, bacterial poisoning, as atrophy of the phosphorus poisoning, or yellow jaundice. Any of them are indicated by the presence of bile in the stools.

Auguste Marie Joseph Jos

Jaures Auguste Marie Joseph Jean Castres, Sept 3, 1850, he showed himself a billiant scholar there and in Paris He became a lecturer at the University of Toulouse In 1883 he was elected to the Chamber of Denntles 1883 he was elected to the Chamber of Deputies 1883 he was elected to the Chamber of Deputies but in 1887 he was defeated and returned to his former post at Toulouse From 1893 98 he was again a deputy and in 1902 he was once had definitely become a socialist, and his had definitely become a socialist, and his ment in 1914 he worked and hoped for peace, but just as war broke out he was murdered, ment in 1914 he worked and hoped for peace, but just as war broke out he was murdered, July 31, 1914 With Briand, Jaurès founded bis death his death

his death

Java Island of the Dutch East Indies,
lics between Borneo and Sumatra and covers
some 50,000 sq m Its length is 630 covers
is mountainous and volcanic, save in the northThe soil is fortile and there are extensive forests
The crops include coffee, rubber, rice, tea. The soil is fortile and there are extensive forests. The crops include coffee, rubber, rice tea, sugar and various spices. The minerals are oil, tin, coal and salt. The capital is Batavia is the next place in importance, and these two are also the chief ports. With the rest of the Dutch East Indies, partly elected and partly nominated The population of the most important is densely populated and council, the island is densely populated and commercially is the most important of the group

The island is densely populated and commercially is the most important of the group Remains of early man have been found in Atlanta and the state of the group coming from the island. At a later date it had its own civilisation, a Hindu one Early in the Island, but it was soon taken by the Dutch of throwing and thrusting.

Pop 37,433,000

Javelin Kind of throwing and thrusting in length, and was used in ancient times by both infantry and cavalry when three by of a javelin was either flat or thicker along the centre, and either long, diamond or leaf shaped of a Javelin was either flat or thicker along the centre, and either long, diamond or leaf shaped Javelin throwing is an event in certain athletic sports. The record throw was made in 1932 by a Finn, M Jarvinen.

Jaw Bony framework of the mouth in which the teeth are set. The two upper jaw bones lie beneath the checks, completing the bones unite immovably in the child's second warring a single mandible. The second The second The two lower jaw margins of each jaw contain the tooth sockets. over orbits and the nose The two lower jaw bones unite immovably in the child's second year into a single mandible The alveolar margins of each jaw contain the tooth alveolar Family of perching birds related to the crows The common jay of Great Britain and Europe (garrulus glandarius) is by the Hejaz forces in 1916 Pop 20,000

JEDDAH bird, much persecuted by gamekeepers Another genus contains the Siberia and Canada jays, and still others the American blue jays

Jay John American statesman Born in lawyer there In 1774, he was made chief where he helped to make the went to Parls where he helped to make the went to Parls he was a secretary of foreign affairs, and from then until 1801 governor of New York, as a suppressed in 1779 he went to Parls where he helped to make the went to Parls he was a secretary of foreign affairs, and from York In 1794 he went to London and arranged a convention (Jay's Treaty) with Great Britain

Jazz Name applied to certain American dance music and certain dance types of negro origin aptly describing the noisy, percussive features of the fashionable dance bands. It also dedecoration

decoration

t

Jeans Sir James Hopwood English scien1877, he went to Trinity College, Cambridge,
and distinguished himself as a mathematician
He became a fellow of Trinity and lecturer
in mathematics in the University From
1905-09 he was professor at Princeton University, and in 1909 he returned to Cambridge
as lecturer in applied mathematics From
1919 to 1929 he was secretary of the Royal
has written books for students of mathematics,
but, ho is best known for his popular exnas written books for students of mathematics, but he is best known for his popular expositions of recent scientific theories, as in Universe, and The Stars in their Courses.

d Jebb Sir Richard Claverhouse British classical scholar Born, Augustania 1841, he was educated at Charterhouse School Trinity College, Cambridge He was to the university in 1862 and, elected a fellow of to the university in 1875 Jebb was chosen 1891 he was elected at Glasgow, and in 1889 he was chosen 1891 he was elected at Glasgow, and in 1889 he was closed at Greek at Cambridge In 1891 he was clotted MP for the university the Order of Merit He died Dec 9, 1905 attached and in 1905 was given who published editions of Sophocles and Life of Bentley and a Primer of Greek Literature Left of Bentley and a Primer of Greek Literature

Jedburgh Burgh and market town on the L MS RIy The chief industries are the market and artificial silk on the Lars arry The chief industrial silk

making of tweed and artificial silk

Jedburgh was one of the most important
of the border towns The old name was
from the present one A certain kind of battle
and trying him afterwards

Pop 3057

time he was a reporter, but he gave up this calling in 1867 owing to illness and passed the rest of his days in writing and studying nature His books had considerable popularity They include The Slory of My Heart, Amarillis at the Fair and Wild Life in a Southern County Ho died Aug 14, 1887

Jefferson Thomas American states 13, 1743, he became a lawyer and later was one of the leaders of the movement for in dependence He belped to draw up the Declaration of Independence in 1776, and in 1779 81 was governor of Virginia Ho went to Paris to help to make the peace treaty with Great Britain in 1784, and in 1789 became secretary of state under Washington He was the leader of the party opnosed to the Federal the leader of the party opposed to the Federal ists and on this account lost his position in 1794 In 1797, however, he was elected vice president and in 1801 president He was again elected president in 1805, but he retired in 1809 Jefferson died July 4, 1826

Jeffreys Lord English judge Born near Wrecham in 1648 George Jeffreys became a barrister In 1677 he was made serieant of the city of London, and in made serieant of the city of London, and in 1678 its recorder He made himself notorious by his attitude towards those accused by Titus Oates and then against Oates himself but more so by the severity with which he punished those implicated or said to be im plicated, in the rebellion of the Duke of Mon mouth when he sentenced over 300 persons to death in the bloody assize He was then Lord Chief Justice and a baron but was soon made Lord Chancellor During the reign of James II he remained in an influential position but when the king left the country he tried to follow his example. He was caught when disguised as a sailor at Wapping and died in the Tower of London April 18, 1689

Jehorachin King of Judah A son of Jehorachin he succeeded to the throne when 18 years old. He only relimed three months when Nebuchadnezzar removed him to Babylon at the first captivity After 37 years Nebuchadnezzar died his successor released the captive making him a daily allowance thereafter He lived 600 BC

Jeho1ada High priest at Jerusalem under Abaziah Athaliah and Joach (2 Kings xi xil) Ahaziah's mother Joneh (2 Kings xi xii) Anazun's mother Athaliah usurped the throne of Israel and sou lit the life of her grandson Jonsh His sister Jehosheba Jehoiada's wife concealed her rephew Jossh in the temple during Athaliah's reim At the end of six years Jehoiada placed him on the throne and con nived at Athaliah's death about 836 B C

Jehojakim King of Judah He was a about 600 p.c. The Egyptian pharach Secho repointed him king changing his name from Fliaking and making him pay tribute. After Lypt soverthrow at Carchemish in 605 BC Jud ih becam subject to Babylon but three sations (haldean and Syrian attacks but died whom Nebuchadae zens was bestering Jerusalem

Jehoshaphat Kieg of Judah A son Abab King of Jarael proved disstrous He midel Mah og dost Benhadad of Spria

Jefferies Richard English writer Born at Ramoth Gliend, but barely escaped with in Wiltshire, Nov 6 1848 be his life A joint trading venture to Ophir showed early a great love of nature For a for gold resulted in the fleet's destruction at Ezion Geber in the Akaba Gulf His cam-paigns against Moab and Ammon were more successful and he effected some internal reforms He died in 851 B C

Jehovah Principal name for the God of Israel It occurs nearly 7000 times in the Old Testament The Hobrew word, containing four consonants YHWH hence called the tetragrammaton was deemed nence called the tetragrammaton was deemed too sacred for utterance. The vowels of another word Adonai, Lord, usually inserted in the text as a hint to use that word, have been read into the tetragrammaton, giving the pronunciation Yaliweh, which in English has become Johovah According to Ex III, the meaning is, I am that I am.

Jehu King of Israel He was a son of Jehoshaphat and became famous as a Joint Jehoshaphat and became famous as a soldier under Jehoram, or Joram He was anointed king by order of the prophet Elisha, and ordered to put to death the members of the royal family He drove his charlot furiously to Jezrcel, hence the name Jehu for a driver, and there put to death not only Joash, but also Ahaziah, King of Judah and many other persons He became Ling (842 n c) and reigned until 815 His story is told in 2 Kings, ix x and his name is on a tablet of Shalmaneser II, King of Assyria, now in the British Museum King of Assyria, now in the British Museum

Jellicoe Earl English admiral Jellicoe Dec 5, 1850 the son of a captain in the merchant service, John Rush worth Jellicoe entered the navy in 1872 He served in Egypt and China and commanded the naval brigade that took part in the roller of Pekin in 1900 when he was wounded broylously, in 1803 he had escaped when the Victoria was sunk. From 1905 07 he was director of naval ordnance and 1907 08 second in command of the Atlantic Fleet. He was then knighted and made an admiral From 1908 10 he was a lord of the admiralty and in charge of naval construction and in 1910-11 he commanded the Atlantic Fleet In 1912 he was made second sea lord a position he held when war broke out

Jellicoe was then put in charge of the Grand Fleet and he led this at the battle of Jutland In 1916 he left the Grand Fleet to become first held until 1917 In 1918 he was created a vis-count and in 1919 he was awarded 4.50 000 for his services. From 1920 to 1921 he was gover his services From 1920 to 1921 he was gover nor of New Zealand and in 1925 he was made an earl From 1928 to 1932 he was President of the British Legion He died in 1935 Jellicoo vrote two books The Grand Fleel and The frists of the Naval War See JUTIAND

Jelly Semi-solid semi transparent and olas tic substance of the anture of a colloid Most fellies contain gelatine many food preparations belong of this character Scawer ds such as agar agar and carrageon or Irish most also yield jellies and fruit jellies are made by bolling down fruit julest with augar the peecin present producing a latinus condition galatinous condition

Jelly Fish Popular name given to the forms of the medical stage of certain The common jelly fish aurelia aurila has a shallow umbrella like body whose soft translicent rubetonce contains 95 to 96 per cent of water from the margin of the disc pro

jects a fringe of short tentacles, interrupted by sense organs at intervals. At the centre of the under side of the disc is the projecting mouth bearing four large arms or tentacles. Locomotion in the medusae is by alternately contracting and expanding the disc. Many other forms of medusae exist, some of which are phosphorescent

Jemappes
Town of Belgium It lies in the province of Hainault,
4 m from Mons Coal is found in the vicinity,
and there are glass works Pop (1931) 14,573
A hattle was fought here in Nov 6, 1792,
between the French and the Austrians Fight-

ing also took place here during the Great War

Jena Town of Thuringia, Germany It stands on the River Saale, 56 m from Leipzig Optical and scientific Instruments are made Pop 52,650

The university of Jena Jounded in 1548 is

one of the most famous in Germany
The battle of Jena, one of Napoleon's greatest
victories, was fought near here, Oct 14, 1806

Jenghiz Khan Mongol emperor Born in 1162, the son of a petty chieftain, he was proclaimed khan, or emperor, of Mongolia in 1206 He led his armies into China, Turkestan, Persia, India and Russia and included the two first in his rast dominions He died Aug 24, 1227, and his empire soon fell to pieces.

Jenner Edward English physician and discoverer of vaccination Born at Berkeley, Gloucestershire, May 17, 1749, he was the sen of a clergyman He was apprenticed to a surgeon and later studied under John Hunter in London He then set up in practice at Berkeley, where for 20 years he investigated the connection between cow pox and small pox In 1796 he made his first practical experiment in inoculation It was successful. and the practice spread rapidly in successful, and the practice spread rapidly in spite of violent opposition In 1802 and 1806 Jenner was voted £10,000 and £20,000 by Parliament He died Jan 24, 1823

Jephthah Chieftain and judge of Israel (Judges xi, xii) Expelled by his Glicadite brethren, he led a band of robbers, but soon returned by invitation to Glicad to repel the Ammonites He won a complete victory over them Jephthah had made a vow that, if victorious, he would sacrifice the first thing from his bouse he met on his return His own daughter met him and willingly consented to the sacrifice He reigned for six years and gained victories over the Ephralmites

Jerboa Sub-family of leaping rodents in Russia and Asia The Egyptian night-feeding, burrowing jerboa has a tufted tail, and is about 8 ins long It has short five-toed fore limbs, and three toed hind limbs, six times as long, with which it makes kangaroo-like leaps

TEROME

Jericho Town of Palestine Situated in the valley of the Jordan, 17 m north-east of Jerusalem and 5 m north of the Dead Sea, it was the first Canaanite settlement reduced by the Israelites when they entered Palestine, the walls falling at the blast of the Israelite trumpets Rebuilt by Hiel 500 years later it sheltered Elisha's college of prophets, and witnessed Zedeklah's last struggle with Rabulon before the Cantinity. Antenny prophets, and witnessed Zedekiah's last struggle with Babylon before the Captivity Antony presented the region to Cleopatra Herod built here a palace and a new city, the scene of the New Testament stories of Bartimaeus and Zacchaeus, which Vespasian destroyed Around some mediaeval monastories arose a third city, founded by the Crusaders, which shill survives It was captured by the British troops on Feb 21, 1918

In 1931 the walls of the city that existed from 1600-1200 B c were uncarthed It is surmised that an earthquake destroyed them at the time of Joshua's attack

Jeritza Maria. Austrian soprano Sie début as Elsa in Lohengrin at Olmutz in 109 She was a prime favourite at the Hofe per, Vionna, from 1912 21, after which she repeated her successes in New York as a member of the Metropolitan Opera Company Her aniobio-graphy, Sunlight and Song, appeared in 1924

graphy, Sunlight and Song, appeared in 1924

Jeroboam Name of two kings of son of Nebat Solomon's suspicions of his loyalty led him to take refuge in Egypt. At Solomon's death Rehoboam's refusal to moderate his father's despotism caused the ten northern tribes to make Jeroboam, who had taken up their cause, their king In this way there arose two Jewish king toms in Palestine, Israel and Judah As certres of worship, in opposition to Jerusalem, Jeroboam set up golden calves at Dan and Bethe He reigned from 937 to 915 B c

Jeroboam II was king, 781 to 740 B c

Jordon II was king, 781 to 740 Bc He was a son of Joash and is chiefly known for his victories over the Syrians (2 Kings, xiv)

Jerome Heaves over the syriams (z kings, xiv)
Jerome Jerome Klapka English author
in London he was for a time a clerk and a
teacher He also did a little acting and in
1885 published On the Stage and Off In 1889
Jerome made his name with Three Men in a
Boat, a thoroughly humorous story This
was followed by the Idle Thoughts of an Idle
Fellow He wrote several novels including. in Russia and Asia The Egyptian night-feeding, burrowing jerboa has a tufted tail, and is about 8 ins long. It has short five-toed fore limbs, and three toed hind limbs, six times as long, with which it makes kangaroolike leaps.

Jeremiah Prophet of the Old Testacilled after him. A son of Hilkiah, he was a priest of Anathoth near Jerusalem. His prophecies, at first spoken, were afterwards dictated to his friend Baruch, but the roll was promptly burned by the king. Jeholakim A second dictation was supplemented by blographical passages from another hand, and was subsequently revised with an intro-

made his home in Bethlehem where he built a monastery, and where he completed his translation of the Bible (The Vulgate) He died Sept. 30 420 Jerome was the first to distinguish between the canonical and apoervised beautiful the Bible cattle Bible 1998. phal books of the Bible

Jerome of Prague Bohemian reform Born at Prague about 1365, he studied there, at Oxford and in Parls, returning to Prague in 1407 At Oxford he came under Wycliffes influence and later became associated with John Hus He was arrested for heresy and, like Hus was burned at Constance after a

trial, May 30, 1416 Jersey Earl of Finglish title bor to by the family of Villiers Sir Ldward Villiers was lord chamberlain and secretary of state under William III who made him Larl of Jersey in 1697 The 5th earl married the granddaughter of Robert Child the banker and since then the family name has been Child Villiers and each earl has been a partner of Child Villiers and each earl has been a partner of Child Villiers and each earl has been a partner of Child Villiers and each earl has been a partner of Child Villiers and each earl has been a partner of Child Villiers and each earl has been a partner of Child Villiers and each earl has been a partner of Child Villiers and each earl has been a partner of Child Villiers and each earl has been a partner of Child Villiers and each earl has been a partner of Child Villiers and each earl has been a partner of Child Villiers and each earl has been a partner of the child Villiers and each earl has been a partner of the child Villiers and each earl has been a partner of the child Villiers and each earl has been a partner of the child Villiers and each earl has been a partner of the child Villiers and each earl has been a partner of the child Villiers and each earl has been a partner of the child Villiers and each earl has been a partner of the child Villiers and each earl has been a partner of the child Villiers and each early has been a partner of the child Villiers and each early has been a partner of the child Villiers and each early has been a partner of the child Villiers and each early has been a partner of the child Villiers and the child Villiers a in Child's Bank. The 7th earl was governor of New South Wales, 1890 93 The earl's cldest son is called Viscount Villiers, or Viscount Grandlson, and his seats are Osterley House, Middlesex and Middleton Park, Oxfordshire

Jersey Largest of the Channel Islands I rance and covers 28,700 acres Its inhabitants are chiefly Norman French by race and speak French, which is the official language St Helier is the capital and the chief port. Gorey, Corbice St Ouen and St Brelade are smaller places Mount Orgael Castle is an object of historic interest Jersey is a popular holiday resort with a very equable climate and much picturesque scenery. The soil is fertile Potatees, grapes flowers and tomatoes are picturesque scenery The soil is fertile Potators, grapes flowers and tomatoes are grown for the English market, and its bread of cattle is famous The island is governed by a licutement governor and a bailiff The lelative body is called the States, some of its members are elected and some are per The some The royal court is the court manent officials Pop 49,700

A voollen garment worn by boys and girls and dee by seamen is called a jorney because such were first worn by the scamen in Jersey

Jersey City city of New Jersey It letween the Hudson River and Newark Bas letween the Hudson Miver and Assume the let is part of the port of New York with which it is connected by tunnels and ferries. There it is connected by tunnels and ferries. There is a large shipping trade and the other in dustries are mainly connected with the preparation of food products, tobacco, chemicals

Jerusalem Chief city of Palestine It is structed 33 m from Jaffa its port with which it is connected by railway and about 15 m from the Dead Sea Nearly 4000 ft above the level of the sea it was inhabited in the Stone Age and was the strong hold of Uru-alin mentioned in the Telecian manual effects about 1400 nc. It was captured to the strong that the strong the strong the strong that the strong the strong that the strong the strong the strong that the strong th by David about 1000 BC and became the rational centre of the Jews Temples ver tuilt by Solomon, Armbhabel and Herod At that time included in the Roman vorld

built and for the next 300 years it was a prosperous Christian city In 637 it was taken by the Arabs, but for a time the pllgrims were welcomed Later, however there was a change of policy and to recover the Holy Places the first crusade was organised In 1000 Jerusalem was taken and until 1187 was the capital of a Latin kingdom The Moslems then recovered it, and in 1517 it became a Turkish possession
It remained part of the Turkish realm until British troops (in the Great War) entered it

in Dec 1917

The modern city is surrounded by walls built in the 16th century and pierced by eight gates Two hills, Zion and Moriah, associated with events of great interest to the Christian world are on the south overlooking the valley of Himmon Quarters are devoted to the Jews, Armenians Christians and Mohammedans The main objects of Christian veneration are the Holy Places The mosque of Omar is the chief of several mosques The Walling Wall is sacred to the Jews and there was trouble about it between them and the Mohammedans in 1920 The Roman Catholics, Anglicans and Greek Church have bishops in the city The British have given it a new water supply and new official buildings The industries chiefly centre around the providing for the wants of tourists and pilgrims The Arabs call the city El Kuds or the sanctuary The population which was 62 700 in 1922 had increased in 1931 to 90,500

Jervaulx Hamlet of Yorkshire (NR)
On the Ure, 13 m from
Ripon it is noteworthy only for the ruins of a Cistercian monastery which was founded in 1156 and dissolved at the Reformation The remains include the ruins of a cruciform church, chapter house and cloisters

Jervis Bay Wales Australia 82 m south of Sydney and consists of a harbour and the adjacent land This covers 28 sq m and belongs to the government of the Common wealth which bought it in 1907 to serve as the port for Canberra (q v )

Jesmond District of Newcastle upon Tyne Formerly a place of pilgrimage called Jesus Mount, it has still the remains of a pilgrimage chapel Deno is a public park

Jesse Father of David King of Israel He was a native of Bethlehem and had eight sons Isalah s phrase root of Jesse' suggests Christ's descent from David and Jesse (Matt 1) This is represented in wood or stone or on a window of stained glass, or in painting or embroidery Josse trees, or Jesse windows, exist at Abergavenny, Wells, Christchurch Hants, Dorchester Oxon and (lsewhere

Jessel Sir George English lawyer A Jew he was born in London Feb 13 1821 and educated at a Jewish school and I ondon University He became a barrister in 1817 and in 1868 entered parliament as a Liberal He was solicitor—eneral 1871 72 and then became master of the rolls and later president of the court of appeal. He died Mar 21 1883. He was the first Jew to become

At that time included in the Roman world it witnessed the crucifixion of Christ and was destroyed by Titus in A D 70

In 135 the 1-mp for Hadrian rebuilt the city and about 200 years later Constantine city and about 200 years later Constantine the Gat built a church on the 5th of the Cambridge. He made his reputation as a Help sepulcher. This attracted thou ands of member of the Gloucetershire county team pillerims from Europe for whom hospices very

He was also a good bowler and a grand fields-man He played for Cambridge University, in 1899 as captain, for England against Australia, and for the Gentlemen, and was the author of some sensational feats of rapid scoring He succeeded W G Grace as captain of the Gloucestershire team

Jest Book Collection of witty savings or humorous stories During the crusading age raconteurs brought to Europe many tales, greatly enriching the material already available. The earliest extant collection is A Hundred Merry Tales, which was utilised by Shakespeare Changing taste is exemplified by Joe Miller's Jests, 1739, and Mark Lemon's Jest Book, 1865

Jester Saver of witty things and maker of mirth Jesters were kept in royal and noble households in mediaeval times and later Originally a minstrel and reciter of romances, or gestes, he became a merry andrew or buffon privileged, like the court fool, to play pranks and utter pungent truths He wore a motier dress, belts, ass-eared cowl and bauble The last official court fool was kept by Charles I The last nobleman's jester was the Earl of Suffolk's Dicky Pierce who died in 1728

Jesuits Popular name for the religious order known as the Society of Jesus It dates from 1543, although some years before that date Ignatius Loyola and four companions had banded themselves together and taken rows The order soon became very Influential

Whilst retaining its original purpose of converting the heathen, its members mixed very much in political affairs and European history in the 16th and 17th centuries is full of records of their activities in this direction In England they were prominent in the attacks on Elizabeth's throne and in Germany in the prosecution of war against the Protestants

Meanwhile other members carried on mission work almost all over the world came under the rule of the order, Paraguay one of the few instances in the world's history of a theocracy In North America the labours of the Jesuits are among the most heroic in the annals of missionary work. In China, too,

they were very successful In the 18th century the political work of the Jesuits made them suspect in several countries, and on soveral occasions they have come into conflict with the popes In 1759 countries, and on several occasions that come into conflict with the popes In 1759 they were expelled from Portugal France and Spain followed this example, and in 1773 the pope suppressed the order It was not, the pope suppressed the order It was not, however, killed, and in 1814 was revived It has not returned, except in isolated cases, to the political field, but has been, and is, very active in the work of converting the heathen and cducating the young

The head of the order is the General, whose powers are almost absolute. Under him are the

powers are almost absolute Under him are the Provincials, who are heads of the various provinces Members pass through a very rigorous training, and ten years must elapse before one can become a full, or professed member Next in order are the coadjutors, the novitiates and finally the novices Each member is bound to absolute obedience

The zeal and learning of the members is unquestioned, but their methods have been sharply criticised It has been held that they act on the principle that the end justifies the means, but this is denied by their apologists Pascal's Provincial Letters were written against the Jesuits. nowers are almost absolute

In England the Jesuits conduct several schools, the chief being Stonyhurst and Beaumont In Ireland they have many Their English headquarters are in Farm St. Belgrave Square, London, SW Their chief training college is in Rome where the General lives The order is about 20,000 strong

Jesus Christ Personal name of the Central figure of Christical Control of the Hebray

tianity Jesus is the Greek form of the Hebrew Joshua meaning "Jehovah saves" Christ is a Greek title, "anointed," representing the Hcbrew Messiah, the promised national deliverer Apart from S Paul's indirect allusions

nothing is known of Christ's early life beyond

what is contained in the four gospels

He was born in the stable of an inn at Bethlehem, whither His parents had gone for the census ordered by the Roman government of Palestine His parents were Jews, Mary and Joseph, the latter a carpenter of Navareth, but the accepted Christian belief, based on passages in the gospels of S Matthew and S Luke, is that Mary was a virgin, a fact that accounts for the sinlessness of Christ The date was fixed in the 6th century at the year 1, but modern calcula-tions have placed it in 4 B C December 25 is kept as the natal day

After a time the two, with the child who had been circumcised and presented in the Temple, settled down at Nazareth There were other children in the household, one view being that these were children of Joseph by another wife With them Jesus was brought up, but only one event of His boyhood is recorded When twelve years old He went to Jerusalem with His parents and was found by them arguing with the doctors in the Temple When old enough He began work as a carpenter and in this occupation He passed His time until He was 30 years old. During this period His reputed father died, and presumably He helped

to maintain His mother
When 30 years old Jesus entered upon His
life work He was baptised by a relative, John, in the Jordan, and passed 40 days in retirement in the wilderness, where He was tempted by the devil He then gathered around him twelve followers or disciples and spent nearly three years teaching and preaching as the little band wandered about from place to place Of His utterances many take the form of parables, but the longest recorded is the one known as the Sermon on the Mount. He performed was but the longest recorded is the one known as the Sermon on the Mount. He performed many miracles, mainly deeds of healing, during His ministry He continually attacked the official classes, known as the Scribes and Pharisees, but the common people heard him gladly His teaching is fragmentary, but it lays stress upon the love of God to man and contains sayings of infinite wisdom and universal application He claims for himself, without any hesitation the position of the Son of God and hesitation, the position of the Son of God and the interpreter to man of the divine will

After nearly three years of teaching the officials decided to stop His activities. He was at Jerusalem and had just taken His last at Jerusalem and had just taken His last supper with His disciples, when, through the agency of one of the twelve, Judas Iscariot, He was selzed and tried before Pontius Pilate He bore himself with dignity and after some hesitation Pilate sentenced him to death He was then crucified on a hill called Calvary between two thieves, dving on a day since commemorated as Good Friday His body was moved to a fomb by one Joseph of Arimathes. moved to a tomb by one Joseph of Arimathea

Such are the bare facts of Christ's earthly life, but the Christian Church was not built on these alone It holds that after two days in 711

the temb He rose from the dead and appeared i from time to time to various followers. After forty days He made in their presence His final ascension into Heaven Attempts have been made to explain these occurrences, as well as the miracles on natural grounds for it is recognised that the existence of the Christian Church forbids them to be dismissed as mere efforts of the imagination

Black lustrous form of lignite resombling let cannel coal but harder and blacker It is light in weight ensily out and takes a high poilsh It is used for making ornaments and mourning jewellery Whitby in Yorl high polish It is used for making ornaments and mourning jewellery. Whitby in Yorl shire is the chief I nglish centre of the industry There the jet is found in shales of the Upper Line Jet occurs also in Bohemia, Germany, and at Oviedo in Spain Imitation jet orna ments are made from ebonite and black glass

Jetsam In English law property that is jettisoned or thrown overboard during a shipwreck or to lighten a ship in a storm. The loss of goods thus jettisoned is divided between those interested in the vessel between those interested in the vessel. and her cargo This averaging as it is called is done by average adjusters

Jethou Island of the Channel Islands
It lies to the south west of Herm and is 4 m from Guernsey, from which are mile

in circumference

Jevons william Stanley Inglish logician conomist and statistician Born at Liverpool Sypt 1 1835, he went to University College London, in 1851 From 1854 to 1859 he was employed in the mint at Sydney In 1866 he became professor at Owens Collego, Manchester, and in 1876 professor of political conomy in London University He was drowned whilst bathing at Hastings Aug 13, 1852 In corp. Teach a reputation as the author l'882 Jevons won a reputation as the author of books on logic especially his Flementary Lessans in Logic He also wrote much on political economy including Theory of Political Iconomy and Money and the Mechanism of Frehange His book The Coal Question, attracted great attention when it appeared in 1575

Jewellery Term applied to articles metals, rems and other materials for use as personal ornaments. The fewellers craft is very ancient and vas brought to a high pitch of excellence in ancient I gipt and Greece At the present; is split up into a number of lustries. The centre of the day the trans is split diamond cutting industry is at Amsterdam, Parls Vienna and New York produce novel and my xportise jewellers. In Fugland Clerkenwell I onden is noted for its high class work while Dirnin ham makes not only goods of high grellty but al o cherp and imitation jewellers In London and Birmingham there are schools fir teaching those entering the crift, and a sociations of employees and employed

Jewry Land of the Jews or the district JEWTY in a high they live. In the Middle Ages many cities had a Jewish, quarter which a as called the Jewty. There are remains of these in I ondon in Old Jewty and Jewty. Str. and in Winchester Leiesster Oxford and other class. Another name for Jewry is

being supplemented and occasionally corrected by other information and by the results of archaeological research They appear to have from Mesopotamia to Palestine migrated about 2000 B C under the lead of the patriarch, Abraham Some 500 years later they moved with their flocks into Egypt where after a time their lot became one of great hardship From this under the guidance of Moses they escaped and passed 40 years wandering in the wilderness

Entering Canaan, the modern Palestine, the Jews conquered the tribes there and made their home again in the land they had pre viously left. They divided it among their twelve tribes named after the sons, or grand sons, of Jacob also called Israel one of their patriarchs The tribe of Lovi undertook the duties of the priesthood The Jows were ruled at first by judges, but later they took a king called Saul He was succeeded by David and then by Solomon, at which time the Jewish kingdom was clearly one of considerable wealth At Jerusalem their capital, Solomon built a magnificent temple which served as the centre of the national life Before his time the Jews had been almost continually at war with one or other of their neighbours, but his reign was one of comparative peace.

STRIFE AND CAPTIVITY Soon after the death of Solomon the Jewish kingdom was divided into two Judah in the south and Israel in the north, and the story of the next few centuries is one of alternate wars and alliances between them and their neighbours The two kingdoms came to an end in 586 n c and 721 BC respectively and for a time the Jews were captives in Babylon Again they icturned to their own land and were under the dominance of the Seleucids Later the priest kings called the Maccabees, won freedom for them and made themselves rulers. In 63 BC the Jews passed into the orbit of Rome and at the Jews passed into the orbit of Rome and at the time of Christ, the greatest Jew of all, their land was part of the Roman Empire In A p 70 the Lmperor Titus destroyed their temple and soon they were driven out and scattered although it proved impossible to stamp out their virile sense of nationality.

THE DISPERSION Since the dispersion or diaspora the Jews have been found in colored was constructed. In most of

almost very country in the world In most of them at one time or other they have been per-cented often with great cruelty From Fingland they were expelled in the 12th century, but allowed to return in the 17th In the 19th they were granted equality with other citizens, previously they had been excluded from offices of state and the privileges of citizenship in 1900 an organised anti-semile campaign on a large scale was started in Cermany under the leadership of Adolf Hitler the Chancellor

Some but by no means all of the hestility that has been shown to them is due to their long association with the trade of money leading. As moneyleaders and bankers they have been unusually successful and at times it has seemed as if the world's finances have been dominated by them. They have proved thems lives adopt too at other trades in which barraining plays a considerable part. The Jees have produced quite a number of artistic Jews and the race of Semilie origin now section of Dismell I institu Helper I he early history of the Zionism - In the Argument of The world The world Jews pinnoza has no licht claim to recognition among the race of Judah Asynoving scholars and artis a Zionism - In the Control of the Contro

the British government's promise to make Palestine into a "national home" for the Jews In 1920 Britain was appointed mandatory power for Palestine home" was actually power for Palestine in 1921 a "national home" was actually set up, and funds instituted for the purchase of land and for general colonisation purposes From that time the position of the Jews in Palestine has steadily improved

At the present time there are 15,000,000 Jews in the world, but there must be many times that number with Jewsh blood in their veins In Great Britain there are about 300,000, but this does not include the many who have, nominally at least, accepted the Christian faith They live mainly in towns as they have done all over Europe since the dispersion. Very few Jews are found in country districts, although colonies of them have been

settled on the land in America
RELIGION The religion of the Jews, one
of great and claborate ceremonal is laid down in the Old Testament and in the sacred book called the Talmud It is, as it has always been, strongly monotheistic and attaches great importance to the subject of food, some kinds being regarded as unclean They worship in synagogues where rabbis expound the law They have their own ceremonial as regards weddings and burials and English law makes weddings and buriais and Engush hav makes provision for this They have also their own calendar The new year begins in October and their year, 5690, was the Christian year 1929 30 They have their own names for the months, and several days, including the day of atonement and the passover, are set aside as fasts, or festivals They have their own system of weights and measures

The literary language of the Jews is known as Hebrew and in that they have an extensive literature The language they speak is called Yiddish, and in it many papers are published Jew's Harp Small metal musical instrument It consists of a steel tongue set in a frame the neck of which is held with the player's teeth The tongue is vibrated by the fingers and the pitch and volume of sound is controlled by the

breath

Jezebel Wife of Ahab. King of Israel of Tyre she introduced Phoenician worship into Israel, persecuted the prophets of Jehovah treacherously caused Naboth's arrest and stoning, and was destroyed by Jehu Her

stoning, and was destroyed by Jenu Her name is a synonym for an abandoned and unscrupulous y oman (1 Kings, xviii-xxi, 3 Kings ix, Rey ii)

Jezreel City in the plain of Esdraelon, Palestine Situated on a knoll 11 m from Nazareth, it was Ahab's capital Nowadays it is a stone built village called Zer'in.

Jhansi City of British India In the from Gwallor Protected by a massive wall 41 m round and a Maratha fort, it is a trade centre Pop 66,432

Jib Foremost sail in a sailing craft. Trian bowsprit to the foremast head Beyond it may be a flying jib, and in yachts a balloon jib Jibuti Scaport of French Somaliland Connected by rail with Addis Abbaba, it is the chief outlet for Abyssinia's was taken prisons. Was taken prisons. By them sae would to the English By them sae would to the English By them sae would not may 30, 1431, ha found guilty of sorcery and heresy, where was canonised. An immense literature has grown the maid," as Joan is often called, Shaw has written a play, Saint Joan

this being called Zionism and it received an impetus, when, as a result of the World War, Palestine was taken from the Turks
In 1917 the "Balfour Declaration" embodied (1931) 11, 105, or y such 628 are white

Jig Appliance used in ore dressing for the sifting and concentration of the materials It works on the principle that when particles of the same size and shape are agitated in water, the heavier ones rapidly sink to th bottom The simplest form of jig or jiggor consists of a number of sieves attached to a frame, which by means of a lever are shaken up and down in water Types of jigs include one with a fixed sieve and a plunger to force water up through it Also a device for holding in position accurately and tightly, work to be machined

Jig Lively dance for one or more persons. Iteland Bach, Handel and their contemporaries included just, usually spelled "grgues." in their suites. They are invariably in com-

pound time

Religious war of Mohammedans against unnelievers Two were prolihad Jinad against undelievers Tro were pro-claimed simultaneously in 1877, one in India and the other at Constantinople against the Russians

Jinn In Arabian mytaology, a class of spirits They are the offspring of fire, and appear in human or animal form Their influence, if evil may be averted by talismans See GENIF

Joab Hebrew warrior He was a son of David's sister Zerniah He was made commander of the arm and won a great reputation as a man of war He slew Abuer reputation as a man of war He slew Abnut Saul's former captain, Amasa and David's son Absalom, and protested against David's proposed census By solomon's command he was executed for conspiring with Adonijah (1 King- 11)

Joachim Joseph Hungarian violinist Born near Presburg, June 23, 1831, he studied at Bunapest, where he appeared in public at the age of eight, at Viennament I in the state of eight, at Viennament of the public beautiful to the state of the and Leipzig, where he met Mendelssohn. In 1844 he visited London where he later performed regularly. He held musical posts at Weimar and Hanover, and in 1869, a ye ir after his appointment as head of a new school of music at Berlin, started his famous string quartet. He died Aug 15, 1907 Joachim composed a good deal, nis most notable work being his Hungarian Concerto (for violin and orchestra)

Joan of Arc French heroine Born at 6, 1412, she was the daughter of a pessant Devout and perhaps hysterical she imagined she heard voices telling her to save France, then under the dominion of the English In Feb 1429, she procured an introduction to the uncrowned King Charles VII By him she was given a troop of soldiers to lead to the relief of Orleans then besieged by the English Her faith infused new courage into her countrymen and the slege was raised Other victories were won and in July, 1429, Charles was crowned at and in July, 1429, Charles was crowned at Rheims In 1430, Joan wounded in a fight, was taken prisoner by the Burgundians and sold to the English By them sae was tried at Rouen, and on May 30, 1431, having been found guilty of soreery and heresy, was burned

An immense literature has grown up around "the maid," as Joan is often called, and G B

IOHN 716

Joash Two kings of the Old Testament, also called Jehoash One was king of Israel 797 to 783 B c He was the son and successor of Jehoahaz and recovered the lands conquered by Syria by defeating Hazaels son Benhadad (2 Kings, vili viv) Challenged by Amaziah of Judah, he reduced the land to vassalage

The second was King of Judah from 836 to 797 B C A son of Ahazlah, he obtained the throne which had been usurped by Athaliah during a revolt encouraged by Jeholada during a revolt encouraged by Jeholada (2 Kings vi viv) He assented to Jeholada shelliton of the worship of Baal, but reintro anced it after the death of the high priest.

Job The book of Job is the supreme achieve ment of Hebrey poatry. The process process of the control of Hebrey poatry.

ment of Hebrew poetry. Its prose prologue describes an opulent Arabian emir in the patriarchal age suffering loss of his children and possessions and yet ascribing no wrong to God The unknown author brings together three neighbouring emirs to discuss these calamities with him, presenting in verse form three cycles of argument Lach comprises six speeches one by each friend and Jobs reply, although the concluding speech is apparently lacking A younger listoner, I liku interposes to reconsider whether human suffering is punitive Job is finally abashed and humbled by God's majestic response In the epiloguo Job is restored to still greater prosperity

In Greek legend, the mother of locasta Oedipus and the wife of Laius of Thebes On her husbands death she married her own son Oedlpus and bore him children but on discovering his identity

hanged hereelf

Jockey Rider in a horse race Most begin their career as apprentices in a racing stable In Great Britain before they can ride in a mee they must obtain a licence either from the Jockey Club or from the National Hunt Committee Licences to ride are like wise essential in most other countries

The body that controls racing on the flat in Great Britain is called the Jockey Club It has power to suspend joeleys for infringements of its rules. Its affairs are managed by three stewards and its headquarters are at New market. There are Joekey clubs for like ibs for like Ireland and purposes in Australia I rance

other countries

Jodhpur Native state of Rajputana it is a sandy country traversed by the Luni river and produces maize millet and cotton Its area is 10016 sq m, and its ruler is a muharajah Pop (1931) 2 125 982 The capital Jodhpur, is a trading centre Pop 73,440

Joel Second of the twelve minor prophets of the Old Testament of son of Pethuch he dvelt in Jeruslam He describes the locust plagues, sometimes regarded as the locult plagues, sometimes regarded as symbolical and utilities them to foreshadow. the final judement. Peter effectively quoted at Pentecost Joels promise of the Holy Spirit The name means Jehorah is God and designates also 13 other pursons mentioned in the Old Tistament

Joffre Joseph Jacques Césaire I rench information importance in 1870 and saw active John L296 the son of the Imperor Henry relief in the I mane Pri lan War He served VII he became King of Bohemia in 1311 teo in Indo-China 1855 88 West Africa He neglected that country, however, and spent 1894 and Madagascar 1896 99 In 1911 most of his time in France and elsewhere

Joure was made chief of the staff and in 1914, as arranged, he took command of the French armics on the western front He retained that position for over two years in spite of a severe criticism. His plans failed to check the German advance and his own offensives in 1915 were not very successful, but he must be credited with some share in the victory of the Marne and he retained the affection of the rank and file In Dec., 1916 he retired, and in 1917 was created Marshal of France the first for many He was then employed on one or two 1 00 58 ceremonial missions Joffre died Jan 3, 1931

Johannesburg City of Transyaal
957 m from Capetown, and is an important
rallway junction Its port is Lourence Marques
It was founded in 1888 when gold was dis covered and is now the largest and most populous city in the land, the municipal area covering 81 sq m A university was founded in 1921, but was burnt down in 1929 Johan nesburg has a racecourse and facilities for outdoor sports of almost every kind The Star and The Rand Daily Mail are published here The industries are mainly connected with the gold mines, but there is a valuable trade in livestock. It has a broadcasting station (492 M, 5 kW) 203,273 Pop (1931, European)

John and Salome, he and his brother James were Galilean fishermen whom Jesus called to be his disciples James and John were called Boanerges "sons of thunder," apparently because of their impulsive indig-nation. They formed with Peter the innermost circle of Christ s followers John attended the trial of Christ before the sannearm and Pilate, and stood by the Cross He is common memorated on Dec 27, and is distinguished as S John the Evangelist, or S John the Divine According to tradition he lived his later life at Ephesus and died at a great age the last survivor of the apostles. He is regarded the last survivor of the apostles. as the author of the fourth gospel and of the book of Revelation

John the Baptist Christian saint. son of Zacharlas he was through his mother, Flizabeth, a cousin of the Virgin Mary The last of the prophets he led an ascetle life in the wilderness beyond Jordan, preaching the coming of the Messlah and practising baptism. He haptised Jesus Christ, recognising and ack nowledging His identity. He was imprisoned and executed by Herod about A D 28 His day is June 24, and many churches are de dicated to him

John Name of twenty three popes John VIII, pope 872 82 combated the Sameens, sought the conversion of the Slave and crowned as I mperor first, Charles the Bald and then Charles the Lat Ho died in France, and then Charles the Fat Ho died in France, Dec 16, 892 John XII, pope 955 61 crowned Otto I Emperor in 952 He was deposed in 963 and died May 14 964 John XXII, pope 1316 34, made Avignon his residence He died Dec 4 1°27 John XXIII, an anti pope during the Great Schism was elected by the Pisaus, 1410 He convoked, in 1414, the council of Constance which deposed him He died Dec 22, 1419 The others were of minor importance

and Philip VI, kings of France Though becoming blind about 1340, he continued his adventurous life, and was killed at Crécy, Aug 26 1346
His son became emperor as Charles IV
His son became emperor as Charles IV
JOHN King of England He was the Youngest of the five sons of Henry II, and was born at Oxford, Dec. 24, 1167
In 1177 he was made lord of Ireland, and in 1185 he visited that country Like his brothers, he revolted against his father, and when his brother Richard became king in 1189 he acted again in a disloyal fashion In 1199 he began to reign, being crowned May 26 of that year and he reigned for 17 years, a disastrous period A war with France ended in the loss of Normandy, a quarrel with the pope brought on an interdict and a humiliating surrender, the wrath of the barons forced him to sign Magna Charta in 1215 John renewed the war against the barons, who asked Louis of France to come to their aid In the midst of the struggle the king died at Newark, Oct 19, 1216
John's first wife was Isabella, heiress of the Earl of Gloucester He divorced her in 1200 and married a French princess, also named Isabella. He left two sons, Henry III and Richard, Earl of Cornwall

Isabella. He left two so Richard, Earl of Cornwall

John Name of two kings of France John I, the posthumous son of Louis X, was seven days old when he died, Nov. 22. 1316

John II., surnamed the Good, was born in 1319, and succeeded his father, Philip VI, in 1350 He carried on a war with England and was captured by the Black Prince at Politers in 1356 He was imprisoned in London from 1356 to 1360, when he was released. His son broke his parole as a hostage in 1363, so the king returned to London and

London from 1356 to 1360, when he was released. His son broke his parole as a hostage in 1363, so the king returned to London, and died there, April 8, 1364

John King of Poland. A member of the famous family of Sobieski, he was born, June 8, 1624, his father being castellan of Cracow He won renown as a soldier and was soon in command of the Polish army In 1674 he made himself king and reigned for over 20 years Much of his time was occupied in fighting the Turks and in 1676 he regained from them a large part of the Ukraine His greatest exploit was in 1683 when he led his army to Vienna and won a great victory over the Turks, who were besieging that city John died June 17, 1696

John Augustus Edwin. English painter Slade School, London, and soon exhibited at the Royal Academy His figure paintings, such as "Going Down to the Sca" and "The Orange Jacket" attracted much attention, but he is perhaps best known for his portraits. In 1921 John was elected A.R. A and in 1928 R.A.

John Sir William Gosoombe British sculpto London to study art. After a period in Paris, he began to work as a sculptor His pieces

JOHH tor Born in Cardiff in 1860, he went to London to study art. After a period in Paris, he began to work as a sculptor His pleces include statues of King Edward VII at Capetown, the Duke of Devonshire at Eastbourne. Yiscount Wolselev in London and the Earl of Minto in Calcutta. He designed memorials to the Marquess of Salisbury in Westminster Abbey and Sir Arthur Sullivan in S Paul's Cathedral, as well as some war memorials and the regalia and medal used at the investiture of the Prince of Wales at Caernarvon in 1911 He was knighted in that year, having 1911 He was knighted in that year, having been A.R.A. since 1898 and R.A. since 1909

abroad He earned a high reputation as a warrior, assisting at various times the Teutonic Knights the Emperor Louis, and Charles IV incomparable value, setting forth the nature of fellowship with God The letters are usually regarded as written by S. John the Evangelist, our life, and was killed at Creey, Aug 26 1346 His son became emperor as Charles IV Lake King of England He was the

John Testament Assuming his readers are familiar with the synoptic gospels, the writer designs to prove that Jesus is the Christ, the son of God. No parable in the other gospels is repeated, only one miracle is common to all four gospels and four miracles mentioned are unrecorded elsewhere The Judaean rather than the Galilean ministry is developed, and one third of the book comprises the sayings and doings of Christ's last 24 hours The authorship of the book is attributed to S John, but some modern scholars think it was written but some modern scholars think it was written after his death They date it about 140, but differ as to whether the author was one of John's disciples or a stranger

John Name of six East Roman emperors yas born about 1292 and, rebelling against the infant emperor, John Palacologus, had himself proclaimed emperor in 1341 Becoming increasingly unpopular, he abdicated and retired to a monastery in 1354 He died in 1383 He was instrumental in giving the Europe Europe

John Spanish soldier Usually known as Don John of Austria, he was born in Ratisbon, Feb 24, 1547, the natural son of Charles V by Barbara Blomberg He commanded the fleet which smashed the Turks at Lepanto in 1571, and in 1576 became Governor-General of the Netherlands. He died Oct. 1, 1578

John Bull Personification of England, usually depicted as a stout, upright man, in a low-crowned hat, tail coat, breeches and riding boots. The name was originated by riding boots The name was originated by John Arbuthnot in a series of pamphlets, Law is a Bottomless Pit or the History of John Bull, 1712 The weekly paper, John Bull, was established in 1906

John of Gaunt DUKE OF

John o' Groat's House the north coast of Caithness, Scotland. Figuratively, but not actually, the most northernly point of Great Britain, it is 14 m West of Duncansby Head, and is the site upon which a Dutchman, Groot, is said, early in the 16th century, to have built a house with eight doors. The reason of the doors was that there could be no question of precedence among the eight members of the family—each had his own door. family, each had his own door

Johnson Andrew American president. Dec 29, 1808, he first became prominent in Tennessee where he took part in politics and was elected to the legislature in 1843 he became a member of Congress, and from 1853-57 he was governor of Tennessee In 1864 he was elected vice-president and, on Lincoln's murder in the next year, he became automatically president He followed the same policy as his predecessor, endeavouring by conciliation and concession to unite the nation together again Serious troubles, however, arose with some of his colleagues, and he was

Johnson Jack Negro boxor Born at he first became known in 1907 by beating Robert Fitzsimmons in two rounds at Phila delphia Ho became the world's heavyweight champion in 1908, by beating Tommy Burns, and in 1910 won a celebrated battle at Reno over James J Jeffries In 1915 he lost the champion hip to Jess Willard He published Mes Combats in 1914

Johnson Samuel English lexicographer 1709, he was the son of a bookseller He went to the grammar school in the city and then to Pumbroke College, Oxford and acquired a great fund of miscellaneous learning due rather to a powerful memory than to sustained study In 1721 he returned home from Oxford and assisted his father for a time, but the business was a poor one and he became a schoolmaster at Market Bosworth In 1735 he married a widow Flirabeth Porter and opened a school at Edial but this was a failure

In 1737, having already done a little writing Johnson went to London with his pupil David Ourrick, and began to earn a scanty living by writing for the booksellers He reported, or rather compiled, speeches in Parliament for The Gentleman's Magazine and wrote a poem called Continuous Magazine and wrote a poem caused London In 1747, having secured financial support he began to work on his Dictionary which appeared in 1755. He earned a little money too, during these years by a poem The Vanity of Human Wishes, and by con tributing essays to The Rambler. In 1759 to pay for his mother a funeral he wrote a novel Rasselas In 1752 he lost his wife, whom he dearly loved and more than once he was in dearly loved prison for debt

In 1762 Johnson was granted a pension of £300 a year by the state and thenceforward in casier circumstances he wrote little but talked much His wittings during these 22 years were almost confined to The Lives of the Pocts and The Journey to the Hebrides His time was passed in London except for an occasional visit to Oxford or elsewhere and one to France nest to expord or cis where and one to France and his favourite haunts were the Club, which he founded in 1764 and the house of Henry Thrale at Streathum which he frequently visited In argument he generally discon certed his opponents by his remarks, which were the inci-ive expressions of a mind of unusual power backed by a store of unusual information. He died Dec 13, 1784 and was buried in Westminster Abbey

buried in Westminster Abbey

Y typical Fuglishman 'n Johnson stands out for his hatred of Scotsmen and his love of London his delight in talk his strong Tory opinions, and his religious faith His friends in luded Burle Gold-mith Reynolds and Windham but the most devoted of all was James Boswell whose Tife of Johnson is considered the world's greatest blography V ithout the cringing industry of Boswell who treasured every word spoken by his idol Johnson might have been forgotten

Then are many memorials to Johnson and every year his memory is honoured by a necting of the Johnson Society at Lichfield The hou in Gough Square London & C, in

which he lived is now a museum

torate and leader of many scientific expeditions into Central Africa His published works include valuable books on travel and also a History of the British Empire in Africa In his retirement he wrote several novels July 31, 1927

Johnston Thomas Scottish politician Born at Kirkintilloch in 1882 he was educated there and at the Uni 1882 he was educated there and at the University of Glasgow He became a journalist and founded the Socialist organ Forward being also a prominent member of the Town Council of Kirkintilloch and a leader of the Independent Labour Party In 1922 he was elected Labour MP for West Stirlingshire in 1924 for Dundee and in 1929 for West Stirlingshire are trailerships party. In 1924 for Dundee and in 1929 for West Stirlingshire again In 1929 he was made an Under Secretary for Scotland and in 1931 he became Lord Privy Scal, his special business being to deal with unemployment He re signed office in Aug 1931, and lost his seat at the general election in October 1931

Johnstone Burgh of Renfrewshire It stands on the Black Cart in a coal mining district 10 m west of Glasgow and 3 m south west of Paisley on the L MS Rly It has cotton and paper mills, ongineering works and foundries Pop (1931) 12,837

Johore Sultanate and British protectorate of the Malay Peninsula It lies at the south extremity and is connected by road with the Island of Singapore by means of a causeway opened in 1923-24 The sultan is assisted by an executive and a legislative council A British adviser has, by treaty made in 1914 the right to advise him Rubber is extensively grown and is the chief export Johore is the chief town The area is 7678 sq m. Pop (1931) 505 309

Joinery Art of joining and making of fittings of wood for houses, etc it is associated with carpentry The commoner woods used by the joiner comprise deal pine oak manegan; and teak and the work covers such things as the making and litting of wood flooring partitions doors window frames and casements staircases, mouldings, and the special fittings of churches, schools and offices

Joint In woodwork a piece of wood used to join together two other and usually larger pieces. Joints are of several kinds and bear distinctive names such as butt joint, dowel joint, mortise joint, tenon joint and housing joint

Joints are used for one of to o reasons Either the size of the material is insufficient for the purpose or it is desirable to arrange the various components to the best advantage from the point of view of the direction of the grain of the wood and the relative proportions of the various pieces. In the former case the joint is often effected by simply glueing both places of the material and champing them together before the glue sets. The second case comprises all the structural joints such as the tenon and the mortise. In which one part is shaped to fit into a hole made in the other part.

Joint Term in anatom, applied to the articulations between various bones Joints may be classified as movable or im Johnston Sir Harry Hamilton British movable the latter type being represented by the sutures between the bones of the skull of the movable joints the articulation. movable the latter type being represented by the articulation;

between the vertebrae give only a very limited movement. The ball and socket joints of the hips and shoulder allow of a wide play of movement, and the hinge joint of the elbow moves in one plane only. A rotating joint is seen in the head of the radius, and a pivotal articulation in the attachment of the skull to the backbone

Jointure Provision made by a husband predecease Strictly, it is an estate settled in joint tenancy on a husband and wife for their lives, and it thus provides for the wife on her husband's death. A widow cannot claim

both jointure and dower

Joinville Jean De French historian Born in 1224, he was the head of a noble family and was the lord, or sire, of lands in Champagne In 1248-54 he accompanied Louis IX (S Louis) on crusade He is remembered for his Credo, or confession of faith, 1250, and his Lafe of S Louis, which makes him one of the three great chroniclers of Mediaeval France The biography, which represents the king as a great Christian hero, has been translated into English He died July 11, 1319

Jokai Maurice Hungarian writer Born Feb 19, 1825, he was educated at Presburg He adopted the career of a journalist, and in 1863 became editor of a daily paper in Budapest He mixed, too, in political life, and from 1861 to 1897 was a member of the lower house of the Hungarian legislature In 1897 he became a member of the upper house Jokai's claim to fame rests on his novels and stories, many of which have been translated into English The titles of some of these are, Midst the Wild Carpathians, The Turks in Hungary, The New Landlord, Eyes Like the Sca, and Black Diamonds He died in Budapest, May 5, 1904

Joliette Town of Quebec, Canada It stands on the Assomption river, 36 m north of Montreal on the CP. and CN Rilys. It is an agricultural and lumbering contre, and has quarres and manufactures of flour and paper Pop 9100

Jolly Boat Small boat belonging to a ship It is manned usually by three or four sailors and is used for odd work. Jolly is a slang naval term applied to a marine

Jonah Hebrew prophet He announced to Jeroboam II forthcoming victories over the Aramaeans (2 Kings xiv) A book of the Old Testament bearing his name professedly narrates an episode in his life The unknown writer sought to show that divine care was not limited to the chosen race The incident of the whale, suggested by Persian mythology, symbolised Israel's temporary absorption by Assyria.

Jonathan Name of ten persons mentioned in the Old Testament The most important was Saul's eldest son, who aided his father in the Michmash campaign to throw off Philistine oppression, and shared his fate at Gilboa. His friendship with David inspired an incomparable elegy from the latter (2 Sam. i.)

Jones Ernest Charles English writer and Cnartist He was born in Berlin, Jan. 26, 1819, being the son of a soldier who was there in attendance on an English prince In 1841 he wrote a story, The Wood Spirit, and in 1844 he became a barrister He then joined the Charlists and, having refused a

bequest of £2000 a year to leave it, became one of the leaders of the movement. In consequence of his share in the events of 1848 he was sent to prison for two years. He tried several times to enter Parliament, but in vain. He died Jan 26, 1869 Jones wrote The Labourer and other works of a social character as well as an epic, written in prison, The Revolt of Hindostan.

Jones Henry Arthur English dramatist. Born at Grandborough, Buckinghamshire, Sept 28, 1851, his father was a farmer He was educated at a local grammar school and began life as a clerk in London He then became a commercial traveller and so remained until his first plays had been produced successfully These were 4 Clerical Error, produced in London in 1879, and The Silver King, 1882 During the next 50 years, Jones wrote a regular succession of dramas. These include Saints and Sinners, The Case of Rebellious Susan, The Liars, Mrs Dane's Defenre and The Pacifist He also wrote Foundations of a National Drama and other books on the subject He died Jan 7, 1929, and afterwards his Life, written by his daughter, appeared

Jones Inigo English architect. Born in London on July 15, 1573, he started life as a joiner He studied architecture and came under the patronage of the Earl of Pembroke, who enabled him to visit Italy and France Jones was the first to introduce pure Renaissance architecture into England, adapting Italian ideas, especially those of Paliadio, to English requirements One of his innovations was the internal staircase He designed the Banqueting Hall, Whitehall, and Greenwich Hospital He died June 21, 1652

Jones John Paul American sailor. Born in Kirkcudbrightshire, July 6, 1747, his name was John Paul, but later he added that of Jones to it He went to sea when a boy and after some years settled in Virginia In 1775, the colonies being at war with Great Britain, he was given command of a ship and for some years he made constant attacks on British shipping He operated a good deal around the coasts of England and Scotland (which he knew) and was the most feared of all freebooters. His numerous exploits included a landing at Whitehaven, and the defeat of two English ships off Scarborough After the end of the war Jones became an admiral in the Russian navy, which he led against the Turks He died in Paris, July 18, 1792.

Jonquil Hardy perennial bulbous herb of various species of narcissus of the amaryllis order The Spanish Junquillo—httle rush—so called from its form and narrow half-cylindrical leaves, 8-12 in long, is primarily N jonquilla which was introduced into Tudor England for its fragrance and colour.

Jonson Ben English dramatist and poet Born in London, about 1573, he was educated at Westminster and probably Cambridge, and joined the English army in Flanders Returning about 1592, he became an actor and hack dramatist for Henslowe, although his first comedy, Ercry Man in his Humour, 1508, was produced by a rival company In 1603 he wrote a tragedy, Sejanus, and in 1604 produced the first of his 30 court masques about which he later quarrelled with Inigo Jones He published his collected works in 1616 and was granted a pension by James I He died in 1637 and was buried in Westminster Abbey The greatest English dramatist after Shakespeare, his plays include Cynthae's Revels, The Poetaster, Volpone, and Epicocue.

JONSONG

(25,447 ft.) Alternative name for Jaffa (7 v), a Joppe a seaport of Palestine, 53 miles I north west of Jorusalem Irish actress Dublin in Jordan 1762, she first acted in Dublin in 1777 She moved to London in 1785, where she soon gained a great reputation made her last soon gained a great reputation made her last pury Lane until 1809, and made her last oppearance at Covent Garden in 1814 Though for 21 years the mistress of William IV, she died in obscurity at St. Cloud, France, July 3, died in obscurity at St. Cloud, France,

Jordan Mt. Hermon, three peronnial streams unite to flow through Lake Huleh at streams unite to flow through Lake Huleh at streams unite to flow through Callee to the sea level down to the Sea of Galilee to the sea level down to the Sea of Galilee to the sea level down to the Sea of Realilee to the sea level down to the Sea of Realilee Theorem the river falls precipitously for 200 m to the sea level down to the Sea of Realilee The sea level down to the Sea of Realilee Theorem Palestine and Never navigable, it has been throughout history and effective barrier between Palestine and the reflective barrier between regarded the Transjordan The Jews of old regarded the Transjordan as a sacred river and it figures much in Jordan as a sacred After the Great War a Christian Imagery After the Great waters seheme was put forward for using the waters Christian imagery After the Great war a solution was put forward for using the waters of the river to generate electric power

Jordanes diver to generate electric power

Historian of the Goths Gth

Generat tribe of the Alani He wrote two

works a history from the Creation to his own

time, and a history of the Goths, 551

Jordans It is about a m from Chalfont St. Glies Here the Society of Friends have their pact formous meeting house and there are onest famous meeting house, and there are nost famous meeting house, and toloning is the burial ground which contains the tomb of William Penn

JOSEPH Benjamin 8 elder brother Born at Haran his story, told in Genesis XXVII XI. Tolders the paternal favouritism and fraternal recounts the paternal favouritism and fraternal restorer which led to his being carried cantive recounts the paternal invouritism and fraction leadings which led to his being carried captive lealousy which led to his being carried captive to Fgypt, where his skill in interpreting dreams and him vizior to the king. He contrived the settlement of his father and brethren in the contribution of his father and Manasseh, to she in the return some centuries later, to Canaan on the return some centuries later, to Canaan gave their names to two of the tweeve tribes on the return some centuries later, to Canaan

on the return some centuries later, to Canaan

Joseph Husband of the Virgin Mary and

Fospel's recount his betrothal to Mary and his
before father of Jesus and his
cospel's recount his betrothal to Mary arently
life as a exprenter at Nazareth he apparently
alled before Christs public ministry began
life before Christs public ministry began
our Jord's brothers are usually regarded as
built brothers Joseph's sons by a former wife
half brothers Joseph's sons by a former wife
he is common morated on Mar 19

Rich and

JUDGER OF TRIBINGUISM influential Jew mentioned in the four gospels of Legan to Pilate after the Jew mention and as ed for the body of Jesus, which he prepared for burial and laid in a tomb which he prepared for burial and laid in a tomb His name occurs in mediac callegends concerning

JONSUNG

JONSUNG

Peak of the Himalayas a record of mountaineers created a record in Joseph then put in Joseph then were into offect various reforms, but his home was into offect various reforms, but his mother, into offect various reforms, but his not were alike unsuccessful. He died for Joseph then were alike unsuccessful in the offect various reforms, but his not were alike unsuccessful. He died for Joseph then was determined by the record in the forms, and fought against Turkey in 1788.

Joppa a scaport of Palestine, 53 miles Leopold II

Joppa a scaport of Jorusalem Irish actress Born in Joseph II

Leopold II

Loopold II

TOULE

osephine Empress of the French A daughter of Joseph Tascher daughter of Joseph Tascher JUSCUIIIIU daughter of Joseph Tascher de la Pagorle, she was born in Martinique, June 23 1763. In 1777 she married the Vicomte de Beauharnais and lived in France In 1794, de Beauharnais and lived in France a son, her husband was put to death, leaving a son, her husband was put to Josephine married Eugene, and a daughter, Hortenso, later Queen of Holland In 1796 Josephine married Napoleon Bonaparte, and in 1804 was crowned Empress In 1810 she was divorced She died May 24, 1814

Empress In May 24, 1814

May 24, 1814 Flavius Jewish historian JOSEPHUS Born in 37 BC at Jorusalem, of a family of priests, he joined in the rising of the Jews in AD 68 and was taken prisoner, the Jews afterwards released by the Romans but was afterwards released by the Romans has the was in Jorusalem when it was taken but but was atterwards released by the Romans. Ho was in Jerusalem when it was taken, but afterwards lived in Rome where he was berriended by three emperors.

Josephus lives because of his books on the Josephus lives because of his books on the history of the Jews, works of very high value history of the Jews, works are The Jewsh War As translated, their titles are The Jewsh War and Aninguities of the Jews He also wrote an autoblography and a defence of Juduism autoblography about 100

and Antiquities of the Jews He also wrote an autobiography and a defence of Judaism against Apion They have been against Apion They Wilston, 1737

Joshua the Israelites into Canaan He was a son of Nun and of the tribe of liphraim was a son of Nun and of the tribe of iphraim
He was one of those sent to spy out the land of
He was one of those sent to spy out the land of
He was one of those sent to spy out the land of
He was one of those sent to spy out the land ses
He during the wanderings in the wilderness
He during the wanderings in the wilderness
He during the directed many of the native
took parked was not the land among the tribes
I he died at Mt Ephraim at the age of 110
He died at Mt Ephraim at the age of 110
The Book of Joshua, the sixth book of
The Book of Joshua, the sixth book of
Old Testament, describes the exploits of
Joshua The first 12 chapters tell how Canan
was conquered the next nine describe the
division of the land among the tribes and the
division of the land among the tribes and the
last three tell of Joshua s death and burial
last three tell of Joshua Box of Judah
He was a son of

last three tell of Joshua 8 death and burial

JOSIAh King of Judah He was a son of King of Judah He was a son of the Mann, whom he succeeded when a law book, apparently part of Deuteronomy, and alled work This led him to make or an allied work This led him to make or an elled work This led him to make a law for the matters when the drastic reforms in religious matters when the fryptian King Neeho crossed Palestine on his Arsyrian campaign Joslah opposed him and Arsyrian the Megiddo He reigned from was killed at Megiddo He reigned from the fryption of the first three campaigns and the second from the fryption of the first three campaigns and the first three campaigns are called the first three campaigns and the first three campaigns are called three campaigns and three campaigns are called three campaigns and three campaigns are called three campaigns are called three campaigns are called three called t

was killed at the first to 608 B c The popular name for a Chineso Idol The JOSS The popular name for a chinese fundamental to the color of the callor a joss house A joss stick is a piece of fragran tinder mixed with clay to be burned as incense tinder mixed with the mixed with

Joseph of Arimathea influential findential f

of heat and energy, and in this field his discoveries were of immense importance. He died Oct. 11, 1889

The joule, named after him, is a unit of electrical work or energy, practically equivalent to the work done, or heat generated, in maintaining for one second a current of one company. taining for one second a current of one ampère against a resistance of one ohm, equal to 10,000,000 ergs

Journal Daily record The word is variously employed, for a daily newspaper, eg, Le Journal, a French paper founded in 1892, for a book used in double entry book-keeping, a record of the proceedings of a society, or public body, and for a personal diary In engineering, it is that vertex of a reversible report of the provider of the profiler chaft in contact with the part of a revolving shaft in contact with the bearings

Journalism Profession or trade of writing and preparing material for newspapers and other periodicals Something of the kind has existed in most civilised countries since the invention of printing, but modern journalism only dates

printing, but modern journalism only dates from the 19th century, when the mass of the people learned to read, although Defoe has been called the first journalist. It is now an important and influential profession.

In Great Britain societies exist to protect the interests of the journalist. They are the Institute of Journalists, which was established in 1884, and the National Union of Journalists. There is also a Society of Women Journalists in London. The universities of London and Bristol provide courses in journalism and there In London The universities of London and Bristol provide courses in journalism and there is a School of Journalism at Columbia University, New York The Press Club is a journalistic centre in London, and in 1931 steps were taken to form a London livery company for those connected with newspapers JOURNALISM AS A CAPETE LAURENCE.

JOURNALISM AS A CAREER Journalism has been defined as "The writing and prosentation of news, comment and opinion in newspapers or other periodical publications". It is the profession for those who can look at life and the events of the day, and write of them in such a manner as to interest, amuse, or instruct the public It is a profession which should be entered with the eyes wide open, for the pitialls are many, and the competition is

intense

The safest method of ensuring a steady income is to obtain a post on a newspaper or periodical, and here the openings for women are steadily increasing most papers require at least one woman on their permanent staff, some are staffed almost exclusively by women A London papers however is every total for A London paper, however, is averse to taking on its staff any one who has not been trained on a provincial paper, while many provincial papers recruit their staffs from boys and girls who have just left school, and train them on the paper, beginning with office work. Every paper, however, is constantly on the look-out for fresh talent.

It is nearly always necessary to have shorthand in the early stages of journalism Practical experience provides the best, and indeed the only adequate training for a successful career in journalism

The staff journalist on a London daily usually receives a salary something in the region of seven to ten guineas a week. The editorial seven to ten guineas a week. The editorial staff is usually higher paid (nine guineas per week is the minimum except on the financial and sporting papers and agencies) and leader writers and editors receive anything upwards from £1500 a year The payment on a profrom £1500 a year

His great work was to investigate the problems vincial paper usually begins at three guineas of heat and energy, and in this field his dis- a week (editorial minimum, £4 7s 6d), and rises to seven

rises to seven
Free-Lance Journalism is precarious and for
the people who handle "news" and "features"
the opportunities are strictly limited The
outlook is more favourable in fiction writing
(which cannot legitimately be described as
journalism) and in certain specialised branches, but the competition is severe from the large numbers of people to whom such writing is a spare time occupation In this kind of work a woman can compete on equal terms with her men colleagues, while she has the monopoly of certain subjects Payment varies from 15s per thousand words to a very much higher figure, according to the value of the article and the reputation of the writer

It is advisable for the practising journalist to become a member of either The National Union of Journalists (7 John Street, London, W C 1) or The Institute of Journalists (2 and 4

Jove Alternative name for Jupiter (qv), the chief god of Roman mythology

He was born Roman emperor Jovian Koman empetor and was captain of the imperial bodyguard during the Persian campaign On Julian's death he was

Persian campaign On Julian's death he was proclaimed emperor, June, 363, when he signed a humiliating peace with Persa He died in Bithynia, Feb, 364

JOWett Benjamin English scholar Born at S Paul's School and Balliol College, Oxford, of which in 1838 he was elected fellow He was ordained and worked at Balliol as a tutor for 28 years In 1855 he was appointed Professor of Greek, and in 1870 was chosen Master of Balliol He retained that position until his death, Oct 1, 1893

JOWitt Born in 1885, the son of a clergyman, he was educated at Marlborough and New College, Oxford In 1909 he became a barrister and in 1922 he was elected Liberal MP for the Hartlepools He lost his seat in 1924, but in 1929 he was returned to Parliament by Preston He then joined the Labour party,

by Preston He then joined the Labour party, was made Attorney-General and was knighted He continued in the same office when the national government was formed in 1931, but falled to secure a seat in the House of Commons, and returned to his practice at the Bar

Joyce James Irish writer Born in Dublin, Feb 2, 1882, he was educated at Clongowes and graduated at the Royal University He wrote some verses, a equeated at Clongowes and graduated at the Royal University He wrote some verses, a play and a volume of short stories The Dubliners, before he became widely known as the author of the extraordinary novel Ulysses which, owing to its nature, was published abroad in Paris, not in England

Juan Fernandez Group of islands in the S Pacific, some 400 m from Valparaiso. They belong to some 400 m from Valparaiso They belong to Chile Of the three voicanic islands, only the largest, Mas a-tierra, is inhabited It was discovered about 1565 by Juan Fernandez, and was inhabited 1704-09, by Alexander Selkirk, which gave Defoe the subject for Robinson Crusoe It was occupied by Spaniards in 1750, and later was a Chilean penal station until 1913 A wireless station is on the island

Jubaland Province of Italian Somali-land It lies south of the Juba River, and was a British possession, as part of Kenya until ceded to Italy in 1925 The

country is largely unexplored and its climate tropical Kismavu is the capital and chief port. Its area is 35 000 sq m Pop 100,000 The Juba River rises in Abyssinia and, after a course of some 1000 m, empties into the Indian Ocean It is navigable for small

vessels for 400 m

Jubilee Celebration of fifty years The real jubilee is a Jewish festival commemorating the Exodus Proclaimed by commemorating the Exodus a jobel, or ram s born, on the Day of Atonement every fiftieth year, slaves were freed, land left untilled, and certain allenated property restored (Lev xx) It lasted for a full year, but was rarely observed. Pope Boniface VIII instituted a jubileo year in 1300

Nowadays the 50th anniversary of any event is a jubilee cg, of Queen Victorias reign A 60th anniversary is called a diamond jubilee The late King George V celebrated his Silver Jubilee (25 years' reign) in 1935

The Book of Jubilee, or Little Genesis was an apocryphal work of the 2nd century B c paraphrasing in 49 year periods the world's listory from the creation to the lawgiving on

Judah Fourth son of Jacob and Leah Born at Haran, he superseded his elder brothers and the most powerful of Israel's twelve tribes bore his name After the death of Solomon Judah was the name of one of the two kingdoms into which Palestine was divided

The system of Tewish religious Judaism beliefs, practices and Judalsm is based on an ethical monotheism At an early date the Jews abandoned poly theism for a belief in the unity and spirituality of God linking together morality and religion During the post exille period Judaism de veloped into that system of rigid obedience to the Law and priestly sacrificial worship, which existed in the days of Christ The roots of Christianity are fixed deep in Judaism, and l'aul, the greatest of Christian apostles was a

Hebren of the Hebrews who never lost his sense of the greatness of his nation a spiritual

heritage

Judas Name of several biblical persons They include (1) A disciple of Christ, not Iscariot perhaps Lebbacus or Thaddeus and son or brother of James (Luke vi) (2) The Galilean who lod a revolt (Acts v) (1) Indea Macarbara Actathlas Idaet vol. (.) Judas Maccabaeus Mattathlas' eldest son, who guined for the Jons religious but not political independence. He died in 161 B C (1 Mace III ix)

Judas Iscariot One of Christ stwelve wards betrayed him A son of Simon of kerioth apparently Hazor he was the only kerioth apparently marked and He acted as anostle who was not a Gallican He acted as purse bearer to the group. The account of his remore and suicide in Matthew xxvii differs from the one in Acts i

Judas Tree Small tree of the lega It is a native of the Mediterranean region Growing irregularly its bronches produce abundantly fascilles of rosy purple per like flowers rarely white beforemouth kidney shaped leaves fully before the appear The flowers impart an acid flavour to salads Mediaeval woodents represent Judas Iscariot as suspended from its branches

Jude Epistle of Book of the New Testa ment. Its superscription attributes

that it was written at a later date by another writer also called Jude It borrows from the Apocrypha, and most of it is practically contained in the second epistle of Peter It consists of one chapter denouncing false teaching

Judea District in the south of Palestine and west of the Jordan Its boundaries towards Samaria and Idumea were ill defined and variable. In the New Testa ment the word is used loosely for all western Palestine

High legal official who hears cases Judge and tries criminals Every judicial system has its judges, who are invariably lawyers of considerable experience Each is attached to a court, and together they form

the judiciary under a chief judge

In England as clsewhere judges are of several grades
The highest are the Lord Chanceller and the law lords who sit in the House of Lords
Then come the lords justices who form the court of appeal and then the judges of the high court, who are knighted on appointment and receive salaries of £4000 a year They must be barristers of at least 10 years' standing The judges of the court of appeal are recruited from the judges of the high court and receive a somewhat higher salary. All are entitled to pensions after serving for 15 years They are appointed by the Lord Chancellor and are addressed as my lord As representatives of the sovereign, they are received in state when they go on circuit, and it is high treason to attack them

There are also in England county court judges one to each circuit These receive salaries of £1800 a year and are addressed as your honour They must be barristors of at least seven years' standing and are appointed

by the Lord Chancellor

In Scotland judges are attached to the two houses of the court of session Those who sit in the inner house, or court of appeal are given the style of lord In both parts of Ireland the courts are staffed by judges on the English model

The Judges of the Bible were the men who ruled over the Jons before Saul was chosen king They existed for about 450 years among them were Gideon and Samson

The Judge-Advocate-General is an official of the British army He acts in an advisory capacity to the crown on matters of military law, especially those concerning courts martial, all of which he or one of his assistants attends. The office dates from the 17th century assisted by a deputy judge advocate general Similar duties are performed for the navy by the judge advocate of the flect

Judges Book of Book of the Old Testa ment With its companion Ruth it is found between the Joshua story of Israel s settlement in Canaan and the books of Samuel and Kings concerning the monarchy (1) An introductory survey of the comprises conquest (2) A narrative showing how the people's transgression led to foreign oppression and how, to end this, warrior judges notably Jephthan and Samson, arose at (3) Certain episodes in the history Gideon intervals of Israel and stories about various judges and other personages Its authorship is unknown, but it was probably written in the 7th century BO

Judgment In law a decision of a court in civil cases It is delivered it to a brother of James, commonly identified by the presiding judge and is carried out by with our lord's brother Some think, however, officers of the court. In the House of Lords

and the judicial committee of the privy council } each judge reads his own judgment, the decision being that of the majority

A judgment summons is a summons taken out against one who will not pay a bill The creditor must prove that the debtor can pay, and the judge will then make an order for the payment of a certain sum, usually by instal-ments If this is not paid the creditors can apply for the debtor to be sent to prison Technically he is sent to prison for contempt of court, not for failure to pay a debt

Judgment The Last. The idea that God will come to the world for judgment is found in the Old Testament prophets In the New Testament the same belief is represented in some places in dramatic fashion by means of apocalyptic imagery. Such passages are generally regarded as having symbolic value in the proclamation of the spiritual truth, that men's ultimate fate will be determined by their relation to Jesus Christ

Iudicial Committee Committee of the prive Committee council that acts as the supreme court of appeal from the courts of the British Empire outside Great Britain and in ecclesiastical cases within Great Britain and in ecclesiastical cases within Great Britain. Its members are the Lord Chancellor, the Lord Chief Justice, former Lord Chancellors and other peers who have held high judicial office and are members of the privy council, as well as any persons who are, or have been, judges of the supreme courts in any of the British Dominions.

The committee ways set we in 1822, but its

In any of the Brush Dominions

The committee was set up in 1833, but its
present constitution dates from 1928. The
judges need not be unanimous in their decisions, a majority is sufficient. They sit
without robes and their judgments take the
form of recommendations to the sovereign
The committee's authority is not recognised
by the Irish Free State.

by the Irish Free State

Judicial Separation Term used in English law for a separation of husband and wife ordered by the High Court of Justice It can be granted for adultery, cruelty or desertion for not less than two years. It is more serious than an ordinary separation order which can be made by a magistrate

Judith Heroine of the book of Judith This fictional work, which is in the Apocrypha, purports to narrate an episode in Jewish history recalling that of Jael Judith, a wealthy widow, visited the besleging Assyrian camp at Bethulia and feasted with the general camp at Bethalia and leasted with the general Holofornes She then made him drunk and treacherously beheaded him The theme inspired a vigorous early English poem of the Sth-10th century This is preserved in the MS which also contains Beowulf

Juggernaut Name, meaning "Lord of the World," of the Hindu rod, Vishnu, as worshipped at Puri in Orissa god, Vishnu, as worshipped at Puri in Orissa The idol is kept in a temple in that city, but on certain festivals it is taken out and dragged in a huge car through the streets The cere mony takes several days Fanatics sometimes throw themselves under the wheels of the car and are killed, so giving rise to the sinister associations of the word

Jugurtha King of Numidia His uncle dom to his two sons and to Jugurtha who murdered both and became sole monarch Derying Rome and resorting largely to bribery, he was taken by Marius, exhibited in his Roman triumph, and finally killed in 104 B c

Roman triumph, and many kined in 104 8 C Sallust wrote his life

Jujube Name of a small tree, Zizyphus now grown in Mediterranean countries The plant bears leathery leaves with thorny stipules and small greenish flowers followed by red or black only and fachy truits. There were used black sub-acid fleshy fruits These were used formerly for flavouring the lozenges known as jujubes

Ju-Jutsu or Jiujitsu Japanese method of offence and defence without weapons in personal encounter It was at first a secret art practised by the nobility, but later it developed into a national system of physical culture for both sexes, especially in the army.

navy and police

Early in the 20th century schools arose in Great Britain, Europe and the United States, usually under Japanese exponents, and demonstrations of jujitsu were given in music halls and other public places. The system was studied by the London police and other forces. Using anatomical knowledge the defendant seeks, by certain locks, strangle holds and twists, to divert the adversary's muscular strength to his undoing

Julian Roman emperor Born in Constantine in 331, he was the nephew of Constantine the Great and was named Flavius Claudius Julianus He studied in Athens and later abandoned Christianity, whence his name of Julian the Apostate In 355 his cousin, the Emperor Constantine, made him joint ruler, married him to his sister, Helena, and put him in charge of Gaul There he wan several victories and gained the high he won several victories and gained the high regard of his troops who, in 360, revolted and proclaimed him emperor Owing to the death of Constantine in 361 he secured the throne of Constantine in 361 he secured the throne without trouble, but he only reigned for two vears. He tried to restore the pagan religion and deprived the Church of its special privileges, although he tolerated the Christians In 363 he organised a campaign against the Persians. Having invaded their land he was mortally wounded and died June 26, 363

Julian Calendar Calendar as retied by Julius Caesar in 46 B c It was in use in Western Europe until a D 1752, having been revised further by Pope Gregory XIII in 1582 The Julian Year was of 3654 days with a leap year of 366 days every fourth year, and the intervening three years of 365 days

Julienne Clear soup containing herbs and vegetables cut into long narrow shreds It was named in the 18th century after Julien, a French caterer in Boston, USA

Julius Name of three popes Julius I was Pope from 337 to 352 Julius II. was born in Italy, Dec 5, 1443, of the family of Della Rovera. His uncle, Sixtus IV, made him a cardinal in 1171 and he lived the life of a wealthy Italian prince, taking part in warfare and encouraging literature and art In 1503 he succeeded Plus II as Pope and reigned for 10 years As a temporal ruler he was successful He won back much of the land taken from the Church and his greatest exploits were the formation of leagues that humilated Venice and France He died in Rome Feb 20, 1513
The portrait of Julius by Raphael is one of the world's masterpleces Julius III was Pope from 1550 to 1555

Town of India, also spelt Jalandhar It is 47 m. from Jullundur

Amritar and was once the capital of a Rajput Lingdom district in which wheat is grown

Jumna Himalayas, and, fed from mountain snows and joined by numerous tributaries, flows through the United Provinces to join the Delhi, Ganges at Allahabad Agra  $\mathbf{a}$ nd Muttra are on its banks, its length is 850 m

Jumping Branch of athletics It is a feature at almost all athletic contests, including the Olympic Games In contests, including the Olympic Games in modern times the long and high jumps are the chief forms C Nambu (Japan) created a record in the former with 26 ft. 2; in in 1931 W Marty (USA) in a high jump, reached 6 ft 9; in in 1934 There is also a pole jump, but this is less popular

Jumping Hare South African rodent the springham (Pedeles caffer), it averages 2 ft. in length with rather longer tall, and is a burrowing night feeder It owes its name to its ability to jump, sometimes it covers as much as 30 ft. at a single bound

Jumping Mouse Genus of small North America and China. It lives in forests, home in clefts in the rocks About 3 in long, its jumping powers are remarkable sometimes reaching 10 ft. It belongs to the genus Zapus

Jumping Shrew Family of African insectivorous mammals also called elephant shrews to Aslatic tree shrews, they are mainly noc turnal Their long hind legs make kangaroo like leaps

Juneau Capital of Alaska In the S E Channel, it was founded in 1880 as Harrisburg and superseded Sitka as the capital in 1906 The centre of a gold mining region, it is also a fishing lumbering and trading centre Pop (1930) 4043

Jung Karl Swiss psychologist Born at Basle, July 26, 1875 he was one of Froud's leading pupils until 1911 and shares the latters views as to the significance of un conscious mental conflict and repression. His conception of the unconscious is, however, wider and more vital than that of Freud, nor does he give to sex quite the same importance Recent publications include Contributions to Analytical Psychology (1928) and (with Richard Wilhelm) The Secret of the Golden Flower (1930)

Jungfrau Mountain in the Bernese Ober I and, Switzerland It is on the border between Berne and Valais and near the town of Interlaken It was first elimbed in 1811 by the Meyer brothers It is 13,670 ft high and is a favourite peak for climbers

Jungle Rank and tangled vegetation large and small sometimes almost impenetrable, or the more or less swampy region so covered The Angle Indian word first denoting such regions as the teral beneath the lower Himalayas, nowadays means any marshy thickset growth in tropical lands Australian mound birds and brush turkeys are called jungle fowl

Juniper Genus of evergreen trees of the collection of the discovered with the temperate and colder parts of the northern hemisphere and bear fruit like herries. The collection of the Romans, also bemisphere and bear fruit like herries. The common juniper grows freely in Great Britain.

To do well it needs a moist, deep loam and a

nd was once the capital of a Rapput 10 00 11 is now the chief town of a sunny position when is grown Pop 71,000 | The fruit of the juniper is used to flavour which wheat is grown by the gin and as a diuretic in medicine The wood is hard and smells of turpentine

> Series of political Letters of Junius letters of Series of political They appeared in The Public Advertiser between 1767 and 1772 over the name of Junius and were published as a bool in the latter year. They were attacks on the ministers latter year of the day, including the Dukes of Bedford and Grafton and even the king, George III The printer H S Woodfall, was prosecuted for printing them, but was acquitted

The letters aroused extraordinary interest and were written by one who knew a good deal about affairs of state, both within and without, and was able to express himself in an arresting and forcible way The secret of the authorship has never been discovered, though Sir Phillp Francis is regarded as their most

Junk Type of sailing vessel used by the Chinese and Japanese It has a high Chinese and Japanese with three masts having square sails of matting

The term junk is applied to old ropes and cordage on ships, used for making oakum and mats also for lumber and the salt meat formerly supplied to ships

Junker Name used for the landowners in Prussia and North Germany generally Many of them entered the army generally and their influence, coupled with a good deal of arrogance, made them very influential before 1914 The merchant princes of Danzig were also called junkers, the name being perpetuated there in the building called the Junkerhof The word means a young man

Junket Dish consisting of sweetened milk thickened with rennet into a curd It is sometimes flavoured with brandy or liqueur and sprinkled with grated nutmeg Devonshire junkets are served with clotted cream. In olden days merrymaking at a feast or picule was called juni eting

Juno Chief Roman goddess Worshipped by women at all life s crises, she was identified especially in literature, with the Greek Hern, as such becoming Jupiter s sister and wife, the mother of Mars and queen of As every Roman had his genius, so every woman had her Juno, at childbirth she became Juno Lucina

Junta Spanish word for a council In Spain juntas were formed to manage the various departments of state and there was a supreme junta of the Inquisition In 1806 a junta was formed to organise resistance against the French In England the word suggests corruption or at least inefficiency

Jupiter Largest of the outer planets of the solar system. It has a dia meter eleven times that of the earth, and has the form of an oblate spheroid, that is owing to the rapidity of its axial rotation, there is a flattening at the poles with a bulging outwards in the equatorial region Its mean distance from the sun is 483 million miles, and it has a year equal to twelve of our years and a day of 9 hr 56 min Of its nine satellites four are about the size of the moon, and were the

of Juno god of thunder, rain and storm, he was given many auxiliary names, such as Pluvius and

Jura Island of the Hebrides Part of the county of Argyllshire, it is separated from the mainland by the Sound of Jura, and has an area of 160 eq m A rugged and bleak island, it has hills, the Paps of Jura, rising to 2500 ft. Cattle and sheep are reared, and there are deer forests. Pop 600 The Sound of Jura is 21 m long

European mountain range Jura ates the Rhine and Rhône valleys and forms part of the frontier between France and Switzerland. About 150 m. long and 40 m broad, the mountains have an average height of about 2400 ft., with peaks of over 5000 ft. Jure is also the name of a department

Jurassic One of the larger geological name from the Jura Mountains and comes between the Triassic and Cretaceous systems The succession of strata consists of an alternation of clays and limestones with sometimes beds of sand The system is divided into four coups: the Lias at the base with lower, middle and upper Volite above. It was the age of ciant reptiles such as the ichthyosaurs, plesio-saurs, etc, and of the earliest bird, archaeopterrx.

Jurat Literally a person who is acting under an oath. It was and to some It was, and to some extent is still, used for certain officials of the members of the legislatures of the Channel Islands are known as jurats, and formerly the aldermen of the Cinque Ports were similarly designated.

JUTISPTUGENCE Science of law It particular kind of law, or the law of any particular country, but with its general principles A great deal has been written on the subject, which was clarified by John Austin in his Lectures on Jurisprudence. Later writers include Sir H. Maine, Sir P. Vinogradoff and Sir T. E. Holland in England, while much valuable work has been done by French, German and American writers such as Savigny and Story. At Oxford there is an honours school of jurisprudence and there are professors and lecturers on the subject at most of the universities. See Law.

Jury in England a body of persons chosen to give a verdict in trials of importance, both civil and criminal Trial by is a very old custom in England and something of the kind existed before the Norman Conquest, although the early juries were witnesses rather than judges they declared the law, rather than judges decided the sentence

To-day there are three kinds of jury The grand jury consists of any number from 12 to 23 It was formerly at assizes, to examine the obarges against the various accused persons and decide if they were to go to trial However, with certain exceptions (See Grand Jury) grand junes were abolished in England in 1933

As the chief of the gods and the for the verdict. It must be unanimous; inder, rain and storm, he was given if it is not, the jury is discharged and a fresh illiary names, such as Pluvius and one called In Scotland a jury can return a many auxiliary names, such a large many auxiliary n was a jury for every inquest, but since 1927 it has not been necessary to have one except in cases of death by violence

Any man or woman, between the ages of 21 and 60, with certain exemptions, such as doctors and clergymen, is liable to be called to serve on a jury and must serve unless a good reason for absence is given. A list of persons eligible is prepared by the local authorities and from this the juries are picked as required. as required In important cases the greatest care is taken to keep the jury from outside influences, and anyone attempting to bribe a juror can be heavily punished. Jurors receive a small fee

Justice of the Peace  $\frac{In}{Britain}$  Gr man or woman appointed to keep the peace and often called magnistrate. These justices are appointed by the Lord Chancellor for the various counties and such cities and boroughs as have a commission of the peace. Their duties include holding police courts, where minor offenders are tried, and forming in the counties the courts of quarter sessions. Oaths and depositions can also be taken before them

and they can sign warrants

The justices first appeared in the 13th
century and since 1919 women have been Mayors and chairmen of urban elimble district councils are justices by their office All others are appointed for life

Justiciar In mediaeval England the chief officer of state. There were justiciars in England from the time of William I. to that of Henry III., their office originally corresponding with that of the modern Lord Chief Justice The Scottish supreme court for criminal cases is known as the High Court of Justiciary.

Justiciary the indees and the courts of

Justiciary Term sometimes used for the judges and the courts of law as a whole In Scotland the High Court of Justiciary is the official name for the supreme court of criminal jurisdiction.

Justification Word used in law and theology. In English law a person can plead justification to a charge Word used in law and of libel or slander, he can also do so if charged with violence He must prove in the former case that the alleged libel or slander was true and in the latter case that his life, or that of his wife or child, was in danger. If charged

his wife or child, was in danger. If charged with a criminal libel he must prove that the words were published for the public benefit. In theology the phrase justification by faith is used. It means that the believer can by faith be freed from the consequences of his sin.

Justin Two Eastern Roman emperors, probably a Goth, and was proclaimed emperor on the death of Anastasius in 518 He died How- in 527.

grand juries were abolished in England in 1933 in 565 He became subject to recurrent fits of The petty jury consists of 12 persons and insanity after 574 and appointed Tiberius as these, having heard the case, are responsible Justin II. succeeded his uncle, Justinian I

Persia, and the barbarians overran North Italy and the Danubian and Carpathian provinces

He died Sept 26, 578

Justinian Justinian I was born May 11,
483, in Illyria He was the son of a peasant,
but also a nephew of the Emperor Justin I
who educated him In 527 he became emperor. and he reigned for nearly 40 years at Con stantinople His reign was marked by the victories of Bellsarius and Narses over the Porsians, Vandals and Ostrogoths, the result being that a great area in Europe. Africa and Asia lost under previous emperors was recovered The emperor died Nov 14, 565 His wife was the Empress Theodora

Justinian is chiefly remembered, however for the codification of Roman law which he organised This consists, not only of the code, but of a Digest or Pandect and the Institutes or explanations of the law Its influence on the development of the legal systems of Europe

can hardly be exaggerated

Justinian II was emperor from 685 to 695 and again from 705 to 711 During the intervening 10 years he was an exile, the result of a In 711 there was another rising revolution

and he was beheaded

Justin Martyr Christian Samaria about a D 100, of Greek parentage, he spont nuch time in the study of philosophy He became a Christian and wrote an Apologia of the Christian faith which was followed by a second one According to tradition he was martyred about 165

Cordage and textile fibre obtained Tute genus Corchorus This grows to a height of 10 to 15 ft in parts of Last Bengal Orissa and Bihar The fibre consists of the hard bast between the wood and cortex and is separated by steeping the stems in water for a time

Jute fibre is weaker than flax or hemp, but naving a silky lustre tine texture and good spinning power, it is used for cheap tapestries and carpets, also bags, packing canvas, cordage, etc The chief centres of the jute industry are Calcutta and Dundee, where there are large jute milis

Their country of Teutonic tribe Jutes origin is obscure, but it may have been Jutland Invading England in the 5th century, they settled in Kent and the Isle of Wight and probably parts of Hampshire They are mentioned by Bede

Jutland Mainland province of Denmark It forms a peninsula and has a very broken constline Aarnus is the largest town and the Guden the longest river an agricultural erca. The original home of the Jutes it was made part of Denmark in the 10th century

Jutland Battle of Naval battle fought May 31 and June 1 1916 between the Billish and the German fleets On May 30 the Pritish fleet heating the Germans vero coming out of their harbourput to ea. Sir D. Beatty with a force of s'x battle cruisers and four battleships in support put out from Rosyth and Sir John Jellicoe with 28 battleships and three battle cruisers from Scapa Ilow Lach was attended by destroyers submannes and other auxiliary

On the afternoon of the 31st the British battle cruisers met the German battle crui ers both being in advance of the main fleets

There was a sharp encounter in which two British battle cruisers, Indefatigable and Queen Mary, were destroyed Tiger and Lion were badly damaged, as were the Lutzon and two other German ships Towards 5 o'clook Beatty, hearing of the advance of the main German fleet, turned to draw the enemy on to the British fleet, which was steaming towards him The main fleets came into touch about 6 o'clock, but the great ships were never seriously engaged and only one of them, Marlborough, was hit. There was fighting among the smaller ones in which the British suffered further losses Incincible, a battle cruiser, was blown up and a cruiser squadron was badly damaged, up and a cruiser squadron was badly damaged, Defence being sunk Some of the German ships were battered, but they were for one reason or other, much more difficult to sink At the approach of dark the British battle ships drew off and prepared to renew the attack on the following day There were torpede attacks during the night but when morning came it was found that the German fleet had escaped and was within the shelter of its minefields

TUXON

of its minefields
The result of the battle however, was not satisfactory from the British point of view With a much stronger force, 149 ships against 110 including 28 dreadnought battleships against 10 the losses of the British were heavier than those of the Germans

Juvenal Roman satirist Little is known of his life, except that he was born about AD 60 served in the arms and visited Britain and Egypt He died in 140

Juvenal is noted for his Salires, perhaps the most famous of their kind Sixteen of them are extant. They paint in vivid colours the manners and morals of Rome in his time but the picture of wickedness is now considered to They contain many be greatly exaggerated familiar quotations, have been imitated by Johnson and Dryden and many English translations have been made

Juvenile Courts Separate children s the Children Act of 1908 They were established, for the hearing of charges against juveniles, such courts to sit in a different room or at a different time from that of the ordinary courts The probation system figures prominently and beneficently in the work of these courts also detention for varying periods 'approved schools

Juvenile Offender In English law son, ie, under the age of 16 who has been arrested on some charge By the Children's Act, 1908, such young people must be dealt with in such a way that there is no risk of their contamination by contact with adult criminals This is done by their trial in special courts for children and by their detention, if necessary, in Borstal institutions No juvenile offender can be sentenced to penal servitude

Juxon William Figlish prelate Born at Chichester in 1582 he was educated at the Merchant Taylors' School, London and Oxford He became a clergyman and in 1621 was made president of his college, S John's In 1627 he was chosen Dean of Worcester and in 1633 Bishop of London From 1635 to 1641 he was Lord Treasurer and during the Civil War, he was one of the most trusted advisers of Charles I He attended the king at his trial and was with him to the end on the scaffold In 1660 he was made Arch bishop of Canterbury and died June 4, 1663

AABA Sacred shrine in the AABA great mosquo at Mecca It is an irregular masonry cube, 38 ft high, containing an oval stone, 6-7 in across, of suggested meteoric origin Venerated in Arabia before the time of Mahomet, the property of the pro

Kabbalah Sce Cabbala

Kabul Capital of Afghanistan It stands in a fertile district on the Kabul River, and has a caravan trade in carpets, silks and cottons Here is an old fort and its modern buildings include several colleges modern buildings include soveral colleges Once the capital of the ancient Mogul empire, Timur made it the Afghan capital in 1774. It was taken by British troops in 1831, and was again occupied by them in 1842 and 1879. Pop 70,000.

The Kabul River, which joins the Indus at Attock, is 270 m long. Kaffir. Name adopted by Dutch and British settlers for African negroid peoples. It denotes more directly the Xosa, Pondo and Tombu tribes, who constitute, with the Zulus, the Zulu-Kaffir division of the S. Bantu peoples.

S Bantu peoples
The Katllrs are formidable warriors between

whom and the white settlers there have been many struggles Following a war in 1809 many struggles there was almost constant trouble during the next 70 years, breaking out into serious wars in 1834, 1836, 1850 53, 1858 and finally in 1834 1877 78

To day the Kaffirs form a considerable element in the population of S Africa, and are largely employed on the land, in the gold mines and in miscellaneous occupations. The word is an Arabic word meaning unboliever

Kaffir Bread Native It is from the spongy pith of the stems farinaceous It is derived s of a S This tree,

African cycad, Encephatarios cujus which is sometimes grown for ornament, which is sometimes grown for ornament, often reaches 20 ft in height

Kaffraria District of the Cape Province, S. Africa It is the coastal region between the Great Kei River and the border of Natal British Kaffraria, Great Kei and and the border of Natal British Kaffraria, farther south between the Great Kei and Kelskamma rivers, was at one time a separate province, but was included in Cape Colony in

Kailyard School Name given to writers of senti mental fletion about humble Scottish life The term was originally applied by J H Millar in reference to the song "Thore groves a bonny briarbush in our kailvard" S R Crockett, Ian Maclaren (John Watson), and Sir James Barrio have been included in this category

Kaisariyeh City of Turkey, also called Kayseri, or Cae

Herod the Great, it was once a magnificent city and scaport, being for a time the capital of the country Here S Paul was in prison for two vears

Kaiser Title of the Holy Roman emperors and, until 1918, of the rulers of Austria and Germany It was first used in 800 for the Emperor Charlemagne, and after the dissolution of the Empire in 1806, was retained by the Emperor of Austria In 1871 the King of Prussia also took the title, which was held by the two succeeding German emperors The word means Caesar, and the feminine is Kaiserin

Kaka New Zealand parrot (Nester meridionalis) Rather smaller than its cousin the kea, it is olive-brown in colour It feeds on insects, besides extracting nectar

It feeds on insects, besides extracting nectar from flowers The eggs are laid in tree hollows It is sociable and can be tamed as a pet

Kakapo Bird of the parrot family Also known as tarapo, or owl parrot, it is a native known as tarapo, or own parrot, it is a native of New Zealand, and is green, yellow and brown in colour. It nests in burrows, spends the day in holes in the ground, and seeks its food at night. The wings are not well adapted for flight, the birds usually moving on foot and in flocks.

Kalahari Desert of SW Africa It of the Orange River, and covers some Impassable both in the dry 120,000 sq m and the rainy season, it is in places covered with vegetation. It is full of same and contains large deposits of salt. The few inhabitants are Bushmen who live by hunting

Kalat Native state of Baluchistan It is ruled by a khan, advised by a British political agent at Kalat, the capital Its boundaries are Persia, India and the Arabian Sea The land is mountainous, but Arabian Sea The land is mountainous, but much of it is very fertile Area, 73,278 sq m Pop chiefly Mohammedan, 328,000

Optical Kaleidoscope showing symmetrical forms produced by a combination of reflecting surfaces. In its simplest form it consists of a tube containing two mirrors inclined to each other at 60°, with an eye piece at one end, and at the other a glass cell containing pieces of coloured glass. These, by rotation of the tube and repeated reflection, give various symmetrical patterns

Kalgoorlie Town of W Australia mining area, it is a modern town and a railway junction on the Transcontinental Riy It is 80 in. to the east of Perth Pop (1931) 5722

Kalmuk Western branch of the Mongol stock The Kalmuks, or Kalmyks, form an autonomous area in the union of the Soviet republics, the capital being Astrakhan

Kamchatka Peninsula of Siberia lies between the Sen sarea A road centre on a tributary of the Kizil Irmak, it manufactures rugs and carpets It is the seat of Roman Catholic, Greek and Armenian bishops Pop 39,134

A village of Palestine, alternatively called Caesarea, is known by this name Built by of Okhotsk and the Bering Sea, and it has been a Russian possession since 1706 The severo

peak in the British Empire (25,447 ft )

Kamloops City of British Columbia, Canada At the junction of the N and S Thompson Rivers, it is 250 m from Vancouver It is a junction on the CPR and the centre of a mining and ranching district It has railway workshops and lumber mills Pop (1931) 6167

World's Kanchenjunga highest mountain third Situated in the Himalayas near the boundaries of Nepal and Sikkim, it is 75 m from Everest Its chief peaks, 28,150 ft and 27,800 ft high, can be seen from Darjeeling In 1930 an international expedition ascended the moun tain, but was compelled by the weather to return when it had reached a height of 24 400 five treasure houses of the great snows"

Kandahar City of Afghanistan It lies in a plain between the rivers Argand and Tarnak 300 m from Kabul and commands a pass into India The city is a trading centre and owing to its position is an important fortress, surrounded by walls and having a citadel It was occupied by the British in 1839 and 1879 Pop 60,000

Kandersteg Tourist resort in Switzer land It is in the Ber nese Oberland and stands nearly 4000 ft high

Kandy Town of Coylon Situated high months of the interior, it is 75 m by railway from Colombo, and is noted for its tomples, especially the famous Buddhist Temple of the Tooth and its royal tombs It was once the capital of the native kingdom of Kandy and was annexed by Britain in 1815 Pop (1931) 36,541

Kangaroo Family of pouched mammals indigenous to Australasia and New Guinea The great grey Langaroo (Macropus giganteus) has a small head and large cars, with massive hindquarters and long legs It measures about 5 ft in length and can leap 30 ft It is horbivorous and lives in herds The female rears one young at a time in a pouch form the embryos store until time in a pouch from the embryo stage until strong enough for independent life There are also brush, rock, tree and rat kangaroos The hide is valuable for leather, and the flesh especially the tail, is eaten

Kano City of N Nigeria The capital of Kano it is an important trading centre, being the terminus of a rallway from Lagos and for caravans across the Sahara Hides and ground nuts are produced and leather, ellk, and cotton goods manufactured

Kansas Central state of the United Kara States A prairie state, it is founder watered by the Kansas and Arkansas rivers the Missouri forms its N E frontier Despite 1817)

Kansas City It stands at the junction | Karakoram Asia Extending for over the Kansas and Missouri rivers, opposite | Karakoram Asia Extending for over

United Provinces, being the highest mountain Kansas City in Missouri The largest city in a northern branch of the Himalayas called in the state, and after Chicago, America's the Zaskar range It is the second highest chief livestock centre, it is well served by rallways and has some fine parks It has slaughtering and meat packing establishments, flour mills, machine and railway workshops, grain elevators and factories for soap and candles Pop (1930) 121,857

Kansas City An important railway junction on the Missouri River, it is opposite Kansas City in Kansas, with which it is connected by railway and other bridges An important distributing centre, its industries are chiefly concerned with meat packing, grain, livestock and milling and the manu facture of clothing, confectionery and agricultural implements Pop (1930) 399 746 cultural implements Pop (1930) 399 746

German Immanuel Kant Born in Königsberg April 22, 1724, he was the son of a saddler Scottish descent has been claimed for him He studied at the University in Konigsberg and became a tutor in a private family In 1755 he was appointed lecturer in the university becoming in 1770 Professor of Philosophy In 1797 he

in 1770 Professor of Philosophy In 1797 he retired and died Feb 12 1804
Kant ranks as one of the most influential of modern philosophers His teaching is contained in three books which have been translated into English as The Critique of Pure Reason, The Critique of Practical Reason and The Critique of Judgment He examines the nature of reason which exists, independent the experience. His conclusions are that there of experience. His conclusions are that there are three essential ideas—the soul as a thinking substance, the world as the totality of all phenomena and God as the absolute, perfect being—These ideas exist however only in the mind—His position is midway be tween that of the materialists and that of the dealight though replace to the letter. Idealists, though perhaps nearer to the latter than the former

than the former Kapok Tall evergreen tree of the family Bombaceae and found in the W Indies It has a prickly stem and its leaves are divided into five or more lance shaped leaflets Its yellow flowers have an external coating of silky wool, and the woody capsules are filled with silky hairs attached to the seeds These filaments are used as the seeds These filaments are seeds. stuffing for pillows and cushions, and especi ally lifebelts for which the fibre is particularly suitable An oil is expressed from the seeds

Karachi City and scaport of Bombay, India. It was founded in 1843 at the western end of the delta of the Indus It was for a time the capital of Sind The city has a fine harbour and a large export trade in wheat It is connected by railway with the Punjab and is an important air station Pop (1931) 263,565

Karageorgevitch of lugo lavia Its was a Scrbian peasant, (Black George) Petrovitch peasant, watered by the Kansas and Arkansas rivers the Missouri forms its N E frontier Despite 1817) Leading his countrymen against the a scarcity of rain in the west it is a rich agri cultural state producing maize wheat and not be succeeded in throwing off the cultural state producing maize wheat and Turkish yoke, and was proclaimed ruler of hay Many minerals are worked Topeka Serbia, which however, again foll into Turkish is the capital but Kansas City is the largest than In 1842 the crown was accepted by two houses It sends two senators and seven in 1858. His son, Peter became king in 1903, and after the Great War was made King of Yuroslavia. He was succeeded by his second

400 m across NE Kashmir, it connects the Himalayas with the Hindu Kush In it is Godwin-Austen, 23,250 ft, the second highest mountain in the world Several high but easy passes cross the range In 1929 part of the range was explored by an Italian

Karakoram is also the name of an ancient Mongolian city This was founded by Jenghiz Khan and was at one time the capital of the Its site was discovered in 1889

Karelia Republic of Soviet Russia It lies to the E of Finland and covers about 52,000 sq m, lying between Lake Ladoga and the White Sca Petrosavodsk is the capital Pop 267,500

Karlsbad Health resort of Czecho-slovakia, formaly in Austria. It is now known by its Czech name of Karlovy Vary It lies on the River Tepla, at a high about 70 m NW of Prague Its warm mineral springs which have been famous since the 14th century, attract a large number of visitors The buildings include pump rooms and concert halls, and there are gardens and other attractions. There are gardens and kaolin being found in the neighbourhood Pop (1930) 24,029

Karlsrune Capital of Baden, Germany It is about 6 m from the Rhine and 39 m from Stuttgart It is a railway centre and is connected by canal with its port Maxau on the Rhine The industries include railway engineering, furniture, jewellery, plated goods, gloves and brewing Pop 145,700

Karma Sanskrit noun meaning a deed or Karma action When applied to the action of a living human being, it is the doctrine that every action, good or bad, receives its reward or punishment Thus it is bound up with the theory of transmigration, apparently undeserved reward or punishment having been caused by the karma of a previous life The doctrine is found in the Jain and Buddhist religious religions

Karnak Village in Upper Egypt. Situated near the right bank of the Nile, near the modern village of Luxor, it contains some of the most famous ruins in the world The chief is the great Temple of Amen-Ra, 1200 ft. long The world's largest temple, it was begun by Senusert I, 12th dynasty, and was enlarged intermittently down to Ptolemate times It contains an incomparable hypostyle hall, with numerous scenic reliefs Other monuments include two obelisks and hypostyle hall, with numerous scenic reliefs Other monuments include two obelisks and vast pylons approached by avenues of sculptured rams

Károlyi Michael Adam George Niklaus, Count Hungarian politician Born at Budapest, March 4, 1875, he entered Parliament in 1905, and in 1912 changed from Liberal to Radical views After the outbreak of war in 1914, he tried to conclude a separate peace with the Allies After the Hungarian revolution of 1918, Károlyi was made Prime Ministor, and President in 1919 Unsuccessful in his peace treaty, he had to hand over the government to the Soviet of Bela Kun, and left Hungary for Crechoslovakia. He was found guilty of high treason and felony, and his estates confiscated Karolyi Michael Adam George Niklaus, his estates confiscated

Karri Australian tree (Eucalyptus diversi-color) One of the gum trees, it grows to an enormous size in the forests of W. Australia On account of its hardness

the wood is much used for paving blocks and similar purposes

Karroo Name given to a practical to the Cape Province in S Africa. It varies in height from 2000 to 4000 ft above sea level It is semi-arid in character and affords abundant food for plateau but is healthy, and affords abundant food for sheep, both from the pasturage in the short wet season and the succulent shrubs of the dry period

Kashgar City near the western border of Chinese Turkestan The centre of a fertile area where grain, cotton, centre of a fercile area where grain, course, fruit, etc., are grown under irrigation, it is surrounded by barren mountainous country through which passes give access to India to the south and to areas north and west. The Zyzyl River runs through the city which, besides its trade, produces leather work, rough cotton and woollen cloth and has primitive oil refining Pop 80 000

Kashmir Native state of India It jab and its borders also touch Afghanistan and China A mountainous area covering 84,258 sq m, it is traversed by the Himalayas and the Karakoram range, between which lies the fertile valley of the Indus, other important rivers being the Jhelum and the Chenab The capital is Srinagar, Jammu being the next most important place. The people are chiefly Mohammedans, but the ruler, the Manarajah, is a Hindu Agriculture is the chief industry and much of the land is forest

In the Middle Ages, Kashmir under its own rulers, one of whom was Asola, was a flourishing state In 1581 it was made part of the Mogul empire, and later it was ruled by the Afghans and the Sikhs In 1846 it came under British protection In 1931 there was serious unrest in the state, British troops being sent to restore order Pop (1931) 3,330,518

Kassassin Town of Lower Egypt On the Suez Canal, it is 22 m from Ismailia Here, on Aug 8 and Sept 9, 1882, there were fights between the British forces and the Egyptians under Arabi Pasha

Kassel Town of Prussia, Germany, the capital of the province of Hesse Nassau It is on the Fulda, 90 m from Frankfort on-Main There is a picture gallery must be capital as a picture gallery must be with some notable paintings, several mus eums and a library with a fine collection of books and manuscripts One of the museums books and manuscripts — One of the museums built in the 20th century, contains antiquities found nearby Kassel has railway workshops, engineering works and manufactures of paper, etc. Pop. 171,700

Katabolism Term used in biology for the physical and chemical changes in the living body resulting the breaking days of the tissues into

in the breaking down of the tissues into simpler substances It is the opposite of anabolism, and these two processes are more or less balanced during normal life

Katrine Lake of Scotland Mainly in Perthshire, it extends to Stirling shire, and is drained by the Achray and Black Avon, providing Glasgow with much water It covers about 5 sq m, and is famed for its beautiful scenery

Kattegat Arm of the sea between Denmark and Sweden It connects with the North Sea through the Skagerak and with the Baltic by means of three channels, called the Sound, the Great

730

Belt and the Little Belt, which are divided from one another by islands. It is about 150 m long. Shoals and sandbanks make navigation difficult

Katydid Name used for certain grass hoppers found in N America Ther make a noise by stridulation which sounds like the words "Katy did"

Kauffer Edward M'Knight. American Great Falls, Montana, in 1890, after an event ful life in America he began work at the Art Institute, Chicago, and then worked in Munich and Paris and settled in London. He became and Paris and settled in London He became expert at poster designing, and his boldness of design and keen sense of colour are found in the series of London's Underground Railway posters His woodcut "Flight" (1922) is famous and he has edited The Art of the Poster (1924)

Poster (1924)

Kauffman Angelica Swiss artist She was born Oct. 30, 1741, in Switzerland She studied art in Italy, and in 1766 settled in England where she became known as a portrait and decorative painter in 1768 she was cleeted one of the original members of the Royal Academy With Revnolds and others she was chosen to decorate S Pauls Cathedral, London but in 1781 after her marriage with Antonio Zucchi a Venetian painter she left England for Italy She died in Rome, Nov 5, 1807 Some of her work is seen in the large houses of that time of that time

Kauri Pine New Zealand tree It reaches a height of 100 ft, with a straight trunk up to 10 ft in diameter, but large specimens greatly exceed these dimensions it gives excellent timber lasting and readily worked Fossil gum, dug from old forest sites, is used for varnish making

Kavalla Town of Greece It lies on the gulf of the same name, opposite Thases Island it has a good harbour opposite Thases island it has a good harbour and trades in tobacco Bulgaria claimed Kavalia in 1913 thus bringing about the second Balkan War but it was retained by Greece at the peace of that year During the Greet War it was occupied by the Bulgarians and in Aug 1916 was bombarded by British warships It was given back to Greece in 1918 Pop 50 000

Kayak Eskimo canoe usually accom sists of a wooden frame about 18 ft long and 2 ft wide, covered with skins which are arranged on the top so as to keep out water

More modern boats are now common in

Kaye-Smith Shella English nove of The daughter of Edward Kaye Smith, a doctor at St Leonards she passed her early days in Sussex and soon wined a very intimate knowledge of the people grained a very intimate knowledge of the people three In 1908 she published her first novel The Trarping Methodist This was a success and others followed dealing in the main with Success life They include Starbrace, Sussex Girec Tameral Town, Green Apple Harrest The End of the House of Alard Saints in Success Iron and Smole The Village Poctor Shepherds in Sackeloth and Susan Spray in private life Miss Kaye Smith is the wife of Mry J P 177

Kazakstan Republic of Soviet Russin and covers some 1,825,000 sq m, Kzyl

Orda being the capital It dates from 1924 Pop 6,500,000

Kazan Capital of the Tartar autonomous republic of Soviet Russia. It stands

n the Kazan Ra a tributary of the Volga It is an industrial town, manufacturing soap candles, leather chemicals, etc., and is on the trade routes to the East. It has a university Pop 202,000

Kea blue It is 17 in long and has dull black edged, ollve green plumage It frequents the mountains of South Island Its partiality for the fat of the sheep leads it to particularly for the fat of the sheep leads it to attack the living animals, sometimes causing scrious loss to farmers It also feeds on the dead sheep Its food at other times is fruit, seeds, insects and grubs seeds, insects and grubs

seeds, insects and grubs

Kean Edmund English actor Born
in London, March 17, 1787, he
earned a precarious living as a boy, at fairs
and circuses in 1814 he appeared on the
London stage, where, at Drury Lane Theatre,
his Shylock made him famous With equal
success he played other Shakespearean parts
among them King Loar, Othello, Hamlet and
Macbeth He won successes also in plays by
Massinger, Sheridan and other dramatists,
and was probably the greatest tragic actor of
his day Twice he visited the United States
where he had a great reception In his later
days he became very poor, owing largely to
his extravagance, but he continued to play
until his death at Richmond, March 25,
1833

Other members of his family won renown on the stage Kean's wife was an actross and their second son Charles John Kean, followed the same profession

Kearsley Urban district of Lancashire LMS Rly There are collieries in the neighbourhood and paper, cotton and bricks are manufactured Pop (1931), 9736

Keate John English schoolmaster Born in 1778, he was educated at Eton and King's College, Cambridge In 1797 he became a master at Eton and was appointed headmaster in 1809 under him many salu tary reforms were introduced into the school He is best known, however, for the frequent and severe floggings which he administered to the boys In 1834 he resigned Since 1820 he had been a canon of Windsor, and he held also a living in Hampshire until his death March 5, 1852

also a living in March 5, 1852 first volume of poems in 1817 he published his first volume of poems in 1818 Endymion appeared and in 1820 Hyperion and other Process Before this time his health had begun to fail hever very strong he was undoubtedly affected by the savage criticisms meted affected by the savage criticisms meted out in the reviews, to his work by the death of his brother, Thomas and by his unrequited love for Fanny Brawne In 1820 he left England for Italy but soon after reaching Rome he died, Feb 23 1821 He was buried in the Protestant cemetery there

The longer poems of Keats include Myperion Endymion, the unfinished Lamia The Poi of Basil and The Ere of St Agnes His gonius

however, is best revealed in the shorter ones, notably such unique pieces as the odes To a Nightingale and To Autumn the sonnet on First Looking into Chapman's Homer and the Lines on a Greenan Urn With these may be mentioned the ballad La Belle Dame sans

Much has been written about Keats, whose circle of friends included Shelley and Hazlitt As a poet he occupies a very high place, one which becomes more secure as the years pass He is above all the poet of beauty. He was no scholar, but more than any other English poet he caught the Greek spirit which he understood and interpreted with unparalleled fidelity. Later poets owe much to his influence

The house in Keat's Grove at Hampstead known as Lawn Bank, in which Keats lived from 1817 to 1820, is now a museum dedicated to him The centenary of his death was

celebrated in 1931

Keble John English poet and William Keble Born at Fairford, April 25, 1792, he was the son of a clergyman He went to Corpus Christi College, Oxford, and became a fellow of Oriel College In 1815 he was or-dained, and became a curate in a Gloucesterdained, and became a curate in a Gloucestershire village, but he retained his connection
with Oxford, where from 1831 to 1841 he was
Professor of Poetry In 1835 he married and
became vicar of Hursley near Winchester
He died at Bournemouth, March 29, 1866,
and was buried at Hursley
Keble has two claims to fame He wrote
The Christian Year vhich contains some
very popular hymns including "Sun of my
Soul," and he was one of the founders of the
Oxford Movement, which is usually dated
from a sermon preached by him at Oxford
in 1833 He had a good deal to do with
Tracts for the Times
Keble College, in Parks Road at Oxford, was

kedgeree

Keble College, in Parks Road at Oxford, was founded in his memory in 1870 The chapel, in which hangs Holman Hunt's "Light of the World' is notable

Kedge Small anchor with an iron stock Its uses are to steady a ship when riding in harbour or river to keep her clear of her bower-anchor when the tide turns, and, cast from a small boat, to enable her to move by warping

Kedgeree Mixture of rice and fish, augmented by hard-holled eggs, melted butter or white sauce In India. spice and shredded onion cooked with butter and the dholl pea are compounded as

Kedleston Village of Derbyshire It Kedleston is situated 4 m from Derby, and is notable for its connection with the Curzon family, who have lived here since the 11th century Kedleston Hall, the seat of Viscount Scarsdale, is a fine mansion in the classic style designed by Robert Adam

Keeley Mary Ann English actress
Born at Ipswich in 1806, she
acted under her malden name of Goward
before, in 1829, she married Robert Keeley
(1793 1869) Both she and her husband were popular comedians, and she acted in Shakespeares plays, also in plays adapted from some of Charles Dickens novels From 1844-47, the pair were managers of the Lyceum Theatre, London She died March 12, 1899, at Brompton

Keeling Islands Another name for the Keeling Islands (77)

Keene Charles Samuel English artist Born in London Aug 10, 1823,

he was educated at Ipswich After a spell in the office of his father who was a solicitor, he was apprenticed to a wood engraver In 1851 he started to work for Punch becoming a regular member of the staff in 1860 and it is for the excellence of his drawings in that journal that he is chiefly known, although he also illustrated several books He died Jan 4, 1891

Keep architectural term for the donjon castle It formed the hving quarters and was the last refuge for the garrison in war time The Norman keep was usually of the square type as seen in the White Tower of the Tower of London, but round and polygonal keeps were also common The keep at Rochester is a fine example he was educated at Ipswich After a spell in

is a fine example

is a fine example

Keewatin With a station on the CP Rly, it is 130 m from Winnipeg, on Lake of the Woods, and is visited for its fishing and shooting. Here is a large plant for generating electricity. Pop 1300

Keewatin was formerly a district of Canada. It had an area of 228,160 sq. m., and reached from the Arctic to Manitoba and Ontario, E of Hudson Bay. In 1905 it was included in the N.W. Territories, and in 1912 parts of it were given to Manitoba and Ontario.

Keighley Borough and market town of Yorkshire (WR) It is 9 m from Bradford and 205 from London It stands at the confluence of the rivers Aire and Worth, and is served by the LMS and LNE The industries include the manufacture of woollen and worsted goods textile machinery and sewing machines Pop (1931) 40,440

Keith Burgh and market town of Banffon the east bank of the River Isla, with
Fife-Keith on the west They are united by two
bridges The town is served by the L MS
and L N E Rivs. It has cattle, horse and sheep fairs, and the industries include brewing and distilling Near are some curious stone circles and the ruins of Milton Tower Pop

Keith Name of a famous Scottish family, members of which were Earls Marischal for some centuries before 1716 Marischal for some centuries before 1716
Among its noted members was the soldier
Francis James Edward Keith, a vounger son
of the 9th Earl Marischal He fought for the
Jacobites in 1715 and 1719, and afterwards
served in the Spanish, Russian and Prassan
armies He was one of the most trusted
generals of Frederick the Great, who made
him a Field Marshal He was killed in battle,
Oct 14, 1758
A sailor, George Keith Elphinstone, bore the
title of Viscount Keith Born Jan 7, 1746,
he entered the navy and saw a good deal of
service In 1796 he defeated a Dutch fieet
and took Capetown He helped to put down
the mutluy at Spithead in 1797, and served
later against the French in the Mediterranean
In 1797 he was made a baron, and in 1814

In 1797 he was made a baron, and in 1814 Viscount Keith He died March 10, 1823

Keith Born at Aberdeen, Feb 5, 1866, he was educated at the university there and later in London and Leipzig He became a doctor, and from 1899 to 1902 was Secretary of the Anatomical Society He was then made conservator of the Museum, and Hunterian Professor at the Royal College of Surgeons,

London In 1921 he was knighted, and in 1927 became President of the British Associa-tion He has been F.R.S since 1913, and from 1917, 22 was Fullerian Professor at the Royal Institution

Keith made himself a leading authority on anthropology, on which subject he wrote and lectured a great deal His books include The Human Body The Antiquity of Man. Engines of the Human Body and The Religion

of a Darwinian

Kelham Village of Nottinghamshire It Is on the Trent, 2 m from Newark Here is a factory for dealing with sugar beet which is grown in the neighbourhood. The fine hall is a theological college of the Church of England Pop 400

Keller Helen Adams American blind Born June 27, 1880, she lost the senses of sight, hearing and Anna Sullivan smell when 19 months old Anna Sullivan of the Perkins Institute of the Blind taught her to read by the deaf and dumb alphabet, also writing and typewriting In 1890 she learned to speak She graduated with honours at Hadelifie College Cambridge, Mass, and wrote several books including The Story of My Life, 1903, and The World I Live In, 1908 In 1932 she visited Scotland to receive honorary degrees at the universities smell when 19 months old

Christophe François Kellermann Françols Christopho Fronch soldier Born in Alsaco, May 28, 1735, he entered the French Army in 1752 and served in the Seven Years War Later he was given a high command in the republican army, and he was responsible for its initial victory at Valmy in 1792 He served under Napoleon in Italy and Germany In 1803 he was made a marshal, and in 1808 Duke of Valmy He adhered to the Bourbons after the events of 1814 15 and died Sept. 23, 1820

Kellormann s son, François Étienne, rivalled his father as a soldier Born in 1770, he entered the army, and in 1796 97 held a command in Italy He distinguished himself at Marengo and fought in Spain and at Waterloo He died June 2, 1835

Kellogg Frank Billings American dip Potsdam, New York, Dec 22, 1856, he was educated in Minnesota, and admitted to the Bar in 1877 He practised in Rochester and St. Paul and was special counsel in the action to dissolve the Union Pacific and Southern Pacific railway merger Elected to the Senate, 1917 23, in 1924 he became American ambas sador in London, resigning in 1926 to become Sceretary of State in President Coolidge's Government until 1929 Here he won fame as the originator of the Kellogg Pact, or Pact of Paris signed in 1928, a multilatoral treaty for the outlawry of war as an instrument of national policy

Kells Urban district of Co Meath, Irish Free State It is on the Blackwater 10 m from Navan, and has a station on the Gt S Rlys Here the kings of n station on the Gt S Riys Here the kings of Meath had a palace, and here in the 6th century S Columba built a monastery It was the seat of a bishop from 800 to 1300 The remains include S Columba's House a round tower and some crosses Pop 2200

The book of Kells, the finest illuminated manuscript of Irish work extant, was written here in the 8th century It is now in Trinity

College, Dublin.

Kelmscott Press Private printing press founded in 1890 by William Morris Started in the to Sussex House nearby, in 1891 It was named after the village of Kelmscott in printing, and produced many remarkable volumes The wood blocks are now in the British Museum, London

Kelp Name given to the porous ash obtained by burning scawced slowly in shallow pits or special retorts From it is obtained iodine and alkaline salts Formerly this was a large industry in Scotland and Normandy, but has declined owing to the production of iodine from caliche in Chile

Kelpie Scottish water sprite It is said to appear at fords on stormy nights, frequently in the shape of a horse It is malignant and bodes evil

Kelso Burgh and market town of Rox burghshire Situated at the june Kelso burghaline Situated at the june tion of the Teriot and the Tweed, it is 52 m from Edinburgh, and is served by the LNE RIF A fine bridge crosses the Tweed here It is an agricultural centre, with corn and cattle markets, corn mills and a factory for agricultural implements Kelso is famed for its Benedictine abley. its Benedictine abbey, founded in 1128 Of this much of the church remains, and it is national property Pop (1931) 3855

Kelty Town of Fifeshire It is 8 m from Dunfermline, on the LNE Rly It owes its existence to the opening of the coal mines in the 19th century Pop 7800

The River Kelty is a tributary of the Forth, and runs for some distance between Perthshire and Stirlingshire

Kelvin River of Scotland It rises in the Klisyth Hills and flows through Glasgow to the Clyde at Partick Relvinhaugh and Kelvingrove are districts of the city named after it. In Kelvingrove Park are the buildings of the university and the art galleries The river is 21 m long

Baron Scottish scientist Kelvın Kelvin William Thomson was born in Belfast, June 26, 1824, and was educated at the Universities of Glasgow and Cambridge In 1846, after a brilliant career at Cambridge he was made Professor of Natural Philosophy at Glasgow where he remained until 1899 From 1900 to 1904 he was President of the Royal Society In 1892 he was made a baron, and in 1902 he was given the Order of Merit He died Dec 17, 1907, when his title became

As a physicist Thomson was one of the greatest of his time. He studied thermo dynamics and then electricity and magnetism, and the results of his work were of the highest importance to industry They helped to make possible the electric cable and he was respon possible the electric cause and he was responsible for many of the inventions that have extended the general use of electricity. His paper On Vortex Atoms and his lectures on molecular dynamics and the wave theory of light contain the results of much of his thought and have exercised considerable influence on students of a later day

Kemal Pasha, Ghazi Mustapha Turkish politician Born in 1880 at Salonika he became a soldier In 1915 he commanded the Turkish armies on the Gallipoli peninsula and afterwards made himself a very formidable

At the head of a figure in public affairs group of nationalists he set up a government at Angora which, in 1922, was strong enough to abolish the office of sultan At the head of o aboust the onice of suitan. At the head of affairs, Mustapha Kemal won a signal diplomatic victory when the Treaty of Lausanne, in 1923, restored to Turkey much of the territory she had lost. In the same year Kemal was chosen president of the republic, which, under his strong rule, made great progress He was still president in 1936.

Kemalists Turkish nationalists, followers of Mustapha Kemal Pasha In 1920 the Kemalists set up a national assembly at Angora (now Ankara) which was responsible for the abolition of the sultanate and the caliphate, and the establishment of the republic in 1923 See TURKEY

Kemble charles English actor Son Roger Kemble and brother of Sarah Siddons, he was born Nov 25, 1775, and educated at Doual His first stage appearance was at Sheffield in 1793 He subse-He subsequently appeared mainly in comedy in London, appeared successfully mainly in comedy He was joint proprietor of Covent Garden Theatre and later an examiner of plays He died Nov 12, 1854 Kemble left two daughters The elder,

Kemble left two unughteds Frances Anne, or Fanny (1809-93), was long a successful actress Afterwards she made herself famous by her readings from Shakespeare She wrote some plays and volumes of memoirs and died Jan 15, 1893 The younger daughter, Adelaide (1814-79), became famous as an opera singer She died Aug 4, 1879

Kemble John Philip English actor Born at Prescot, Feb 1, 1757, a brother of Charles Kemble and Mrs Siddons Educated for the priesthood, he preferred the stage instead and made his first appearance at Wolverhampton in 1776 In 1783 he came to London, where he achieved creat popularity as a transfer of the control of great popularity as a tragedian, especially in Shakespearean characters He was manager of Drury Lane Theatre, 1788 96, and of Covent Garden, 1803-17 He died Feb 26, 1823, at Lausanne

Kempis Thomas a. German writer He was born about 1379 at Kempen near Dusseldori He was educated at Deventer and about 1400 entered an Augustinian monastery near Zwolle, becoming a monk, and living there until his death in 1471 He rose

to be prior

He made a complete copy of the Bible, and
he made a complete copy of the Bible, and wrote histories, biographies, sermons, hymns, etc. He wrote also several books of devotion, one of which stands out as perhaps the greatest of its kind, The Imitation of Christ It has been translated into many languages, and over 3000 editions have appeared It was first printed at Augsburg in 1471 or 1472 In Brussels there is a copy written by Kempis himself, while in 1879 a facsimile edition was printed in London

Kempston Urban district of Bedford-shire It is on the Ouse, 2 m from Bedford Roman and Saxon remains have been discovered here Pop (1931), 5390

Kempton Park District of Middle-Sunbury, and is known for its racecourse In the Middle Ages there was a palace here from which Henry VIII used to hunt.

Kemp-Welch Lucy Elizabeth Born at Bournemouth in 1869, she studied at the

Herkomer School of Art, Bushey, Herts, and exhibited at the Royal Academy in 1894

Amouted at the Royal Academy in 1894

Her paintings of animals, especially of horses, show fine draughtsmanship, a strong sense of colour and good composition Among her best works are "Colt Hunting in the New Forest" in the Tate Gallery, London, "Summer Drought", "Horses Bathing in the Sea", "Lord Dundonald's Dash on Ladysmith", and "The Harvesters"

Kemsing Village of Kent It is 3 m from Sevenoaks with a station on the S Rly It is notable as the birthplace of S Edith An image of the saint which on the S Rly of S Edith stood in the churchyard was visited by thousands who believed it had miraculous power

Ken Thomas English bishop Born in Was educated at Winchester and Oxford He held livings in Essex, Hampshire and the Isle of Wight before 1679, when he went to the Netherlands as chaplain to the wife of William of Orange In 1680 he returned to England and served as chaplain to Charles II, and held a cierical position in Winchester In 1084 he was made Bishop of Bath and Wells and he was one of the seven bishops who refused to read the Declaration of Indulgence and were therefore tried and acquitted He refused to take the oath of allegiance to William and Mary in 1689, thus becoming a at Longleat, March 19, 1711 Ken is best known as the author of two popular hymns "Awake my Soul" and "Glory to Thee"

Kenchester Village of Herefordshire It is 5 m from Hereford and is the site of the Roman town of Castra Much of it was excavated, 1912-13, and Magna

Magna Much of it was excavated, 1912-13, and interesting relies were found Pop 100

Kendal Market town of Westmorland, in full Kirkby-in-Kendal, on the River Kent, and the LMS Rly, 21 m from Lancaster Here are ruins of a castle Horse and cattle fairs are held and woollen goods are made, this industry having been introduced by the Flemings in the 14th century Pop (1931), 15,575

Margaret. English act-Born at Cleethorpes, Dame Margaret. Kendal ress March 15, 1849, she first appeared in London in 1865, under her malden name of Margaret (Madge) Robertson She won her createst She won her greatest al parts In 1869 she (Madge) Robertson Sne won her greatest successes in emotional parts. In 1869 she married the actor W H Grimston (1843-1917), who took the name of Kendal With Sir John Hare he was manager of the St James's Theatre, 1879-88 Mrs Kendal retired in 1907 and in 1926 was made a dark (DBE) An Autobiography appeared in 1933 or 14th Sept, 1935

Kenilworth Urban district of War-Kenniworun wickshire It is 4 m from Warwick, on the LMS Rly It is chiefly famous for its castle, now in ruins This was added to throughout the centuries, restable by Simon de Monttont Henry III. This was added to infroughout the centuries, notably by Simon de Montfort, Henry III who took it in 1266, John of Gaunt, Henry VIII and the Earl of Leicester, to whom it was given by Elizabeth It was destroyed during the Commonwealth The castle was one of the largest and most important in England. The town has a trade in agriculture of the largest and most important in the town has a trade in agriculture. one of the largest and most important in England The town has a trade in agricultural produce Pop (1931), 7592
One of Scott's finest novels, Kenilvorth, describes the visit of Elizabeth to the Earl of Leicester in 1575, when she was entertained with great magnificence

Kenley District of Surroy Kenley District of Surrey It is 17 m from London, on the S Rly The fine common is the property of the city corporation.

Kenmare Market town of Kerry, Irish | Kenmare Free State It stands on the river of the same name and is reached by the GS Rlys, and by canal It is a popular tourist centre, the attractions including fish Near are ing and some wonderful scenery. Near are Dorreen a seat of the Marquess of Lansdowne and Dunkerran Castle Pop 880

and Dunkerran Castle Pop 880
Kenmare River, really an estuary, 28 m long and reaching 6 m wide, separates the counties of Cork and Kerry
The Irish title of the Earl of Kenmare has been borne since 1801 by the family of Browne The carl's eldest son is called Vis count Castlerosse The son of the 5th earl, Viscount Castlerosse, made a reputation as a journalist on The Daily Express

Kennedy Scottish family, the head of which is the Marquess of Ailsa The home of the Kennedys was in Ayrshire and in 1452 Gilbert Kennedy was made a Lord of Parliament A later Lord Kennedy became Marquess of Ailsa (q v )

Kennedy Benjamin Hall English head master Born in Birmingham Nov 6 1804, he was educated at Shrewsbury and S John's College Cambridge Ho and S John's College Cambridge He became a fellow of his college and a clergyman, and in 1830 a master at Harrow In 1836 he and in 1830 a master at Harrow In 1836 he was chosen headmaster of Shrewsbury, and during the next 31 years he made this school famous for its classical scholarship In 1867 he became Reglus Professor of Greek at Cambridge, and he died April 6, 1889 Ken nedy is known for his Latin Grammar Kennedy s brother Charles Rann Kennedy (1808 67), was also a famous classical scholar at Cambridge and a fine lawyer.

at Cambridge and a fine lawyer

Kennedy Margaret English novelist.

A daughter of C M. Kennedy a barrister, she went to Cheltonham College and then to Somerville College, Oxford She stadded history and in 1922 published A Century of Revolutions In 1924 she made a name with a novel The Constant Nymph, which was equally successful on the stage and serven. Her later books include Red Si y at Morning, Come with Me and in 1931 Return I Dare Not. She is the wife of Mr. David Davies

Kennedy Thomas Scottish politician. Socialist and in time was appointed Secretary of the Social Democratic Federation. In 1921 he was elected MP for Kirkenldy and he visit elected in 19.—1924, 1929 and ag un in 1935 In 1921 he was made one of the wnips of the Labour Party in Parliament and in 1924 was a Lord of the Treasury In 1927 he became chief whilp and in 1929 Parliamentary Secretary to the Treasury In Aug, 1931, he resigned and at the general election lost his sent but regained it at the general election of Nov., 1935.

Kennet River of Berkshire It rises in the Downs in Wiltshire and passing Newbury enters the Thames at Reading It is 41 m long The Kennet and Avon Cunal the property of the G.W. Rly councets the river with the Avon at Bath

Park, once known as Kennington Common, was extended in 1931 Here is Kennington Here is Kennington Oval, the headquarters of the Surrey Cricket Club, which, like much of the property around, is on the estate of the Duchy of Cornwall

Kennington Eric Henri English ar-tist. Born in London, March 12, 1888, he studied art there His first important work, "The Costermongers," was exhibited in 1914. It is now in the Luxem bourg, Paris In 1918 he was appointed an official artist on the western front His works include a painting or glass, "The Konsingtons in Action," war memorials in Battersea Park, London and Solssons, and the bronze statue of Thomas Hardy unveiled at Dorchester in ĭ931

Kenora City of Ontario It stands on the Winniper River, near its source in the Lake of the Woods and 132 m from Winnipeg It has a station on the OPR and is a centre of the lumbering in-dustry Pop (1931) 6706

Kensal Green District of London, to the NW of the City It is chiefly famous for its cemeteries, but is also a busy district along the Harrow

Kensington Borough of the county of London Known as the royal borough, it lies to the W of the city The chief buildings include the Victoria rits. The chief buildings include the Victoria and Albert Museum the Natural History Museum, the Imperial Institute the Albert Hall and the fine church of S Mary Abbets. High Street is a popular shopping contre The borough also includes Holland Park, Campden Hill and Brompton with its oratory and parish church near where are Prince s (tub and Harrod's Stores and Earl's Court. The Bishop of Vensington is a sufference of the The Bishop of Kensington is a suffragan of the Bishop of London Pop 180,681

Kensington Gardens is a pleasure resort adjoining Hyde Park. It covers 275 acres and contains the Round Pond and a sunk garden in it are the Albert Memorial and several

statues including one of Peter Pan

Statues including one of Peter Pan
Overlooking the gardens is Kensington
Palace, the birthplace of Queen Victoria
Originally a residence of the Larl of Notting
ham, called Nottingham House, it was bought
by William III in 1889 and largely rebuilt by
Wren Teatures are the gallery the orangery
and the grand staircase at the now divided into residences for various members of the royal family and others connected with the court

Kent One of the Lingdoms of England in Anglo Saxon times It was founded by the Jutes before 500 and had its own kings until about 700, Canterbury being the capital Later it became part of Wesse\ Its most notable king was Ethelbert Its most

Kent County of England Its boundaries and the sea with Surrey and Sussex on its inland borders extent is 1555 sq m and, in the west, it forms part of the Loudon area Maidstone is the county town Canterbury is the esclesiastical capital of England and there is also a bishopric at Rochester Kent is a fortile and in the main a level county in the centre are the Weald and extensive areas where fruit and hops are grown for which the county is famous There are some hills in the west Westerham Hill being about 890 ft. high The chief rivers are the Medway, Darent and Stour in the cast near Doyer a coalfield has been opened and Kennington District of London To the Medway, Darent and Stour In the cast the Medway, Darent and Stour In the cast in the berough of Lambeth Kennington model villages such as Tilmanstone creeted.

Along the estuary of the Thames and on the Medway is a great industrial area, towns therein being Dartford, Erith, Gravesend, Chatham, Roobester and Gillingham Chatham is also a naval station Round the coast are watering places, some being on the so-called islands of Sheppoy and Thanet Among these are Herne Bay, Tankerton, Whitstable, Margate, Broadstairs, Ramsgate, Dover, Folkestone, Deal and Romney Dover and Folkestone are also scaports for Continental traffic Inland towns include Tunbridge Wells, a watering place, Bromley, Sevenoal s. Ashford, Faversham and Sittinghourne, and there are many picturesque in the south is Romney Marsh Knole and Penshurst are famous English homes, Walmer, Hever and Leeds are castles of interest and the county is full of historic spots. It sends 11 a naval station Round the coast are watering county is full of historic spots It sends 11

Originally one of the Anglo Saxon kingdoms, Kent passed under the rule of Wessex about A D 700

Kent is a famous cricketing county, some of the earliest clubs having been founded here and more than once its eleven has won the county championship

Persons born east of the Medway are Men Kent, those born west are Kentish Men

of Kent, those born west are Kentish Men Pop (1931) 1,194,115 A British cruiser called the Kent took part in the Battle of the Falkland Islands in 1914, after which she chased and destroyed the Dresden

Duke of English title There was an Earl of Kent in very early times Kent and in the 13th century the title came to Edmund, a son of Edward I Later it was held by the Holland family and then by the Groys In 1706 Henry Grev, the 12th Earl, was made Marquess of Kent and in 1710 Duke of Kent The titles all became extinct when he died in 1740

In 1799 George III made his fourth son, Edward Augustus, Duke of Kent He was born Nov 2, 1767, and served for a time in the army He married, in 1818, Victoria (1786-1861), widow of the Prince of Leiningen and their only child was Queen Victoria. The Duke died Jan 23, 1820. In 1934 Prince George, 4th son of King George V, was made Duke of Kent See Gronge.

Kentigern Scottish saint. He was born Culross by Saint Servanus A period of hermitage preceded his elevation to the rank of Bishop of Glasgow. He remained there until his death in 603, except for a few years passed in Wales Sometimes called Mungo, or the beloved. Kentigern is the Patron Saint of Glasgow

Kentish Town District of London To the north-west of the city in the borough of St Pancras, it is a densely-populated district The industries include the making of elgarottes, furniture, etc. Here is the North-Western Polytechnic, The industries furniture,

Kent's Cavern Cave near Torquay It is famous for its evidences of Palaeolithic man The cave was evidences of Paiaeolithic man The cave was examined first in 1824, but a more thorough exploration was made from 1868 to 1880 Beneath a bed of stalagmite were found various implements of flint, bone and horn, together with the bones of the mammeth and other animals

Kentucky State of the United States It is an east-central state,

covering 40,598 sq m A level and fertile region, except in the east where are the great Alleghany Mountains. it produces Alleghany blountains, it produces great quantities of wheat, maize, tobacco, etc., and is famed for its horses Frankfort is the capital, but Louisville is the largest city Other populous centres are Covington and Lexington The chief rivers are the Ohio, Mississippi, Big sandy and Cumberland In the state is the Mammoth Cave Kentucky, which has been a state since 1792, sends two senators and 9 representatives to Congress senators and 9 representatives to Congress State government is carried on by a general assembly of two houses Pop (1930) 2,614,589

Ken Wood Estate at Hampstead, now times called Caen Wood, a house stood here in the 17th century or earlier. This became the property of the Duke of Argyll and later of the Earl of Bute. In 1755 the 1st Earl of Manfield bought it and the house was largely rebuilt for him by Robert Adam It remained a seat of the earls for about 150 years In the 20th century it was bought by the Earl of Iveagh, who, in 1927, left to the nation the house and some 70 acres of land The wood proper, previously acquired, was opened in 1925 as a public placement. public pleasure ground

Kenworthy Joseph Montagu. English politician Born March 7, 1886, the eldest son of Baron Strabolgi, he entered the navy in 1902 Having served through the Great War, he retired in 1920 through the Great Var, he retired in 1920 with the rank of lieutonant-commander. In 1919 he had been elected Liberal M.P. for Hull (Central) and in 1926 he joined the Labour Party, losing his seat in 1931. In the House of Commons he became a pertinacious questioner of ministers At one time Kenworthy was heavy-weight boxing champion of the navy

Kenya British colony and protectorate in East Africa It covers 224,960 sq m and has a coastline of about 600 m on the Indian Ocean Llsewhere its borders touch Tanganyika, the Sudan, Abyssinia and Italian Somaliand The surface is hilly and in parts mountainous, Mount Kenya being 17,000 It high The rivers include the Tana, Juba and Umba, and there are several lakes Nairobi is the capital, but Mombasa is the largest town Mombasa and Kilindini are scaports, Kisumu is a port on Lake Victoria

The bulk of the country the colony, into seven provinces, origi the East Africa Protectorate divided originally forming forming the East Africa Protectorate A strip of land along the coast and some islands, leased from the Sultan of Zanzibar, form the protectorate The people are chiefly Bantus, but British settlers have taken up land, and there are many Indians and Arabs Much of the soil is fertile, conce, cotton, rubber, maize and other tropical products being grown, and there are farms for sheep and ostriches Much of the land is heavy forest. The government is under a governor, assisted by an executive and a legislative council Both Indians and Arabs are represented in the latter. The country has a railway system and aerodromes for the air service The unit of currency is the silver shilling Pop (1931) 3,040,960, of whom 16 800 are Europeans

Kepler Johann German astronomer Born at Well, Dec 27, 1571, he was educated at the University of Tübingen. In 1594 he went to Graz as Professor of Mathematics and Astronomy, and in 1601 he succeeded Tycho Brahe in a similar position at Prague Later he lived at Linz and was Listowel The coast is much indented by Ken astronomer to Wallenstein He died Nov mare River, Dingle Bay and other openings,

15, 1630

Kepler did a great deal of valuable work, but his chief title to fame arises from his three laws of planetary motion, which were used to good purpose by Newton, and are the basis of modern astronomy

Keppel Name of a family famous in the British Navy A member of the family came to England with William III and was made Earl of Albemarle Augustus Keppel, a son of the 2nd earl, was born April 25, 1725, and enterred the navy as a boy He saw a good deal of service and rose to be an admiral and commander in-chief of a fleet He was an M P for some years and in 1782 was made First Lord of the Admiralty and a viscount. He died Oct 2, 1786

A later sailor of the same family was Henry

A later sailor of the same family was Henry Keppel, a son of the 4th carl He was born June 14 1809, entered the navy in 1822 and lived until Jan 17, 1904 Ho held important commands and rose to be an admiral of the fleet Sir Henry wrote A Sailor's Life Under

Four Sovereums

Kerensky Alexander Feedervitch Rus sian leader He was born in 1881, became a lawyer in Moscow and a leading figure among the reformers and sat in the last Duma. In 1917 when the revolution broke out, he joined the government and, as Minister of War directed the military opera. tions that were the last efforts of Russia against Germany Later in the year he became prime minister and then president of the new republic, and was for a time the ruler of the country The Bolshevists, however, soon proved too strong for him and he escaped from Russia In 1919 he published an account of his activities called The Prelude to Bolshevism In 1932 he wrote for the Press in London

Kerguelen Land Island in the Indian Ocean, some times called Desolation Land It covers It covers 1400 sq m but is uninhabited It was dis covered by Yves Kerruelen Tremarce, a French saller in 1772 and is a French pos session, having been annexed n 1893

A plant called the kerguelen cabbage is eaten by sailors as a vegetable

Kerman City of Persia It is about 400 m south east of Teheran and Is the centre where several roads meet A trading centre it is famous for its carpets Kerman is the capital of a province which is noted for its goats and camels Pop 40,000

Kermes Dyestuff resembling cochineal the dried female scale insects found on a species of oak (Quereus coccifera) growing in the Mediterranean region in Europe Kermes has been superseded by cochineal and the more recent aniline dyes, but is used still in the East

to mineral Kerosene Name given to milluminating oils, especially those derived from petroleum by fractional distillation and commonly known as parafilm Name given oil Kerosene is a mixture of liquid hydro carbons with a specific gravity from about 0.780 to 0.830, and for safety in use must have a flashpoint not below 150 C

Kerry Counts of the Irish Free State, in the most im the SW of the Province of Munster It covers 1815 sq m Traleo is the ketones occurred town other places are killarner and essential oils

mare River, Dingle Bay and other openings, and its interior is perhaps the most mountainous part of Ireland, containing McGillicuddy's Reeks and other ranges The scenery, both coastal and inland, is very beautiful, as around Killarnev, Glengariff and other beauty spots and on many rivers and lakes Kerry includes Valencia and other islands Agriculture is the chief industry, but there are also some peasant industries. There are many remains of the

Industries There are many remains of the past in the county and many legends are associated with it Pop (1926) 149,171

The title of Earl of Kerry is borne by the cliest son of the Marquess of Lansdowne, at one time a large landowner in the county. It dates from 1722 Kerry cattle are a small but fine and hardy breed found in this part

of Ireland

Kesteven One of the divisions of Lincolnshire It is in the south west of the county and covers about 750 sq m It has its own county council, Sleaford being its county town

District of Kent Keston District of Kent It is 4 m from Bromley and has become a residential suburb of London Here is a

large common

Kestrel Genus (Falco) of small birds of The common kestrel (Finnunculus) also called the windhover, is found Genus (Falco) of small birds of prey The common kestre! (F in Great Britain and other parts of Europe and Asia The male has black spotted, reddish plumage with ashy-grey crown and tail The bird resembles the falcon and averages about 13 in in length and feeds on mice and insects and sometimes on young birds The eggs are red and spotted.

Keswick Market town and urban dis on the Greta, 13 m from Cockermouth, and is reached by the LMS Rly Near is Greta Hall once the residence of Southey The town is a centre for visitors to the Lake District, it adjoins Derwentwater and Skiddaw is near Every summer the Keswick Convention, an evangelical gathering, is held here Lead pencils are made in the town Pop (1931) 4635

Ketch Small coasting vessel fore and att rigged It has, in addition to a mainmast, a mizzen mast placed in front of A similar rig is adapted for some the rudder kinds of yachts

Ketch lived in the time of Charles II and in 1662 was appointed public executioner He executed Lord William Russell, the Duke of Monmouth and other convicted persons He died in 1686

Ketchup Sauce or relish It is prepared chiefly from mushrooms, toma toes or green walnuts, salted and spiced, steeped in vinegar, and boiled It is also spelt catsup

Ketley Village of Shropshire It is 2 m. Wellington and has a station on the GW Rly The chief industry is coal mining Pop 2200

Series of organic compounds Ketones Ketones They result from the oxidation of secondary alcohols, and, unlike the nearly related aldchydes do not possess reducing properties. Acetone is, industrially, the most important, being used as a solvent in several manufacturing processes. Other ketones occur as constituents of various

Kett Robert. English agitator Born about 1500, he lived at Wymondham where he became a tanner He took the lead against the enclosure of common lands In 1549, with his brother, William, he marched with the rebels to Norwich and in July encamped on Mousehold Heath, where, sitting under a tree, he held courts and heard complaints from the people around They got possession of Norwich, but on Aug 26 the rebel force was destroyed by troops under the Earl of Warwick. The Ketts were taken and hanged, Robert being put to death in Norwich, Dec 7, 1549, after a trial in London

Kettering Urban district and market town of Northamptonshire It is 72 m from London and 14 from Northampton, on the L.M S Rly Wickstead Park is a public recreation ground The chief industry is the manufacture of boots and shoes Pop (1931) 31,220

Kettle Hole Natural cavity resembling a kettle's interior They are due to scouring by detrital materials in eddying currents of water and are found in rocks Examples occur in Switzerland, Norway and North America

KeW Suburb of London It is on the from London, and forms part of the borough of Richmond A modern bridge connects it with Brentford Kew Green is an open space and S Anne's is the chief church At Kew is the observatory maintained by the Meteorological Office

logical Office

Kew is chiefly known for its palace and cardens The palace was bought by George III in 1781 and was, for some time, a royal residence In 1899 it was opened to the public.

residence In 1899 it was opened to the public. Kew Gardens, originally the gardens of the palace and known as the Royal Botanic Gardens, are the chief botanical gardens in England They cover 288 acres During and since the 18th century many foreign plants were introduced, and the collection has become quite remarkable In 1841 the gardens were opened to the public. In the grounds are four museums, the Chinese Pagoda, the Herbarium, Palm House and laboratories The gardens come under the control of the Ministry of Agriculture as the centre for research into plant life and its possibilities

Key In architecture a term applied to the central stone (keystone) at the apex of an arch, locking together the component parts

A key is also an instrument for manipulating the bolt of a lock, and a tool for turning a nut. In music a key is a system of sounds related to one certain sound or keynote, and also the lever which raises the hammer in a planoforto or covers the sound-holes in a flute, etc

Keyes Sir Reger John Brownlow English sailor Born in 1872, he
entered the navy in 1885 He served for a time
as a naval attaché and had commanded submarines when the Great War began He
served both in the North Sea and in the
operations against the Dardanelles and in 1917
was made Commander of the Dover Patrol
He was responsible for the raids, in April, 1918
on Zeebrugge and Ostend, being rewarded
with a knighthood At the peace he was given
210,000 and made a baronot In 1919 Keyes
was chosen Commander of the Battle Cruiser
Squadron of the Atlantic Fleet, in 1921 he
became deputy-chief of the naval staff, in

Born | 1925 commander-in-chief in the Mediterranean ham | and in 1929 commander-in-chief at Portsmouth | lead | in 1930 he was made an admiral of the fiect | In | He struck his flag in 1931 He was elected M P rehed | for North Portsmouth in 1934, and again at the y general election of Nov, 1935 In May, 1935, itting | he was placed on the Retired List

Keyham District of Plymouth It stands on the Hamoaze, on the GW Rly and consists chiefly of buildings associated with the naval dockyard. Here is the college at which students are trained to become engineer officers in the navy, accommodating about 350 pupils

Keyne Welsh saint She lived as a hermit near Bristol where legend identifies certain local fossils with snakes petrified by her prayers Another tradition claims her for Cornwall where a well, bearing her name, exists She lived about 485

Keynes John Maynard English economist Born at Cambridge, June 5, 1883, he entered the civil service in 1906 and served in the India Office and the Treasury In 1919 he represented the Treasury at the Peace Conference in Paris, but soon after he left the service and wrote a criticism of the conference in The Economic Consequences of the Peace He then became bursar of King's College, Cambridge, and chairman of the National Mutual Life Assurance Co Since 1912 he has edited The Economic Journal. In 1926 he published The End of Laissez Faire and in 1930 declared in favour of a tariff on imported goods Another of his books is A Treatise on Money, and in 1931 he published Essays in Persuasion Keynes married the Russian dancer, Lydia Lopokova

Keys distribution of the last of the legislature of the Isle of Man. It consists of 24 members, who are elected by men and women electors, for seven years With the council or upper house, it forms the parliament of the island called the Court of Tynwald

Keyserling Hermann German writer and philosopher Born in Estonia, July 21, 1880 He went to several universities, including Heidelberg, and spent several years in the study of science and philosophy In 1908 he inherited his father's Russian estates and the title of count, but lost the former during the revolution of 1917 He settled at Darmstadt where, in 1920, he founded the School of Wisdom After having spent much time in travel, he expressed his philosophy of life in the book which made him famous, and which has been translated into English, The Travel Diary of a Philosopher, 1925

Khaki Indian word meaning dust-coloured and denoting various fabrics used for clothing for soldiers. It was first worn by soldiers in India in 1848 and during the Mutiny came further into use. Owing to its useful colour, it was introduced into the British Army during the war with the Boers, 1899-1902 Khaki then became the official field service uniform for almost all the troops and has been adopted by other armies

Khalifa Title borne by the arch-leader Abdullah el Taashi He first appeared as one of the advisers of the Mahdi and a leader of those who objected to Egyptian authority in the Sudan In 1885 he succeeded to the Mahdi's position and ruling the tribes there, he maintained himself at Khartoum and

738KIDSGROVE then at Omdurman until 1898 In September

of that year his forces were utterly defeated by the British and Egyptians under Kitchener He escaped, but on Nov 24, 1899, was again defeated and killed

Title used in Asia It means lord Khan Title used in Asia It means for the Mongol, Jenghiz Khan

Kharkov Capital of the Ukraine It is 250 m from Klev and is one of the most important trading and manu facturing centres in Russia. Well served by rallways, it has a trade in wheat and wool and many manufactures. Its fairs are notable, and it has a broadcasting station (937 5 ML, 20 kW) Pop 417,200

Khartum City and capital of the Anglo Khartum Egyptian Sudan It stands at the junction of the Blue and the White Nile, 1356 m from Cairo It is connected by rallway with Shellal, on the Nile with Port Sudae on the Ped See and with El Obbid. The Sudan, on the Red Sea and with El Obeid The city proper lies between the White Nile and the Blue Nile, with a suburb across the latter Away to the east is Omdurman Khartum was Away to the east is Omdurman Khartum was founded in 1822 and destroyed by the Arabs in 1885 Taken by the British in 1898, it was inid out and rebuilt on modern lines The buildings include the Anglican Cathedral and the Gordon Memorlal College Pop 50,463

Khedive Title borne before 1014 by the ruler of Egypt A Persian name meaning prince, it was given in 1807 by the Sultan of Turkey to his vassal, Ismail Pasha In 1914 Furkish rule in Egypt ended and the Khedite was deposed the ruler's title was then changed to Sultan, and in 1922 the sultan was proclaimed king

Town of Ukraine Kherson Town of Ukraine 90 m from Odessa, it stands on the Dnieper being a river port There are some manufactures and a trade in timber, hides, etc. Pop 58 800 Abother Kherson is 2 m 90 m from

from Sevastopol in the Crimea

Khiva City of the Soviet Republic of Uzbekistan It is 470 m from Tashkent and is an important trading centre At one time it was the capital of a khanate, which lay to the north of the Sea of Aral and covered some 24 000 sq m It became Russian in 1873 After the Great War it passed under the rule of Bolshevists and was for a time the capital of a small Soviet republic Pop 20,000

Khyber Pass Rocky defile leading from Afghanistan into India It is 33 m long and is now the main road from Kabul into the North West Frontier Province The rallway has recently been continued from Jamrud 11 m west of Peshawar to Landi Kotal overlooking the Afghanistan plains. There was fighting in the pass between the British and the Afghans in 1839 42 and ogain in 1879 80

K130 Chau District in the Province of Shantung, China In 1898 Gormany secured from China the lease of some 200 sq m here on account of the murder of two German missionaries. On this was built the port of Tsingtan which was strongly fortified On Nov 7, 1914 after a siege it was taken by the Japanese and British. The

sca level, west of Banff, Alberta, it is traversed by the main line of the Canadian Pacific Railway. The Kicking Horse or Wapta River flows through it.

Kidbrooke District of London It is in the borough of Green wich, on the S Rly 7 m from the city Here is a station of the Royal Air Force

K1dd Benjamin British sociologist Born Sopt. 9, 1858, after being a clerk in the Civil Service he travelled in America and Canada in 1898, studying economics, and in 1902 did the same in South Africa. In 1904 1902 did the same in South Africa In 1904 he published Social Dvolution, which was translated into many languages including Chinese He has also written The Control of the Tropics (1898) and Principles of Western Civilisation (1902) He died at Croydon, Oct 2, 1916

K1dd William Scottish pirate He was been at Greenock about 1660 and became a sailor seeing a good deal of service on board a privateer in American waters In 1696 he himself obtained command of a privateer intended to prey upon French commerce, but soon he turned pirate and, in the Adventure, did a great deal of damage to English and other shipping In 1699 he was captured at Boston and sent to England where he was tried and sentenced as a pirate He was hanged May 23 1701

Kidderminster Borough and mar cestorshire It stands on the Stour, near where it falls into the Severn, 15 m from Worcester and 135 from London and is reached by the GW Rly The chief industry is the manu facture of carpets The town has memorials to Richard Baxter and Rowland Hill Pop  $(1931) 28.\overline{914}$ 

Kidnapping a human being, es pecially a child Originally applied to stealing persons for the plantations in North America, it is now used for stealing a child It is an offence in Great Britain under a law of 1861, punishable by penal servitude Legally it is known as abduction

Kidney Organ of the body Com-prising a pair of glands in the abdomen, close to the diaphragm and the spine it eliminates the blood s waste nitro genous matter in the form of urea and other saline substances dissolved in water It is been shaped and purplish brown in colour The two kidneys have shundard parries blood The two kidneys have abundant nerves blood vessels and lymphatics besides filtering and secreting tubes there normally pass through the duct into the adult bladder 50 oz or 21 pints of urine in 24 hours

The kidneys are subject to a number of diseases, among them Bright's disease and ienal calculus

The kidneys of the lamb, sheep and other animals are articles of human dict.

Kidron Watercourse and torrent bed in Palestine Rising between Jeru salem and Olivet it was the Brool Cedron of John vili It traverses a wild magnificent gorge Wady en Var or the Valley of Fire" and ends in the Dead Sea During most of the vear it is dry

district was ruled by Japan until 1922 when it was returned to China Kicking Horse Pass Crossing in Kicking Horse Pass Crossing in Condon on the LMS Riy It is also in the Canada Situated on the eastern boundary of British Columbia 5296 ft. above Kidsgrove Urban district and market town of Staffordshire It is 6 m from Stoke on Trent and 153 from London on the LMS Riy It is also perved by the Trent and Mersey Canal Coal mining chief industry is the making of tinplate and around are coal mines Pop (1931) 3161

Kiel Town and seaport of Germany, on Rici Bay, an opening of the Baitic, and 70 m from Hamburg It owes its importance to its position at one end of the ship canal, and was, before the Great War, one of the chief stations of the German Fleet The palace dates from the 16th century and the university from the 17th, but modern buildings have been erected for the latter

The harbour was much improved after Kiel became Prussian in 1866 It was strongly fortified, but by the Peace Treaty of 1919 the defences were destroyed and the naval establishments turned to commercial uses It has large shipbuilding yards and hugo docks, as well as flour mills and printing works Fishing is another industry and it is a pleasure resort, its annual regatta being a noted event. There is a large trade in agricultural produce Kiel was part of Holstein until 1866 and the residence of the dukes of Holstein for many years It has a broadcasting station (232 2 M., 0 25 kW) Pop 213,880

Kiel Canal Ship canal Cut through the peninsula of Jutland, it connects the North Sea and the Baltic Begun in 1887 and finished in 1895 it was deepened between 1909 and 1914 to take the largest vessels. Its length is 61 m and its depth 45 ft. Kiel is at one end of the canal and Brunsbüttel, on the Elbe, at the other, and there are huge docks at Brunsbüttel and Holtenau By the treaty of 1919 the canal is open on equal terms to the ships of all nations that are at peace with Germany

Kieselguhr Material used in making dynamite and some kinds of soap, as a polishing powder, and as packing for articles requiring to be fireproof Consisting of the remains of diatoms, it is almost wholly silica and is found deposited in certain freshwater lakes in Scotland, Sweden, Germany, and North America, as a greyish or brownish material, sometimes called diatomite.

Kiev Town of Ukraine It stands on the Dnieper, where it is joined by the Desna, 280 m from Odessa There are some manufactures and a large trade in cattle, timber and agricultural produce An old city, Kiev was at one time the chief town of the principality of Kiev It was taken by Russia in 1886 During the Great War it was seized by the Germans and later by the Poles It has a broadcasting station (1034 M, 36 kW) Pop 514,000

Kikuyu Village and district of Kenya, East Africa The village is 15 m from Nairobi and is notable because of a conference of missionaries held here in June, 1913 Various Protestant denominations were 1913 Various Protestant denominations were represented and joined in a communion service celebrated by two Anglican bishops The Bishop of Zanzibar protested and the Archbishop of Canterbury consulted his colleagues on the matter After a conference he decided, in 1915, that the two bishops had acted irregularly in giving communion to those who were outside the Anglican Church He laid it down, however, that this could be done if the bishop of the diocese consented

Kidwelly Borough and market town stands on the little River Gwendraeth, near where it falls into Carmarthen Bay, and is 9 m from Llanelly and 217 from London The chief industry is the making of tinplate and of Crawford Near is Kilbirnie Loch Pop.

Kilbride Town of Ayrshire It stands near the coast, with a station on the LMS Rly, 4 m from Ardrossan On the coast is a little watering place called Seamill Pop 2400

Kilbride, which means the Church of S. Bride, is properly West Kilbride East Kilbride is a town of Lanarkshire There is also a Kilbride in Skye

Kilburn District of London To the partly in Hampstead and partly in Willesden In the 18th century a spa called Kilburn Wels The district includes Kilburn existed here

Park Kildare County of the Irish Free State.
Kildare It is in Leinster, wholly inland,
and covers 654 sq m The rivers are the
Liffey, Boyne and Barrow, and it is served
by the Gt. S. Rlys, and the main Irish canals Kildare is the county town, others being May-nooth, Naas, Athy and Newbridge The county contains the Curragh and much of the Bog of

Allen It has some ruins, notably those of Monasterevan Pop (1926) 58,028.

Kildare St is a thoroughfare in Dublin. In it is the Kildare St Club, the most famous of Irish clubs, founded in 1788

Kildare Market town of Kildare, also the county town It is 30 m from Dublin, on the Gt S Rlys Pop 2116

Kildare Earl of See FITZGERALD.

Kilimanjaro Mountain of Tanganyika It is an extinct volcano with two peaks Kibo, the higher, being 19,325 ft, Mawenzi, the lower one, lying about 7 m to the west. The lower part is a dense forest, the higher portion is covered with snow and glaciers. The top of the mountain was first reached in 1899, in 1997 the accept was first made by a woman 1927 the ascent was first made by a woman

Kilkee Watering place of Co Clare Ireland. It is 8 m from Kilrush, on the Gt S Rlys The place is visited for the bathing and the scenery. Near are the ruins of Dunlicky Castle Pop 1700

County of the Irish Free State Wholly inland, it is Kilkenny State in Leinster and covers 796 sq m Kilkenny is the county town, other places are Castle-comer, Callan and Thomastown The rivers are the Barrow, Suir and Nore The county is level except for a few hills in the north, and the soil mainly fertile Agriculture is the chief soil mainly fertile Agriculture is the chief industry, a little coal and marble being mined Pop (1926) 71,000

Kilkenny City and market town of Kilkenny, also the county town, and the seat of the Bishop of Ossory It stands on the Nore, \$1 m from Dublin by the Gt S Rlys The town is divided by a small stream called the Brogen into two parts, one Irish and one English Overlooking the city is the castle, the residence of the Marquess of Ormonde In the neighbourhood are some manastic runs and the restored Black Abbay monastic ruins and the restored Black Abboy The industries include marble works and flour mills, and there is an agricultural trade
Pop 10 050

Killaloe City of Co Clare, Irish Free State It stands on the Shannon 17 m from Limerick Across the Shannon is Ballina, a bridge linking the two places The town is visited for the fishing Pop 900

Killarney district of Co Kerry, Irish Free State It is 46 m from Cork, on the Gt S Rlys Killarney House, the seat of the Earl of Kenmare, has beautiful gardens

Pop 5300

Near the town are the Lakes of Killarney, one of Ireland's beauty spots. They are three in number—the upper, middle and lower The largest is 4 m long The middle one is some times called Muckross Between the upper and middle lakes is the meeting of the waters, really a rapid The river Flesk flows into the lakes and the River Laune flows out of them There are several islands including Ross and Innisfallen, the latter once a famous seat of learning Objects of interest are the ruins of Ross Castle and Muckross Abbey Near are the Gap of Dunloe and many beauty spots

Another Killarney is a town of Queensland It is near the border of New South Wales

Pop 1500

Killiecrankie Pass in Perthshire It in length The River Garry and a road go through the pass where, on July 17, 1689, Viscount Dundee and his Highlanders defeated an English force, 4000 strong Dundee, however, was killed in the fight

Killigrew Thomas English dramatist Born in London, Feb 7, 1612, he was a son of Sir Robert Killigrew 1612, he was a son of Sir Robert Killigrew He grew up at the court of James I and Charles I and became known later by his play The Parson's Wedding In 1673 he was made Master of the Revels to Charles II He built a theatre in Drury Lane, London Killigrew died March 19, 1683, and was burled in Westminster Abbey Altogether he published nine plays and in them women were first allowed to appear on the London stage

Killingworth District of Northum-from Newcastle, on the LNE Rly and is a coal mining centre Pop 10,600

Killyleagh Seaport of Converted Northern Ireland Co Down It is 4 m from Crossgar, on Strangford Lough Linen is made here Pop 1600

Kilmacolm Watering place of Ren It is on the Firth of Clyde 8 m from Greenock, by the LMS Rly Here is a hydropathic establish ment. Pop 5300

Kilmainham District of Dublin To the west of the city, it has two famous buildings One is the prison built about 1850 and used for political prison ers In 1882, C S Parnell when in prison here made the so-called Kilmainham Treaty with the British Government represented by Captain O Shea He agreed in return for his Captain O Shea He agreed in return for his release to assist the authorities to pacify Ireland He and his colleagues were released but the treaty had no other issue because of the resignation of the Irish Secretary, W. E. Forster and the murder of his successor, Lord F. Cavendish. The other building is the Lord F Cavendish The other building is the hospital This was built from designs by L N E Rly The chief industry is coal mining ir C. Wren in 1675 79 and was long used as a range of hills near is called the Kilsyth Hills bome for old soldiers

Irish Free the Shannon is places The places was noted for the woollen bonnets made here and named after the town Pop 35,000

The title of Earl of Kilmarnock was borne

by the family of Boyd from 1661 to 1746 The Boyds owned land in Ayrshire and had a castle at Kilmarnock. William, the 4th earl, was taken prisoner at Culloden, and was executed, Aug 18,1746 The title then became extinct. The title of Viscount Kilmarnock is now howe by the edgest sop of the Foll of now borne by the eldest son of the Earl of

Erroll (q v )

Kilmore Name of several places in Ire land. The most important is 2 m from Cavan, which has both a Protestant and Roman Catholic bishop Another Kilmore

is in Mayo
The title of Earl of Kilmore has been borne since 1822 by the family of Needham, who had lands in Co Down In 1825 Sir Robert Need ham was made a viscount and in 1822 the 12th viscount was made an earl The family seat is Mourne Park Newry, and the earl's cluest son is called Viscount Newry

Kiln Structure designed for burning, baking or drying materials. In the lime kiln type, the material comes into contact with the fuel, broken limestone and fuel being fed at the top of the kiln and a red heat maintained for some hours, or continuously in In another type, the furnace is some cases either beneath or surrounds an oven in which the material is baked or fired Of this type are brick kilns, pottery and hop kilns The are brick kilns, pottery and hop kilns. The hop kiln or east house is provided with a funnel shaped top which can be turned according to the direction of the wind

K110 Greek word for 1000 It is much used in the metric system as in kilo gramme, 1000 grammes, kilolitre, 1000 litres and kilowatt, 1000 watts

Kilometre Measure of length of the metric system. It is equal to 1000 metres or 10 hectometres, and its abbreviation is kilo or km Its equivalent in British measure is 0 62137 of a mile, nearly 1094 yards Countries which have adopted the metric system (i.e., France, Belgium) show road distances in kilometres The square kllometre is equivalent to 247 acres or 0 3861 of a square mile

Kipatrick shire It is on the Clyde, 10 m from Glasgow, on the LMS Rly Legend says S Patrick was born here New, or East Kilpatrick, 6 m from Glasgow is a suburb of that city Its other name is Bearsden The Kilpatrick Hills are in the countles of Duycherton and Striller. Durabarton and Stirling

Kilrush Urban district, market town and scaport of Co Clare, Irish Free State It is 27 m from Lunis There is a harbour and some shipping and fishing Pop 3700

Near Kilsyth a battle was fought between the Royalists under Montrose and the Covenan-ters, Aug 15, 1645 The Royalists were victers, Aug 15, 1645 torious

Kilt Garment worn sometimes by men in the Highlands of Scotland Part of the traditional dress of the Highlander, it is really a skirt reaching to the knee, made of tartan, each clan having its own coloured pattern It is worn by the Highland regiments of the British Army The kilt is also part of the national dress of Ireland and attempts have been made to ravive its use there been made to revive its use there

Kilwinning Burgh of Ayrshire It stands on the Garnock, 24 m from Glasgow, on the L.M.S. Rly The industries include engineering works and woollen mills Kilwinning is famous for its archers and as an early home of freemasonry its annual archery festival is described in Old Mortality Pop (1931) 5324

Kimberley Name of two English hamshire, 7 m from Nottingham, on the L N E Rly The chief industries are coal mining and brewing Pop 5200

The other Kimberley is in Norfolk, 4 m from Wymondham Near is Kimberley Park, the seat of the Earl of Kimberley

Kimberley City of the Cape Province, South Africa. It is in the west of the province, 540 m. by railway from Capetown, and is the most important place in a wide district. The museum contains a fine collection of Bushman art and there is an art gallery It includes Beaconsfield and Kenilworth Kimberley owes its existence to the diamond mines, the working of which is the city's main industry The first was opened in 1870 Pon 40.000 city's main industry 1870 Pop 40,000

city's main industry The line was 1870 Pop 40,000

In Oct., 1899, the Boers began to besiege Kimberley, which was held by a small British force until relieved on Feb 15, 1900 The bulk of the defenders belonged to the Loyal N Lancashire Regiment and the Kimberley Light Horse Memorial Hill is a reminder

Kimberley Earl of English title borne by the family of Wodehouse John Wodehouse, a member of an

Wodehouse John Wodehouse, a member of an old and influential Norfolk family, was born Jan 7, 1826, and educated at Eton and Christ Church, Oxford In 1846 he succeeded his grandfather as Baron Wodehouse

In politics a Liberal, he was Under-Sceretary for Foreign Affairs, 1852-56 and 1859-61 In 1864-66 he was Lord-Lieutenant of Ireland Prop. 1868-70 having been made an earl in 1864-66 he was Lord-Lieutenant of Ireland From 1868-70, having been made an earl in 1866, he was Lord Privy Seal, and in 1870-74 was Secretary for the Colonies In 1880-82 he was secretary for the Colonies and in 1882-85 and 1886 Secretary for India From 1892-94 he was again Secretary for India and from 1894-95 Foreign Secretary He was leader of the Liberal Party in the House of Lords from 1896 until his death, April 8, 1902 His son, John, became the 2nd earl

Kimbolton Market town of Hunting-from Huntingdon, on the L MS Rly It is named after the little River Kym, which flows by it. Pop 900

Kimmeridgian Term used in geology Applied to the dark bluish clay found in Dorset, Yorkshire and other English counties, it is a subdivision of the Jurassio system and belongs to the Upper

Oolite series The name is that of a village in Dorset near which the clay is found fossils have been found in it

Kimono Japanese garment with sleeves gown It is long and loose and is confined by a

Kin Relationship by blood The term next of kin is much used in English law In case of death the next of kin has certain duties The property of a person who dies intestate is divided among his kinsfolk, according to certain rules See INTESTATE

Kincardineshire Scotland is in the east of the country with a coastline on the North Sea, stretching from Aberdeen to Its area is 382 sq m In the north Montrose are deer forests and grouse moors, in the south is the district called Strathmore and in the west and in the centre are the Grampians Stonehaven is the county town, other places are Inverbervie, Banchory and Laurencekirk Agriculture is the chief industry, but the only fertile soil is in the valleys. There is some fertile soil is in the valleys There is some fishing The county is sometimes called the Mearns Pop (1931) 39,864

Kindergarten German word meaning children's garden It is used for the system of educating young children, introduced by G W Froebel (qv) The system provides time for play and allows the child to exercise its creative faculties in a number of ways In England the first kindergarten was opened in London about 1850, and soon they were found all over the land, often as departments of schools for German Kindergarten the land, often as departments of schools for girls

For Kindergarten Teachers courses are provided at the Froebel Educational Institute Training College, Grove House, Rochampton Lane, S W 15, Maria Grey Training College, Salisbury Road, N W 6, The Training College, Bedford, and at certain of the two-year Testification College, Record of the College College, Record Col Bedford, and at certain of the two-year Training Colleges special courses in junior work are provided

Kinderscout Hill in Derbyshire Near Edale, it is the highest point of the Peak District, being 2088 it It is a grouse moor

Kindersley Sir Robert Molesworth English banker Born Nov 21, 1872, the son of a soldier, he was educated at Repton He entered a banking firm and became Chairman of Lazard Bros E Co, and a Director of the Bank of England During the war period he was Chairman of the National War Savings Committee, and after its conclusion was constantly called to advise the British Government He represented Great Britain when the Dawes Plan was arranged in 1924, and on other important occasions

Kinematics Section of mechanics dealing with pure motion, that is, motion without reference to mass or force It is concerned with direction, acceleration, velocity and composition of motion, and brings into the range of consideration the ideas of time and space in relation to motion In many ways the distinction between kine matics and dynamics becomes somewhat arbitrary and artificial Applied kinematics is a theory of mechanics dealing with the conversion of reciprocal into circular motion in

action of forces upon the motion of bodies and of the nature of motion itself Newton's laws of motion, and the fundamental laws by which gravitation and planetary movements are explained, and the theory of vibrations are included under Linetics The application of kinctics to matter in a gaseous state is termed the Kinetic Theory of Gases

Kineton Village of Warwielshire It is on the Gt Westorn Riy At one time Kineton was a market town. Pop 1000

King Name used for a ruler. It was given to the rulers who governed the little states that grew up in England in Anglo-Savon times and was used as a translation of the Latin word rez. There were kings in Greece and Rome and later many of the European countries called their rulers by an equivalent of this word, such as roi and konig.

The early kings were elected, often perhaps from a narrow circle, but later the office became from the contraction of the contraction of the contraction of the carries of the carri

hereditary Hereditary kingship became the rule in England, Scotland, France, Spain, Portugal, Hungary and Bohemia Poland retained an elective king In 1700 the ruler of Brandenburg was made King of Prussia and later the rulers of other German states, Saxony and Bavaria among them, were given the title of king A king was given to the Netherlands in 1816 and later in the 19th century lings arose in Greece, Rumania, Bulgaria and other parts of the Balkan area, and in Italy The German kings disappeared after the Great War and in 1931 the king of Spain was deposed France ceased to be a kingdom in 1852, when Napoleon III declared himself emperor

Some kings are kings of the people, eg, the King of the Hellenes and Louis Philippe when King of the French Others, such as Lingland are kings of the land To day, king is used very generally as a term for a ruler The old tribal rulers in Ireland are referred to as kings and the word is also used for chiefs in Africa

and Asia

King Edward English bishop He was born Dec 29 1829, a son of the Archdeacon of Rochester Educated at Oxford, he was ordained in 1851 and served as a curate From 1858 to 1873 he was at the Theological College at Cucdesdon first as chaplain and then as principal In 1873 he was chosen Professor of Pastoral Theology at Oxford and Canon of Christ Church and from 1885 until his death, March 8, 1910, he was Bishop of Lincoln King was a prominent High Churchman who

exercised a great influence over the students under his care and was remarkable for his personal piety. He is chiefly known for the case in which he was prosecuted before the Archbishop of Canterbury for permitting illegal exercipation in church. The result was exercised a great influence over the students illegal commonial in church The result was the so-called Lincoln Judgment that laid down the law of the Church of England about these

matters

King William Lyon Mackenzie Canadian Born Dec 17, 1874, at Berlin Ontario he was educated for the law In 1900 he entered the Ministry of Labour at Ottawa and for eight years was a civil servent In 1908 King was elected an MP and from 1909 11 he was Minister of Labour under Sir Wilfred Laurier In 1919 on Lauriers death he was chosen leader of the Liberal Party and in 1921 he became Prime Minister and Secretary for External Affairs. He left office early in 1926, but soon returned and was again Premier and Secretary for External Affairs 1926 30 In 1930 his party was defeated and he resigned Since 1926 he had sat in the House of Commons as one of the members for Saskatchewan King attended the Imperial Conference in 1923 In Oct., 1935, he again became Prime Minister His writings are chiefly on industrial subjects, on which he is an authority

King Bird Name of various American flycatchers The males dur ing the breeding season, resist pugnaciously the approach of large birds, even eagles The commonest are the ashy groy Tyrannus carelinensis, a summer migrant to Canada, and the groy, West Indian petchery (T griscus dominicensis), which is larger, darker and florcer still

King Charles Spaniel Breed dog which became fashionable in Charles I's reign Derived from the cocker spaniel, there are two favourite strains, the glossy black and tan and the chestnut red ruby The dog has a short muzzle, wide eyes upturned nose, long, silky coat and drooping cars. The tri colour Prince Charles is black white and tan

King Edward VII Land District in the Antarctic Ocean It lies to the south east of Ross Sea nearly 2000 m due south of New Zealand It was touched at by Sir John Ross in 1842, but was not named until 1902, when R F Scott visited it

Kingfisher Large family of birds allied to the hornbills With large heads, long straight bills and small feet they are often brilliantly coloured The common kingfisher, Alcedo ispida is Britain's handsomest bird The female lavs two clutches of round, white eggs on unclean nests of disgorged fishbones burrowed in river banks It lives mainly on fish, but some species live on inscots and reptiles The much larger North American belted kingfisher rarely struggles to Britain See LAUGHING JACKASS

King George V Land District in the Cantarctic regions Its constline was explored in 1911 14 It lies between Adelle Land and Oates Land and Is nearly 2000 m due south of New Zealand It bolongs to Great Britain

Kinghorn Burgh of Fifeshire It A monument marks the spot where, in 1286, King Alexander III was killed by falling from his horse Pop (1931) 2001

Alexander William Fnglish Kınglake historian and traveller Born at Taunton, Aug 5, 1809, he was educated at Eton and Cambridge, and was called to the Bar in 1837 He travelled throughout the Tast, and recorded his impressions in Eolien (1844) He went to the Crimea in 1854, and at 1854, and the control of the Crimea in 1854, and the Crim Lord Ragian's suggestion wrote an elaborate History of the Crimean War, upon which eight volumes he worked until 1887 He was MP for Bridgewater, 1857 68 and died Jan 2, 1891

King of Arms Name of a high official from about 1400 and there are now in the British Islands four kings of arms one for each of the great orders of knighthood Gartor, principal king of arms is the herald of the Order of the Bath The Others are the Lord Lyon King of Arms is the herald and the Order of the Bath The Scotland, and Ulster king of Arms in Ireland,

who act for the Order of the Thistle and the Order of S Patrick

Oscar Land District of British North America It is the south-western part of Ellesmere Island and a British possession, although named after a Swedish king King Oscar II Land is in the Antarotic It lies between Weddell Sea and Bellingshausen Soa, with Graham Land to the south It was visited and named by the Swedish explorer, Nordenskiold, in 1902

King Post Vertical beam at the apex nected at its lower end to the tie beam Struts project diagonally to the centres of the principal rafters when necessary This is the normal construction in roofs and bridge girders for spans up to 30 ft.; in wider spans two queenposts usually replace the king post.

Kings Books of Two books of the Old Testament They give a history of the Jowish kings from the time of Solomon to the end of the monarchy The author is un known, tradition mentions Jeremiah

The first two chapters of 1 Kings describe the death of David, thus continuing the second book of Samuel and the reign of Solomon From 1 Kings xi to 2 Kings xvi the division of the country into Israel and Judah down to the time of the captivity is outlined, the the time of the captivity is outlined, the final chapters of 2 Kings describe the Jewish kingdom to the fall of Jerusalem

Bench Division In England one of the three divisions of the High Court of Justice It was at first the court held by the king, who, with the judges, sat on benches It was held at first wherever he happened to be, but after a time was fixed at Westminster Judges from this court went round the country to try offenders in the king's name, as they do to-day In 1873 the court was reorganised and it now consists of 17 or 18 judges, with the Lord Chief Justice at its head All criminal cases of importance come before these judges, as do civil cases except those concerned with chancery, probate, divorce and admiralty matters

Kingsbury Urban district of Middle-and Wembley Park, it is 7 m N W of London and is served by the Met Rly Pop (1931)

Another Kingsbury is a village in Warwickshire It is 124 m from London, on the L M S Rly Pop 1000

Kingsclere Town of Hampshire It is the Here is a famous training stable for race horses. The chief industry is browing Pop

King's College Name given to van legges King's College, Cambridge, was founded in 1441 by Henry VI It is under a provost and has a close connection with Eton It is noted for its chapel, one of the finest examples of Perpendicular architecture in existence

noted for its chapel, one of the finest examples of Perpendicular architecture in existence King's College, London, is part of the University of London It was founded in 1829 and the buildings are between the Strand and the Embanhment. It is under a principal Offshoots of the college are King's College for Women with buildings in the Strand and on Campden Hill, Kensington, King's College School, now at Wimbledon; and King's

College Hospital, which has a fine range of buildings at Denmark Hill The college was reorganised in 1908, when these branches were made independent

Another King's College is a university at Halifax, Nova Scotia It was opened at Windsor in 1790 and remained there until 1923 when, the buildings having been destroyed to the first of the control of th by fire in 1920, it was removed to Halifax It then became associated with Dalhousie

University

King's Counsel In England, Scotbarrister, or advocate of superior rank Any barrister can become a king's counsel on the recommendation of the Lord Chancellor or, in Scotland, of the Lord Justice General He wears a silk gown and the act of becoming a king's counsel is called taking silk He sits

He wears a silk gown and the act of becoming a king's counsel is called taking silk. He sits within the har and cannot appear in a case unless a junior barrister appears with him King's County Former name of the Free State now known as Offaly (q v)

King's Cross District of London It is in the borough of St Paneras, where the Euston Road, Gray's Inn Road, Caledonian Road and other main thoroughfares meet Here is one of the great London railway stations, now part of the LNE system King's Cross has also stations on the Met and tube railways

The district was formerly called Battle Bridge In 1836 a monument to George IV and William IV was erected here and the present name taken The monument was pulled down in 1845

King's Cup Name of a prize offered to the winner of a race at Cowes For aviation it is awarded every year to the winner of an aeroplane race over a course of 700 or 750 miles The aviation cup was instituted in 1922 and in 1930 was won for the first time by a warmen

The aviation cup was instituted in 1922 and in 1930 was won for the first time by a woman, Miss Winifred Brown In 1932 Capt W L Hope won it for the third time The winner in 1935 was Fl Lieut T Rose

King's Evidence a criminal who gives evidence against those associated with him in his offence

King's Evil Name given in olden times to the belief that sufferors from this disease could be cured by the touch of the king Kingsford-Smith Sir Charles E. Australion airman Name Feb 9 1897 in 1998 beniltet disease. man Born Feb 9, 1897, in 1928 he piloted the Southern Cross in the first trans-Pacific flight Later he flew from Australia to England (1929) and from Ireland to America (1930) and in 1933 he flew from England to Australia in 7 days He also made the first west to east Pacific crossing from Australia (1934), and was the first airmen to fly round the world He was knighted in 1932 In Nov, 1935, while attempting another England-Australia while attempting another England-Australia slight, he was reported missing in the Burma region, and all search for him and his companion proved in vain

King's Inn Headquarters of the bar It is conducted very much on the lines of the lines of Court in London and dates from 1400 Inns of Court in London and dates from 1400 or earlier It derives its name from the fact that Henry VIII was its patron The building in Henrictta St., Dublin, was creeted in 1800 Kingsley Charles. English clergyman and writer The son of a

clergyman, he was born at Holme, Devon, June 12, 1819, and educated at King's College, London, and Magdelene College, Cambridge in 1844 he became curate and then vicar of Eversley In 1860 69 he was Professor of Modern History at Cambridge and in 1873 Canon of Westminster He kept his living at Eversley until his death there, Jan 23, 1876

Kingsley was a writer of vigorous healthy stories including Westward Ho and Hereward the Wake Other novels, Allon Locke, Yeast and Hypatia deal with social and religious problems He also wrote a good deal of poetry, including The Saint's Trapedy, and two of the world a great books for children, Heroes and Water Babies An early advocate of social reform, he was associated with the Christian Socialist movement. He wrote many

articles under the name of Parson Lot

Articles under the name of Furson Lot Kingsley's daughter, Mary St Leger, wrote novels under the name of Lucas Malet They include The Wages of Sin and Sir Richard Calmady She married the Rov W Harrison rector of Clovelly, and died Oct. 27, 1931 at 79 Kingsley's younger brother, Henry Kingsley, also won a reputation as a writer For a time he worked in the gold mines in Australia and was later a war correspondent. His novels include Geoffrey Hamlyn, Ravenshoe and The Hilyars and the Burlons He died May 24, 1876

May 24, 1876

Kingsley Mary Henrietta English tra
Kingsley, who was a brother of Charles
Kingsley, sho was born in London, Oct. 13,
1862 Her intrepid journeys in the Dark
Continent are described in her Travels in
West Africa, 1897 She died at Simonstown
8 Africa, while engaged in nursing, June 3

ĭ900

King's Lynn Borough, scaport and folk it is near the mouth of the Great Ouse and is reached by a joint line of the LMS and LNL RISS One of the oldest scaports in England, it is full of historic interest. Its in England, it is full of historic interest. Its old guildhall contains some priceless relics As a scaport Lynn has lost ground partly owing to the closing of the river channels by sand There is, however, some shipping while fishing and rope making are other industries Until 1918, Kings Lynn or Lynn Regis sent one member to Parliament. Fanny Burney was born here Pop (1931) 20 580

King's Messenger Name of four the royal household Their duties are to carry despatches to ambassadors and other persons in high position. Their badge is a silver

greyhound

King's Prize Prize for rifle shooting

It was first given in

1860 and until 1901 was called the Queen s

Prize The amount is £250, and it is awarded
every year being open to members of the
forces throughout the empire The shooting
which is at various ranges first took place at
Windledon, but since 1890 it has been at
Bisley In 1930 it was won for the first time
by a voman Miss W E Foster, and in 1931

A G Fulton created a record by winning it
for the third time In 1935 the winner was

Ar-sergt. F S I rench late Herts \colon

King's Proctor In Fngland a high
business is to watch divorce cases in the public

business is to watch divorce cases in the public interest and to prevent collusion. His offices are at 12 Old Queen Street, Westminster S W 1

King's Regulations Regulations the authority of the king relating to the British novy, army and air force, covering their general organisation, seniority, leave, cere monies discipline, correspondence, financial and other returns, relations with the authorities in foreign places and in the dominions, etc.

King's Speech Address with which the king or his deputy opens each session of Parliament It deputy opens each session of ramanent is is prepared by the Government, and in it their programme for the coming session is outlined. It is read to both Houses assembled In the House of Lords and after debate an address of thanks is sent to his Majesty There are similar speeches in the Pail amonts of Canada Australia, New Zealand and South Africa where the Governor General takes the place of the king

Kingston Name of several places in England Most are distinguished by an additional word, or words as Kingston-upon-Huil, commonly called Hull example is Kingston-upon-Thames A smaller example is Kingston Lacy in Direct
Kingston-on-Soar is a village of Nottingham

shire it is on the Soar, 10 m from Nottingham, on the LMS Rly Here is the Midland Agricultural College Kingston Hall is the seat of Lord Belper

sent of Lord Belper

Kingston City and seaport of Ontario

Class on the eastern end
of Lake Ontario at the mouth of the Cataraqui
River, 175 m from Montreal It is reached by
both the CPR and CNR, and is connected
with Ottawa by the Rideau Canal Flour
milling and shipping, for which there are large
docks, are prominent industries Steamers go
from here to other places on the Great Lakes
and the St Lawrence Kingston occupies the
site of Fort Frontenac, a frontier post It was
named after George III, and from 1841 44
was the capital of the country Pop 25,000

Kingston City, scaport and capital of South-east coast and has a good harbour Kingston is a big trading centre and has a good deal of shipping It is well served by rallways In 1907 great damage was done by an earth quake Pop 62,700

Kingston Duke of English title held from 1715 1773 by the family of Plerrepont In 1627, Robert Plerrepont, a member of an old Nottinghamshire family, was made Viscount Newark, and in 1628 Earl of Kingston. In 1706 Evelyn Plorrepont, the 5th earl, was made Marquess of Dorchester and in 1715 Duke of Kingston He was succeeded by his grandson, upon whose death in 1773 the titles became extinct. The estates passed to a nephew, Charles Meadows who took the name of Plerropont and was created Earl Manyers in 1806. The duke's seat was Thoresby, near Mansfield

An Irish title of Earl of Kingston has been borne by the family of King since 1768 The family seat is Kilronan Castie in Rescommen and the earl's eldest son is called Viscount

Kingsborough

Kingstorough
Kingston William Henry Giles English
28, 1814, he was the son of a merchant who
lived in Oporto His first success came with
his story for boys, Peter the Whaler, in 1851,
and soon he became one of the most popular
writers of adventure stories. Among them were writers of adventure stories Among them were The Three Midshipmen and The Three Admirals

Kingston-upon-Thames
Borough and market town of Surrey, also the
county town It is a boating centre on the
Thames, 12 m from London, on the S Rly
Saxon kings were crowned here and the
coronation stone is a feature of the market
place The industries include browing There
is a fine church Kingston Hill is a favourite
residential area Pop (1931) 39,052

Wingston Additional Poperson Control Population Popula

Seaport of the Irish Free Kingstown Seaport of the Irish Free State, called by the Irish, Dun Laoghaire It is on Dublin Bay, 6 m from Dublin, on the Gt S Rlys Mall steamers run twice daily between Kingstown and Holyhead There is a good harbour with two long and massive piers Kingstown is also a pleasure resort and an urban district The name of Kingstown was given to the place in 1821 when George IV landed here Pop 19 000 Kingstown 19,000

Kingstown is also the name of the capital St Vincent, Windward Islands

of St.

Kingswood Urban district of Gloucestershire It is practically a suburb of Bristol and is a coal mining area Pop (1931) 13,297

Another Kingswood is a district in Surrey It is 22 m from London, on the S Rly A third Kingswood is a village in Gloucestershire

Kingussie Pleasure resort of Inverness-shire It is on the Spey 46 from Inverness, on the LMS Rly Pop 1200

King William's Town Town of Cape Province, S Africa It stands on the Buffalo, 42 m from East London The centre of an agricultural area, it has a botanic garden and is known locally as King Pop (1931) 6542 (European) (European)

Kinkajou Small cat like mammal Cercoleptes caudivolvulus It is known also as the Tree-Bear, and belongs to the raccoon family A native of Central and S America, it is covered with soft, yellow brown fur, and its tail is long and prehensile

Kinmel Park Estate in Denbigh-Rhyi During the Great War a camp was formed here and in 1919 this became a demobilisation centre. In 1929 the house and grounds were bought for a public school which aims at training boys for commercial life

Kinnaird Baron Scottish title borne by Kinnaird Baron Scottish title borne by the family of Kinnaird Sir G P Kinnaird, M P, became the first baron in 1682 The 11th baron, Arthur Fitzgerald Kinnaird, who succeeded to the title in 1887 was a prominent footballer and a leader of the Evangelical Party, being president both of the Y M C A. and the Football Association The family seat is Rossie Priory in Perthshire

Kinnoul Earl of Scottish title borne by the family of Hay Sir George Hay, Lord High Chancellor, was made an earl in 1633 The family seat is Balhousie Castle, Perthshire and the earl's eldest son is called Viscount Dupplin

Kino Gum of commercial and medical value One kind is obtained from a tree that grows in India and another from an African tree It is obtained by cutting the bark, and comes out dark red in colour. It is

Over 150 others including From Powder Monkey to Admiral, which ran as a serial in the Boy's is used in tanning and dyeing, especially the Own Paper He died Aug 5, 1880 dyeing of cotton It is also used in making wine and in a gargle for the throat

Kinross Burgh and county It is town of Loch Leven and is on the LNE Rly F

Kinross-shire County of Scotland between Fiteshire and Perthshire It has an area of 82 sq m In the county is Looh Leven Kinross is the county town Except in the south the surface is flat The chief river is the Devon The county joins with a division of Perthshire to send a member to Parliament. Pop (1931) 7454

Kinsale Urban district, market town and seaport of Cork, Irish Free State It is 24 m from Cork by the Gt S Rlys Fishing is the chief industry Kinsale Harbour, which is really the estuary of the Bandon River, is a fine and protected sheet of water 2750

Off the Old Head of Kinsale, a headland to the SW, the Lusitania was sunk in 1915

Kintyre District of Argyllshire, sometimes spelled Cantyre It is a peninsula in the south of the county, between the Firth of Clyde and the Atlantic It is 38 m long and at its southern point, called the Mull of Kintyre, is a lighthouse The coast of Antrim is only 13 m away

Kipchak Central Asian nomads of Altaian stock, more or less mongolised Found mostly in the Soviet Republic of Uzbekistan, they comprise both the middle horde of the Kirghiz-Kazaks, descended from the mediaeval White Horde, and the Kazan Tartars descended from the Golden Horde

Kipling Rudyard English writer He 1865, son of John Lockwood Kipling He was sent to England and went to the United Services College, Westward Ho! In 1882 he returned to India.

Services College, Westward Ho! In 1882 he returned to India.

In 1881 Kipling published a volume called Schoolboy Lyrics, but more important was the journalistic work he did between 1882 and 1890 This gave him a wide knowledge of Anglo-Indian and Indian life In 1835 he contributed short stories to the Civil and Military Gazette at Lahore, and for a library of books issued by the firm of Wheeler, at Allahabad, he wrote many others These are contained in the volumes Plain Tales from the Hills, Soldiers Three, The Story of the Gadsbys, Wee Willie Winkie, The Phantom Rickshaw, Under the Deodars and The City of Dreadful Night The stories revealed Indian life to English readers in a new light, and on them the foundations of Kipling's fame were securely laid In 1890 he published a powerful novel, The Light that Failed

In the next 40 years, after he left India, Kipling was very busy, and the high quality of his work placed him in the forefront of English men of letters His books are on a great variety of subjects, but each displays his uniquely individual touch From Sca to Sca contains impressions of his travels His verses are in Barrack Room Ballads, The Seven Seas The Fire Nations and The Fears Bebreen

contains impressions of his travels. His verses are in Barrack Room Ballads, The Seven Seas The Fire Nations and The Years Between His two Jungle Books are remarkable productions, and with them may be mentioned Puck of Pook's Hull and Rewards and Fairles, both written for children

Volumes of short stories followed his early

ones Life's Handicap and Many Inventions are chicily Anglo-Indian in subject matter Later came The Day's Work, Traffics and Discoveries, Actions and Reactions, Debits and Credits A Diversity of Creatures and A Book of Words Stalky and Co relates the story of ble caboldays, Sea Workers dook in the proceed. his schooldays, Sea Warfare deals with episodes in the Great War, on which he wrote other volumes Kim a novel, and the Just So Stories are almost as good as his best work. He wrote also The History of the Irish Guards, and with C R L Fletcher A History of England. In 1930 he published Thy Servant a Dog, and in 1932 a new volume of stories Junits and Renewals In 1922 he was elected Rector of St. Andrews University, and delivered an address on Independence His many honours included the Nobel Prize for literature in 1907 He died in Jan, 1936, and was burled in Westminster Abbey

In 1892 he had married Caroline Balestier, and settled in Sussex. Their only son, John Lockwood Kipling, an officer in the Irish Guards, was killed in the Great War

Kipper Originally a male salmon, dried the word is now used

Tapper and cured The word is now used for a herring split open and smoked Kirghiz a district around the Sea of Aral and east of the boundary between Europe and Asia It is divided into Kara Kalpakia and Kirghizia The capital is Frunze It covers 95,000 sq m and its population is 997 500 The republic, which is federated to the union at Moscow, was created in 1927 The name is that of the Kirghiz, a Mongol people who have long lived in this part of Asia

Kirjath Hebrew word for "city" occur ring in soveral Biblical place Kirjath-jearim, the city of woods also called Kirjath-baal, is near Bethshemesh and was the resting place of the Ark of the Covenant was the resting place of the Ark of the Covenant before the Tomple was completed at Jerusalem (1 Sam vi, 1 Chr xiii) Kirjath-sannah and Kirjath-sopher were older names for the Canaanite town Debia, north of Beersheba (Josh xv) See Hebbon

Kirkburton Urban district of York Silve (WR) It is 5 m from Huddersfield, on the LMS Rly The chief industries are woollen mills and coal mines. Pop (1931) 3184

Kirkby in Ashfield Urban district hamshire It is a coal mining centre, on the L MS and L NL Rivs Pop (1931) 17,798 Adjoining is kirkby Bontinck, a new mining centre on the L MS line

Kirkby Lonsdale Market town and urban district of Westmorland It stands on the Lune, 12 m from Kendal, on the L MS Rly The bridge across the river dates from the 14th century. The town is the Lowton of Jane Lyre. Pop (1931) 1370

Kirkby Moorside Market town of (NR) It stands on the Dove 29 m from Whittie, on the LNE lily The town is an arricultural centre Pop 1695

Kirkby Stephen Market town of the stands on the river Lden, 10 m from Appleby, on the 1, MS Rh Agricultural fairs are held Pop Lato

Kirkcaldy Burgh scaport and market town of Fifeshire It stands

on the Firth of Forth, 26 m from Edinburgh, on the LNE Rly The chief street of the burgh is 4 m long and Kirkcaldy is known as the 'lang toun'" The industries include the manufacture of lineleum, olleloth and linen, there is also some shipping for which there are modern docks. Adam Smith was born here Pop (1931) 43,874

Kirkcudbright Burgh, seaport and Kirkeudbrightshire, also the county town It stands at the mouth of the Dee, 30 m from Dumfries on the L MS Rly A fine bridge crosses the Dee, and there is a good harbour on Kirkeudbright Bay Pop (1931) 2311

Kirkcudbrightshire Scotland of the is in the south west, covers 900 sq m, and has a long coast line on the Solway Firth Kirkoudbright is the county town, other places are Newton Stewart and Castle Douglas Most of the area is mountainous The Dec, Crce, Ken and Ure are the chief rivers and there are a number of locks and much picturesque scenery Agriculture is the principal industry The county was ruled by the great family of Douglas. who had a castle at Threave. Later the Kings of Scotland appointed a steward to look after it, and this post was held by the Maxwells until 1747 Hence it is sometimes called the 1747 Hence it is sometimes called the Stewartry It unites with Wigtownshire to send a member to Parliament Pop (1931) 30 341

Kirkdale Village of Yorkshire (WR) It is 8 m from Pickering There is a Saxon church In a cave discovered here in 1821 have been found the fossillage bones of the rhinoceros, and other animals extinct in Great Britain Another Kirkdale is a suburb of Liverpool

Kirke Percy English soldier Born about France After serving in 1681 4 at Tangler, of which for a time he was Governor, he raised a regiment (now the Rojal West Surreys) which fought at Sedgemoor, and in Ireland for William III The men were called Kirke's Lambs, because of the lamb on the regimental badge, and their cruelties after Sedgemoor made these lambs notorious Kirke died at Brussels in Oct . 1691

Kirkham Urban district and market town of Lancashire A cotton and flax manufacturing centre it is 8 m from Preston, on the L M S Riv Pop (1931) 4031

Another Kirkham is a village of Yorkshire to the Desyrent 15 m from York

(FR) It is on the Derwent, 16 m from York, on the LNE Rly The remains of an abbey, now public property, include the gatchouse and the cloisters

Kirkheaton Urban district of York shire (WR) It is 2 m from Huddersfield on the LMS Rly Woollen goods are manufactured Pop (1931) 2610

Kirkintilloch Burgh of Dumbarton-Glasgow and is served by the LNE Rly and a canal There are iron founding and chemical industries Pop (1931) 11,817

Kirk Kilisse Town of Greece In Turkey before 1918, it is 30 m from Edirne (Adranople, on the railway to Istanbul In Oct. 1912, during the first Balkan war, it was the scene of a decisive Pulgurian victory over the Turks

Kirkliston Town of Lindthgowshire It

Kirkoswald Village of Cumberland It is on the Eden, 15 m from Carlisle Another Kirkoswald, a village in Ayrshire, is associated with Burns and his Tam o' Shanter

Kirkstall Suburb of Leeds Here are the ruins of a famous 12th century Cistercian abbey The remains include the roofless church, chapter house, refectory and other buildings. Kirkstall is on the LMS RI

Kirkstone Pass in the Lake District It is between Red Screes and Caudale Moor, and is 1500 ft at the top

Kirkwall Burgh and scaport of the Orkney Islands, also the county town It stands on Mainland, or Pomona Pop (1931) 3517

Kirriemuir Burgh of Angus It is 8 m from Forfar, on the L M S Rly Its chief industry is weaving Sir J M Barrie was born hero, and it is the Thrums of his stories Pop (1931) 3326

Kirton Town of Lincolnshire It is 4 m from Boston, on the L.N E Rly

It is sometimes called Kirton-in-Holland, to distinguish it from Kirton-in-Lindsoy, which is also on the L.N.E. Rly, and 6 m from Brigg Pop 1600

Kish Ancient city in Mesopotamia It was a centre of Akkad culture and recent excavations have revealed a great temple and a comotery

Kishon River of Palestine It flows through the country to the Mediterranean Ser which it enters near Acre On its banks Sisera was defeated (Judges iv), and the prophets of Baal were killed by order of Elliah (1 Kings xvili)

Kismet Moslem term for fate, or destiny A play by Edward Knoblock (qv), is called Kismet

Kitchen Room in a house or hotel where food is prepared It is usually fitted with a range or cooking stove and has shelves, cupboards and other receptacles for crockery In many houses a scullery serves as an adjunct In large hotels the kitchens are streat rooms with elaborate fittings Some old kitchens with cooking implements of a bygone age, like that at Christ Church, Oxford, are very interesting In times of need municipal kitchens are opened, where food is supplied free or where noor persons can cook their own free or where poor persons can cook their own food

A kitchen garden is a garden where vegetables

and fruit are grown

A kitchen midden is the name given to
mounds of domestic refuse left by prehistoric
people Anthropologists and archaeologists

people Anthropologists and archaeologists have made valuable discoveries about early man by examining them

Kitchener City and river port of Ontario Formerly called Berlin, it is 62 m from Toronto, on the CNR, and CPR. The electric railways, trams and factories obtain their power from Niagara Furniture is made, sugar is refined and there are arricultural industries. Pon (1931) 30.793

the LNE Rly The little river Almond passes at Woolwich, he joined the Royal Engineers in it The chief industry is distilling and oil 1871 He volunteered to serve in France during mining Pop 3700 the war against Germany but saw no fighting Exploration Fund, and from 1878-82 he was surveying in Cyprus In 1882 he became an officer in the Egyptian army, and served in the campaigns in Egypt and the Sudan between that year and 1889, including the expedition for

the relief of Gordon
In 1892 Kitchener was made Sirdar Commander of the Egyptian Army, and in that capacity did a great work He reorganised the forces and was responsible for the successful expedition to Dongola in 1896, and the victories at the Atbara and Omdurman that destroyed the power of the Mahdi and restored Rhertum and the Sudan to British influence He was made a baron and granted £30,000 In Dec, 1899, Kitchener left Egypt to serve as chief of the staff to Lord Roberts in S. Africa He helped to change the fortunes of the struggle with the Boers, and, having succeeded Roberts as commander-in-chief, finished the war and assisted in making peace. He was then made a viscount and given £50,000 and the Order of Merit From 1902-09 he was commander-in chief in India, where he left his mark upon the organisation of the army

In 1911 Kitchener returned to Egypt, this time as agent and Consul-General, and he was time as agent and Consul-General, and he was holding that position in 1914, although he was temporarily in England On Aug 5, having been made an earl, he was appointed Secretary for War, and he set to work to raise the force known as Kitchener's Army In 1915, not altogether comfortable in his position (for, while seeing from the first the gravity of the outlook, he, like others, failed to grasp some of the essential and novel features of the tremendous struggle), he permitted some of his duties to be transferred to others and on June 5, 1916, he was sent on a mission to Russia On the same evening his ship, the Hampshire, was lost, some say she struck a mine, and Kitchener was unmarried and his titles and also his residence, Broome Park, Kent, passed

also his residence, Broome Park, Kent, passed to his elder brother, Henry Elliott Chevallier Kitchener (b 1846), whose eldest son, called

Kitchener (b 1840), whose eldest son, called Viscount Broome, died in 1928 There are various memorials to Kitchener, one being in St Paul's Cathedral, another on the Horse Guards Parade, London, and a third at Marwick Head, near where he was drowned Money raised by a national fund was devoted to founding scholarships of £150 a year These are to train young men for commercial life and were at first given to those who had served in the Great War

who had served in the Great war Kite Sub family of birds of prey, parti-kite Sub family of birds of prey, parti-cularly the common glede or red kite of Europe and N Africa This has reddish-brown plumage, but is now almost extinct in Britain It is about 24 in long and feeds on small birds and insects The black kite, a rare visitant, and the Egyptian and Indian parish kites are useful scavengers

Kittiwake Bird belonging to the gull with a yellow bill It is found chiefly in the sand CPR The electric railways, trams and factories obtain their power from Niagara Furniture is made, sugar is refined and there are arricultural industries Pop (1931) 30,793

Kitchener Earl English soldier Horatio Horbort Kitchener Horatio Horbort Kitchener Kitchener Of Lieut. Col H H Kitchener After a course of Lieut. Col tralts and A owent They are rare and noc turnal, brown in colour with a long beak and only rudimentary wings, laying very large eggs for their size, which is about that of the common fowl

Kleptomania Form of aberration ex hibited in an uncon trollable propensity to steal It sometimes attends epileptic insanity

Klerksdorp Town of the Transvanl, S Africa It is 29 m by railway from Potcheistroom, and is the oldest Boer settlement in the Transvaal A stream divides the old village from the new town Around the town are gold mines, and it is also an agricultural centre with important cattle markets Near are irrigation works Pop (1931) 3600 (Luropean)

Klip River of Natal, S Africa It rises in the Drakenberg Mountains and joins the Tugela near Ladysmith The district around Ladysmith is called the Klip River

district

Klipspringer Small variety of anto lope It is found in Africa, especially in rocky districts, and is an exceptionally good climber Its name means rock jumper

Klondyke River of the Yukon Terri Vukon near Dawson City In 1896 the dis-covery of gold in the Klondyke and its feedors caused much excitement. The district along the river is also called Klondyke

Klopstock Friedrich Gottlieb German July 2, 1724, he was educated for the Church at Jena and Leipzig Instead, however, of becoming a pastor he devoted himself to writing religious poetry. He lived at Copenhagen on a pension granted to him by the King of Denmark and died at Hamburg. March 14, 1803. Klon and died at Hamburg, March 14, 1803 Klop stock s great work, *Der Messias*, was begun in 1748 and finished in 1773

Kluck Alexander von German soldier Born May 20, 1846, he fought against Austria in 1866 and against France in 1870 71, being wounded at Metz In 1906 he 1870 71, being wounded at Metz In 1906 he became a general In 1914, when he was inspector general of the three army corps centred in Berlin, he was given command of the army that invaded Belgium He entered Brussels, won other victories and marched towards Paris He was attacked on the Marne and driven back to the Aisne, where his army entrunched itself In 1916 he retired, and in 1920 he issued a book translated into English as The March on Paris as The March on Paris

Knacker (Icelandie knal kr., a saddle)
Dealer who traffics in old or
disabled horses By Fnglish law a knacker must kill the horse delivered to him within two days He is forbidden to work any horse sent to him or to sell it alive, and he must keep a careful record in his books of the animals delivered to him. He must not kill any animal within sight of another animal waiting to be killed nor must he cut off any of its hair before it is killed

Knapweed (Centaurea mora) Peren nial plant of the order Compositae Found in waste places and on dry meadowland it is two or three feet in height with hairy stems and small rough leaves. The flower heads which resemble thisties, are bright purple in colour. It is sometimes known as the greater knapweed

Knaresborough Market town and urban district of Yorkshire (WR.) It is on the Nidd 4 m. from Harrogate on the LMS Riy The ruined castle is finely placed above the river Near the bridge are St. Poleckie Civer Near the bridge are St Robert's Chapel, an old shrine, and the Dropping Well St Robert's Well is associated with the crime of Eugene With the town Pop (1931) 5942

Knebworth Village of Hertfordshire It is 25 m. from London, on the LNE Rly Here is Knebworth House the seat of the Earl of Lytton The estate with its extensive grounds has been in the family since about 1500 The eldest son of the Earl of Lytton is called Viscount Knebworth

Knee Joint Joint in human beings and other animals. It is formed by the femur or thigh bone, the flattened top of the tibia or main bone of the lower leg, and the patella or knee cap Powerful muscles specially adapted to maintain man's erect attitude, permit of bending the knee and straightening the leg in a direct line, each movement being accompanied by a slight rotation The joint is surrounded by a system of strong ligaments, lined with a synovial membrane producing lubricating fluid Two internal ligaments cross between the two bony prominences at the end of the thigh-bone Dislocation of the joint is rare, but cartilages may be ruptured or displaced

Kneller Sir Godfrey English painter Born at Lubeck, Aug 8, 1646, he studied art in Italy and in 1676 settled in he studied art in Italy and in 1676 sottled in London He was appointed court painter by Charles II, and worked in England until his death Kneller painted portraits of the ladies of the court of Charles II and his successors to George I, also Louis XIV and Peter the Great He also painted Sir Isaac Newton, and the 48 members of the Kit Kat Club He was raighted in 1691 and died Oct 19, 1723 Kneller Hall, Twickenham, is the head quarters of the Royal Military School of Music

Music

Knickerbocker Surname, originally Knickerbacker, of a Dutch colonist in New York in the 17th century
From a prominent descendant Washington
Irving borrowed the pen name Diedrich
Knickerbecker when writing his buriesque
Ilustory of New York, 1809
Knight One who has received the honour
knights were members of an order, such as

knights were members of an order, such as the knights of the hospital of S John and he Knights Templars Others were made knights by the king or other high personage, usually for deeds of valour The custom grew up of addressing a knight as sir before his Christian name and this is the usual title of all knights unless, as with some members of the great orders of knighthood they hold a higher one There are ten classes of knights, all being

created by the sovereign Three belong to the great orders of knighthood garter, thistie and Patrick, but most of these are peers Six other orders, Bath, Star of India, S. Michael and S George, Indian Empire, Royal Victorian Order and Order of the British Fmpire, consist of knights and members of lower rank such as commanders and companions The knights are called sir and use the letters G C M G , K C B , K B L , or others indicating the order and rank. The equivalent of knight in the orders that admit women to

order of S John of Jerusalem and the Primrose League

Knight Charles English publisher The Knight Charles English publisher The was born at Windsor, March 15, 1791, and joined his father in business In 1811 they founded a local newspaper which Knight edited until 1821 In 1822 he moved to London and became a publisher He started Knight's Quarterly Magazine, but is better known for the cheap literature he issued such as The Penny Magazine and The Penny Cyclopaedia He worked in association with the Society for the Diffusion of Useful Knowledge and became publisher of The London Gazetie Knight was also an author and wrote A Popular History of England in eight volumes, lives of Shakespeare and Caxton, and the autobiographical Passages of a Working Life He died at Addlestone, March 9, 1873

Knight Dame Laura. English artist. A daughter of Charles Johnson of Nottingham, she studied art first at Nottingham and later at S Kensington In 1903 she married a portrait painter, Harold Knight, and in the same year first exhibited at the Royal Academy She was elected A R.A. in 1927, and in 1929 was made a D B E Her pictures deal chiefly with theatrical subjects and circus life, of which she has made a special study

which she has made a special study

Knighthood Social and military Europe in the Middle Ages Men were made knights in various ways, one of the most usual being by a religious ceremony which included a vigil before an altar prior to taking vows Others were made knights for gallantry on the field of battle

The knights formed a distinct class They fought on horseback and in armour, and were the landowners and aristocrats of their day. The system began to decay about 1300 and came to an end a century or so later. The orders of knighthood, however, still survive in England and other monarchical countries and the honour of knighthood is still conferred by sovereigns. The senior order is

countries and the honour of knighthood is still conferred by sovereigns. The senior order is the Order of the Garter. The Order of the Golden Fleece, which had an Austrian and a Spanish branch, was the greatest of the European orders of knighthood.

Knightlow Hill in Warwickshire. Here every year on Nov 11, representatives of the parishes in the hundred of Knightlow meet. They stand round a hollow stone on the hill and into this throw the money due from them to the lord of the hundred. The due from them to the lord of the hundred The steward of the Duke of Buccleuch calls them together and presides over the proceedings

Knighton Market town and urban district of Radnorshire It is on the River Teme, 195 m from London, on the L M S Rly Pop (1931) 1836
Another Knighton is a suburb of Leicester

Knightsbridge Thoroughfare in London It runs

membership is dame of knights bachelor. They belong to no order, but have a society of their own at 21 Old but hav Knight's Fee (or Knight-service). holder of which in feudal times was responsible for sending knights to serve the king in time of war The obligation varied from time to time, and the relief paid on inheriting one of these fees was 100 shillings

Knights Templars Mediaeval order It was founded at Jerusalem about 1118 to protect pilgrims to the Holy Sepulchre It was given a home in Jerusalem in a palace called Solomon's Temple

called Solomon's Temple

The order soon became rich and powerful
Its head was the Grand Master and it was
divided into commanderies, each under a
governor or master The members were both
monks and soldiers and took the vows of
chastity, poverty and obedience About 1300
it had 15,000 members and owned a great deal
of property The order was very active during
the crusading period and fought also against
the Moors It was suppressed in 1312 by the
Pope

Pope
The Templars wore a white mantle with a red cross Their banner was called beauseant, and their motto Non nobis, Domine, non nobis, sed Nomini Tuo da gloriam The seal showed

two knights riding one horse

Knoblock Edward English dramatist Born in New York, April 7, 1874, Edward Knoblauch was educated at Harvard In 1911 he achieved a notable success in London with his play Kismet Another success was Milestones, 1912, which, like London Life, 1894, he produced in association with Arnold Bennett In 1931, with J B Priestley, he dramatised The Good Companions In 1916 he was naturalised in England and changed the spelling of his name

Knockaloe Place in the Isle of Man It is south of Peel and here, during the Great War, was a large internment camp for German civilians

Knock-knee Deformity in which, when the lower limbs are straightened, the knees close inwards and the legs diverge It may be due to rickets in young children, and is sometimes remediable by resting in bed, or using splints, or by surgical operation It may also arise from excessive standing or weight-carrying when

Knockmealdown Range of hills in the Irish Free State It is on the borders of Tipperary and Waterford The highest point is 2600 ft.

Knole Residence of Lord Sackville It is a large park It contains some magnificent rooms and priceless works of art It was at one time a residence of the Archbishops of Canterbury and of the Earls and Dukes of Dorset (q r )

Knollys Name of a notable English It is descended from Sir Francis Knollys, Lord Mayor of London in the 15th century. Francis Knollys, a member of this family, was born July 16, 1837 He became a court official under Queen Victoria, private secretary to the Prince of Wales, afterwards Edward VII, and was private secretary to George V until 1913, when he resigned

Knighted in 1886, he was made a baron in 1903, and a viscount in 1911 He died Aug 15, 1924

Knot Nautical measure of speed A vessel is said to travel so many knots, this meaning a certain distance per hour A nautical mile is 6080 ft, so if a ship travels 60,800 ft in an hour, she travels at 10 knots In former times the record was kept by tying knots in a

piece of rope

Another kind of knot is a fastening together of two pieces of rope or string. In addition to the ordinary knot, claborate kinds are used by sallors and studied by Boy Scouts. These include the clove hitch and the reef knot, the latter being the simple knot tied a second time Others are the gramy knot, the bowline knot, the timber hitch and the blackwall hitch.

A third kind of knot is a portion of wood harder than the rest, found sometimes in tree

trunks

Knot Wading bird of the plover family and piper it breeds in the Arctic regions and visits Britain in autumn and winter, haunting marshy flats for molluses It was fattened for the table in England in Tudor times Its average length is about 10 in

Knottingley Urban district of York from Pontefract on the River Aire, on the LMS Rly It is a river port on the Aire and Calder navigation system, and has some manufactures Pop (1931) 6842

Knout Form of whip once used in and political prisoners It consisted of tri angular thongs of hardened leather interwoven with wire and bound together Applied to the naked fiesh it produced terrible wounds, and the results were often fatal Its use was abolished by the Tsar Mcholas I

Knowlton Village of Kent. It is 9 m result of a newspaper competition Knowlton was awarded the prize for sending, voluntarily, the highest proportion of its male inhabitants to the Great War A granite cross records this fact

Knowsley Residence of the Earl of Derby It is 8 m from Liverpool It is a large house standing in a park of 2500 acres and most of it dates from about 1700 The picture galiery is especially fine The estate came to the Stanleys when, in the 14th century, one of them married the heiress of the Lathoms In 1931 the Larl of Derby sold 1700 acres of the estate to the Corporation of Liverpool for housing purposes

Knox John Scottish reformer He was born near Haddington about 1515 and attended one of the Scottish universities, probably St Andrews When a priest and tutor in a nobleman's family his friendship with George Wishart led him to join the reformers just after the murder of Cardinal Berton in 1546 He was taken prisoner by the French when they captured the castle of St. Andrews, and was for a time a galley slave in Feb 1549, he was released, at the instance of Edward VI, and during that king's reign he lived in England He was offered the Bishoppric of Rochester made a royal chaplain and assisted in the preparation of the articles in

the Prayer Book
In 1553 Edward died and Knox went to
Dieppe and then to Geneva where, as at
Frankfort and eleewhere, he made a name as
a pracher He returned definitely to Scotland

in 1558 The reformers were then in a position of power, and Knox, full of the teaching of Calvin, was soon their leading spirit. He won many adherents by his preaching, but was equally zealous as a politician He made a treaty with England, now under Elizabeth, gained for himself and his friends the direction of affairs and proceeded to make Protestantism the religion of the country

In 1561 the young Queen Mary returned to Scotland and fuickly roused the anger of Knox, who, however retained a good deal of power When Mary fied to England, Knox and his riends were again dominant, but the murder of the Earl of Moray in 1570 was a great blow to them Knox went to St Andrews to be among his friends, but returned to Edinburgh to preach once more in St Giles He died ther.

Nov 24, 1572

Knox was twice married once to Marjory Bowen and secondly to Margard Stewart. His chief book is his History of the Reformation in Scotland. In 1558 at Geneva he wrote The First Blast of the Trumpet Against the Monstrous Regiment of Women. Knox was intolerant and a fanatic, but he has left his mark for good on Scotland, the educational system of which owes much to the ideas of his Book of Discipline.

Knox Ropald Arbuthnott. English writer brilliant sons of Rev E A Knox, Sanskrit scholar and in 1903 21 Bishop of Man chester, he was educated at Eton and Balliol Colloge, Oxford, whore he had a fine career He became fellow and lecturer at Trinity College, and, having joined the Roman Catholic Church, was later made chaplain to the Roman Catholic students in the University Father Knox has written a good deal of fletion as well as more serious works His books include The Viaduct Murder, Essays in Salire, Caliban in Grub Street, and The Belief of Catholics Knox's eldest brother, Edmund George Valpy

Knox (born 1881) was educated at Rugby and Corpus Christi College, Oxford He joined the staff of Punch, and as Evoe became known for his humorous writings, many of which have appeared in book form as Fancy Now, It Occurs to He Here's Miscry and The Other Eden. In 1933 he succeeded Sir Owon seaman as Editor

of Punch

Knucklebones Game very popular the forerunner of dice games At first played with the knuckle bones of sheep, which were thrown and caught on the back of the hand, it is now played with stones

Knur and Spell English ball game of mediaeval origin. It requires a knur or small ball, a steel springed trap or spell, and a stick. The stick, called the pommel, is about 4 ft long with a flexible handle and a head of hardwood. The spring makes the ball rise, whereupon the player hits it with the stick as hard as he can The longest drive wins.

Knutsford Market town and urban district of Cheshire It is from Manchester on the Cheshire Lines Rly Knutsford is known in fiction as Cran ford, and Mrs. Gaskell, the authores of that work, who lived here for many years and died here, was buried in the old Unitarian Grave yard The name is taken from King Canute Pop (1931) 5878

Knutsford Viscount. English title borne by the family of Holland. Henry Thurstan Holland, a son of a physician.

Sir Henry Holland, was born Aug 3, 1825 He 1914, a battle was fought along its banks went to Harrow and Trinity College, Cambridge between the Austrians, who had invaded and became a barrister Having been for some Scrbia, and the Serbians It lasted nearly a rear in the Colonial Office, he sat in the House of Common from 1874 until 1888 In 1885 he driven out was Financial Secretary to the Treasury, in 1886 Vice-President of the Council, and in 1888-92 Secretary for the Colonies He was made a baron in 1888, and a viscount in 1895 He died Jan 29, 1914

Knutsford's son and successor, Sydney Holland, the 2nd viscount, was best known for his splendid work for the London hospitals He was chairman of the London Hospital and devoted his life to collecting funds for its support He died July 27, 1931, and was succeeded by his brother, Arthur Henry Holland-Hibbert (born 1855), of Munden, Walford, as 3rd viscount.

Koala (Phascolarcius cinereus) Native name of a marsupial mammal Found only in Australia, it is stout and clumsy, tailless, with ashv-grey fur and tufted ears Living in encalyptus trees, it feeds on their leaves and tender shoots, occasionally digging for roots, which it stores in its cheek pouches Its average length is about 2 ft.

Kobe City and seaport of Japan Sometimes called Hyogo, it is 22 m from Osala, on the west coast of the Inland Sea. There is a good deal of shipping and the industries include shipbuilding The city was founded in 1868 and a fine harbour has been built Pop (1931) 787,616

Koch Robert German scientist. Born Dec 11, 1843, he was educated at the University of Göttingen, and became a doctor He practised at Hanover, but soon gave his time chiefly to research work, being,

gave his time chiefly to research work, being, in 1880, made a member of the Imperial Board of Health in Berlin. In 1882 he discovered the bacillus of tuberculosis, and a little later the bacilli of cholera and phthisis In 1885 he was made Professor at Berlin University, and Director of the Institute of Hygiene, and in 1891 Director of the Institute for Infectious Diseases Later he spent much time in S Africa in researches into cattle diseases Tuberculin, or the lymph cure for tuberculosis, was another of Koch's discoveries On these he wrote several books. In 1905 he received the Nobel prize for medicine, and he died May 28, 1910

Koh-1-nur Name given to a famous diamond Said to have been found at Golconda, India, it originally weighed 186 carats Formerly in the possession of the Mogul emperors and the later Indian princes, in 1849 it was presented to Queen Victoria, was recut to 106 carats, and now forms one of the

British crown jewels

Kohl Powder used in Egypt for darkening the eyes It was used by Jezebel It was used by Jezebel (2 Kings ix.)

Kokra Timber obtained from a tree in Burma called Aporosa dionca It is very hard and is used for musical and scientific

instruments.

Kola Nut of an African tree, also called gum It is about the size of a walnut and is very bitter to the taste It contains a good deal of caffeine and the natives eat it as a stimulant. The tree on which it grows is an evergreen, sometimes 40 ft. high, and bearing pale-yellow flowers

Komati River of S Africa. It rises in the Transyan and flows through Swaziland and Mozambique to Delagoa Bav Its chief tributary is the Crocodile and where the two unite is the village of Komati Poort. This is 58 m from Lourenço Marques

Third, or Com-Komintern munist, International. It is the international organisation of the Communist party of all nations, and was founded in March, 1919 Its chief purpose is to hasten world revolution, and it rejects parliamentarism as a means to this end It is an association bound together by a common programme and principles It organises "cells," which work in different places, to the common end, and are subordinated to the party as a whole

Konia City of Turkey It is in Asia Minor about 300 m from Izmir (Smyrna) There are manufactures of carpets and silks, a considerable trade in agricultural uce The name is sometimes spelled ich Pop 47,495 produce Konieh

Koniggratz (or Kralové Hradeo)

Koniggratz (or Kralové Hradeo)

Grechoslovakia.

It is 14 m from Prague. Near is the village of Sadowa, after which the Germans called the battle in which they routed the Austrians in Pop 13,100

Konigsberg City and river port of Germany and chief town of E Prussia. It stands near the mouth of the Pregel, 366 m from Berlin. The university is an old foundation, but has fine modern buildings, among them an observatory and a library. The castle is imposing

library The castle is imposing
There are large modern docks and the
Industries include shipbuilding, the manufacture of machinery and chemicals, and the
preparation of foodstuffs The city, which is a
railway centre, was founded by the Teutonic
Order and later was the capital of the Dukes of
Prussia. It has a broadcasting station (217 M.,
0.5 kW) Pop 280,000
The Königeberg was the name of a German

The Königsberg was the name of a German cruiser destroyed in the Rufiji River, E Africa, in July, 1915

Koodoo African antelope, Strepsiceros Tawny with vertical white stripes on the sides and reaching 5 ft at the shoulder, it is exceeded in size only by the eland, to which it is allled The horns, present only in the male, are spirally twisted

Kootenay River and lake of N America The river rises in Canada in the Rocky Mountains, but part of its course is in the United States. Entering Canada again it passes through Kootenay Lake to the Columbia river It is 400 m long Kootenay Lake is in the south-east of British Columbia. It is 60 m. long and covers 220 sq m. Kootenay is also the name of a pass across the Rocky mountains. This is between the provinces of Alberta and British Columbia, just north of the international boundary

just north of the international boundary

Kopeck Russian coin It is the hundredth part of a rouble, or nominally something less than a halfpenny

pale-yellow flowers

Kolubara River of Yugoslavia. It Kopenick Town of Prussia It is on Kolubara River of Yugoslavia. It rises near Valleyo and flows from Berlin. Pop 31,000 mainly north to the Save. In Nov. and Dec., The Captain of Kopenick was a cobbler.

Wilhelm Voigt. In Oct, 1906, he dressed himfor the army He fought for the Boers in S self as an army officer, and with an imposing Africa, 1899 05, and served against Japan in guard, pretended he had come on important 1904 05 During the Great War he saw service guard, pretended he had come on important business to the burgomaster He thus obtained a good deal of money, but was soon arrested Ho died in 1918

Dutch name for the flat round topped elevations that are Kopje scattered over the tablelands of S Africa the Great Karroo and elsewhere compact lava sheets of geological age have been weathered and fretted into hillocks up to 100 ft high They greatly influenced operations in the 8 African War, 1899 1902

The Sacred book of the Moham Koran medans It claims to be a divine revelation, communicated through the angel Gabriel at intervals over 23 years to the Prophet Mahomet At his dictation various scribes wrote them down on scattered fragments of parchment stone, palm ribs and other materials. These were traditionally collected by Zaid at the behest of Mahomet's successor, Abu Bekr, and a definite text was afterwards prepared for the Caliph Othman Islam's supreme authority on matters of faith, morals and law, the Koran is a rhymed prose rhapsody of 6000 verses It is divided into 114 suras, and opens with the Fattya, the prayer repeated five times daily by all devout Moslems

District of Asia, also called Chosen A peninsula on the main land it was formally annexed by Japan in 1910 It is 600 m long and covers over 85 200 sq m Its northern boundaries are Fong Tien and Manchuria on the west is the Yellow Sea, on the east the Sea of Japan It includes over 1000 islands The land is forested and mountainous, and the rivers are short and rarely navigable Seoul, or Keigo fu, is the capital other large towns are Fuan fu, Heigo fu (the old capital) and Talkyu fu Seoul, Chemulpo, Fusan and Gensan are four of several open ports

Rice, barley, wheat, beans, tobacco and cotton are grown and cattle are reared Gold iron ore and coal are mined to a slight extent fishing is carried on and truit is grown There is a railway system and there are many good roads. The Central Bank is the bank of Chosen

the chief coin is the yen

The Koreans are physically a fine race with a culture of their own Their language inter mediate between Mongol, Tartar and Japanese, contains many Chinese words, and their written language is a mixture of Chinese and

native characters

HISTORY Korea, whose troubled history goes back 1000 years BC, was an independent kingdom in the 10th century. Its rulers were called emperors until late in the 19th century, for a great part of which the country was the victim of much unrest. After the devastating invasion of the Japanese in 1592 98 until recent times it was nominally under Chinese suzerainty This was ended by the Chino Japanese War of 1894 5, by which time the Japanese had important trading interests in the peninsula After the Russo Japanese War of 1904 5 Kore; was virtually a Japanese protectorate until it was formally annexed by Japan in 1910 when a Governor General was appointed and members of the Koren imperial house were given Japanese patents of nobility. Since then its material prosperity has increased considerably The name is also spelled Corea Pop 21,058,105

Korniloff Lavr Georgievitch Russian born in

and was taken prisoner, but he quickly escaped and as leader of an army took part in the offensive of July, 1917, winning a notable victory over the Austrians. He was then put in charge of all the Russian armies, but quarrels soon broke out between him and Kerensky He then formed an army in the south of Russia and fought against the Bolsheviks until he was

killed in the Caucasus, March 31, 1918
KOSC1USKO Mountain of New South
Wales, the highest in
Australia It is in the Australian Alps and

reaches 7328 ft.

Tadousz soldier Kosciusko Tadeusz Polish soldier Lithuania, Feb 12, 1746, he became a soldier and served in the Polish French Army He fought for the American colonists against Great Britain, and then led the Poles against the Russians Following the partition of 1794, he set up a government in Warsaw, but after one or two victories, was defeated by both Prussians and the Russians He was taken prisoner, but was set free in 1796, and lived in Switzerland On Oct 15, 1817, he was killed by his horse falling over a precipice at Soleure

Jewish word denoting food or Kosher Clean by Talmudic ritual As Jews are forbidden to swallow blood, beasts are killed for them by their own butchers who sharply sever the windpipe The meat is soaked in water, salted

and washed thrice

Kossovo District of Yugoslavia A plain about 50 m long, it is near the frontier of Albania The name means

the field of blackbirds

In 1389 the sultan, Murad I, defeated the Serbs here, and in 1448 Murad II defeated the Hungarians under Janos Hunyadi There was fighting here during the Balkan War In Nov-1915, the Serbian armies gathered to resist the advance of the Germans After some hard fighting they were compelled to retreat Many perisbed in the cold, but others were rescued by Allied help, and taken to Corfu

Kossuth Lajos (Louis) Hungarian leader Born Sept 19, 1802, be was educated at Budapest and became a lawver In 1832 he was elected a member of the diet at Presburg, and was soon prominent among the advocates of political and social reform For expressing his opinions in a paper he edited he passed three years in prison Seven years later, in 1847, he became a member of the diet of Hungary, and in 1848 was the recognised leader of the party that demanded independence for the country. His energy raised a national force, and the dict declared for independence with himself as governor, or dictator The movement failed partly because foreign countries would not assist and in 1849 Kossuth resigned his office and went to Turkey

For the rest of his days Kossuth was an ror the rest of his days Rossuth was an exile in England where he was received as a hero His Memours of My Exile is an English translation of one of his books He died in Turin, March 20, 1894 Ho had refused the offer of pardon and had lost his nationality, but his body was taken to Buda for burial

Kossuth's son, Ferencz Kossuth (1841 1914), as a prominent politician in Hungary from 1895 until his death

Koumiss Drink made from the milk of the mare and the camel Siberia the son of a Cossack, and was trained Obtained by allowing the milk to ferment, it

is drunk by the Tartars and other Aslatic; peoples It has an acid taste, but is serviceable as a diurctic and for other purposes in medicine It can be made from cow's milk

KOVNO City of Lithuania, also called Kovno Kaunas It is on the Niemen, 60 m from Vilna, and is the capital of the republic pending the recovery of Vilna, which is also claimed by Poland The city has a number of manufactures, does a considerable trade in grain, etc., and is an important rallway junction. There is a large Jewish element in the population Population Population tion Pop 113,000

Kowloon Peninsula in China near Hong Kong It was coded to Britain in 1860 and is part of the colony At one time there was here a large city of which only the walls remain Near its site a new town has been built

Kraal Collection of huts around a cattle enclosure It is sometimes stockaded with timber fonces or mud walls. Kraals are built by the Kaffirs and Hottentots and the word is also used for similar villages in E Africa, and sometimes for enclosures for animals

Krakatoa Volcanic island in the Strait of Sunda Midway between Sumatra and Java, it covers 18 sq m. In 1833 an eruption here destroyed 35,000 lives, did great damage and set up world-wide disturbances Two-thirds of the island disappeared Kraken Fabulous sea monster of Scandinavian legend Supposed to be of enormous size, it has been likened by an old Norwegian writer to an island appearing in the water with arm-like appendages resembling those of an octopus It is the subject of one of Tennyson's early poems

Kran
Persian coin It has been replaced as the unit of currency by the rial, which is equivalent in value It is still in circulation, however, and is worth about 4d

Krassin Leonid Borisovitch Russian revolutionary Born in 1870, he entered business life, but becoming associated with the extremists was, for a time, an exile He had returned to Russia when the revolution ne ma recurred to Russia when the revolution began in 1917, and as one of its leaders he helped to arrange the Treaty of Brest-Litovsk, and became a minister in the new government. In 1920, and again in 1921, he was sent on a trade mission to England, and he represented the Soviet Government in London in 1925-26. He died in London, Nov 24, 1926.

Kreisler Fritz Austrian violinist Born in Vienna, Feb 2, 1875, he studied in Vienna and Paris, and soon showed exceptional powers. He toured the United States in 1889, and first appeared in London in 1803. He sowred in the victime of the control He served in the Austrian Army during freat War and was wounded He has the Great War and was wounded He has since made several appearances in London, being regarded as the world's greatest violinist In 1929 he received the honorary degree of LL D from Glasgow University

Kremlin Russian word for a citadel The most famous is the kremlin at Moscow It stands on a hill overlooking the river Moskva, covers about 100 acres, and is surrounded by a wall Kriemhild Figure in German legend A sister of the King of Burgundy, she married Siegfried, King of the Nibelungs Siegfried was murdered by Hagen and Kriemhild married the King of the Huns Her life, thenceforward was devoted to Her life, thenceforward was devoted to vengeance She gave a feast to Hagen and

others, this was followed by a fight in which many were killed After the struggle she killed Hagen with Siegfried's sword, and was then Miled by Hildebrand The story is told in the Niebelungenlied, and figures in Wagner's opera sequence Der Ring des Nibelungen

Kris Dagger used by the Malays It has usually a sinuous blade The handle is commonly of wood, but some examples are of ivory, with a decorated scabbard

Krishna Hindu delty. A chieftain in the Krishna Mahabharata, he later became Vishnu's eighth avatar or incarnation His popularity throughout N India is based on legends, which make him a cowherd lad associated with his favourite mistress Radha Nerelly pointed blue he is represented as Usually painted blue, he is represented as standing on a snake, sometimes playing a flute, and with four hands

Krithia Village of Gallipoli It is about peninsula, and was the scene of severe fighting in 1915. It was attacked by the British on April 28, but the Turkish defences were too strong for them to reach it On May 6-8 there was a further attack which also failed, but on June 4, a third attack resulted in the gain of a good deal of ground Another attack, also partially successful, took place on June 28 A further effort to advance was made in August and on Nov 15 the Turkish positions were assailed for the last time, successfully, but in the following January Gallipoli was evacuated

Krone Monetary unit of Norway, Sweden, means crown It is worth about 1s 14d and normally 18 go to the £ sterling It is divided into 100 ore Before 1925 the krone was the monetary unit of Austria and was also used in Hungary

Kronstadt Seaport of Soviet Russia It kronstadt stands on an island at the mouth of the Neva, 20 m from Leningrad It was founded in 1703 as a harbour for the Russian capital, and before the Great War was a nearly challenger than the Great War was a naval station, strongly fortified A canal links it with Leningrad The dockyard is maintained by the Government Pop 21,000

Kronstadt City of Rumania, now known as Brasso or Brasov Beautifully situated at the foot of the Transvivanian Alps, it was until 1919 in Hungary The inner town has remains of 16th century fortifications. It is now a banking centre, and has oil refineries and cement works

Pop (1930) 56,234

Kroonstad

Town of the Orange Free

Kroonstad Kroonstau State It is 129 m from Bloemfontein and is an important railway junction It is the centre of an agricultural district Pop (1931) 5639 (European)

Kropotkin Peter Alexeivich, Prince Russian geographer, author and revolutionary Born at Moscow, Dec 9, 1842 he entered the Corps of Pages at St Petersburg in 1857 and in 1862 went with a Siberian Cossack regiment to Siberia, where he carried out two geographical survovs In 1871 he explored the glacial deposits of Finland and Sweden, and in 1872 he visited Switzerand Sweden, and in 1872 he visited Switzer-land Later, becoming an anarchist, he spread nihilist propaganda on his return to Russia. He was several times arrested in Europe, but escaped to England, and settled there, 1883-1917, when he returned to Russia Feb 8 1921 He died

Kru Negro people along the coastland of Negro people They live in scattered

tattooing and tooth mutilation They number over 40,000

Kruger Stephanus Boer politi Johannes Paulus berg in Cape Colony, Oct. 10, 1825, he went as a boy into the Transvaal and settled there In 1880 he was a leader in the revolt against British annexation, and was the active spirit of the provisional government during the war of 1880 81 In 1883 he was elected President, an office he still held when difficulties arose between Great Britain and the Transvaal in 1899 Stubbornly hostile to concessions of any kind, he must bear some of the responsibility for the war that followed. In 1900 he went to the Netherlands, but he was in Switzerland when he died, July 14, 1904 In 1902 he wrote a volume of memoirs Kruger combined a hard and narrow religious creed with much political subtlety

Krugersdorp Town of the Transvaal at the western end of the Rand, it is 20 m from Johannesburg Pop (1931) 13,653 (European)

Krupp German family Friedrich Krupp, born in 1787, started in business at Essen as a maker of iron and steel in 1812 Ho died in 1826, and the business was conducted by his son Alfred Homes in 1812 by his son Alfred He made it a very successful concern and when he died, July 14, 1887, left it to his son Friedrich Alfred Krupp He died Nov 22, 1902, leaving an only daughter, Bertha who married Gustav von Bohlen und Halbach

The Krupp works made railway material on a large scale, but were best known as armament works Guns, ammunition, armour plate and other war material were turned out in immense quantities before the Great War The firm had branches at Annen and elsewhere, and ship building yards at Kiel. Something like 80,000 men were employed, and for them there were welfare organisations on an elaborate scale After the Great War the works were devoted to the making of electrical agricultural and other kinds of machinery, as well as railway plant.

Krypton Very rare element having the symbol Kr and atomic weight 82 92 It occurs in extremely minute quantities in the atmosphere and has been found in varied gases given off from the waters of mineral springs. It is distinguished by the bright vellow and green lines in its spectrum

Kubelik Jan Bohemian violinist. Born larned to play from his father, a market gardener In 1898 he made his debut in Vienna and tours in Europe and the United States made him one of the leading violinists of the day He married the Countess Czaky Szell

Kublaı Khan Mongol Emperor of about 1216 the grandson of Jenghiz Khan. In 1259 he became grand kin of the Mongols His great work was the conquest of China which occupied him some 20 years He then became head of a great Mongol Empire with his capital at Peking where he held a splendid court Under him Buddhism became the State n ligion His empire lasted only until 1368 Kubla Khan was the patron of Marco Polo, and Coleridge wrote a fragmentary poem on him.

Liberia They display an aptitude for sea faring which has led to their contracting as Kusah Willage of Iraq It is 90 m to the four boys for service on vessels navigating the caliphs lived before moving to Bagdad. It Guinea coast. They practise face marking, gives its ham to a script used for the earliest of the country and total multistion. copies of the Koran

> Kufra Group of cases in Libya. They are the headquarters of the Senussi Caravan routes go across the desert, but few Europeans have visited the district.

> Ku Klux Klan American secret was founded in Tennessee in 1865 and developed into an elaborate and organised movement. Its aims were to maintain the purity and dominance of the white race against the negro, and it was soon very strong in the southern states. The head was the grand wizard, other states. The head was the grand wlzard, other officials were grand dragons grand giants and grand titans, overy member was a ghoul Terrorism was freely employed. In 1871-72 laws were passed forbidding these secret societies and after a time the Ku Klux Klan disappeared in 1915 the society was revived in Georgia. Its aims were practically the same, the dominance of the white, or what was called 100 per cent Americanism Its influence was also directed against Roman Catholicism

> Kumanovo Town of Yugoslavia. It oct., 1912, the Serblans gained a great victory over the Turks here, the fighting occupying three days. During the Great War the town was taken by the Bulgars in Oct, 1915, and was not regained by the Serbs until Sept., 1918

Kumasi Chief town of Ashanti, some times spelled Coomassie It is 160 m from Sekondi on the coast Pop (1931) 36 284
In 1874 British troops entered Kumasi and

destroyed a good part of the town Another expedition was sent against it in 1896, when a British resident was installed In 1900 the British in the town were attacked by the tribesmen, but hold out from March till July when they were relieved by a force which mot with stubborn resistance See ASHANTI

Kummel Name of a popular liqueur It is made of sweetened spirit flavoured with cumin and caraway seed The name is the German word for cumin

Kun Bela Hungarian agitator of Jewish extraction Born in 1886 he became a lawyer and a journalist After the Great War, in which he served, he set up a Bolshevist republic in Hungary This only lasted for a few months He then went to Russia, but was again agitating in Hungary in 1927.

Kuomintang Political party of the followers of Sun Yat Sen and stands for a policy of China for the Chinese It became prominent in 1927, its strength being chiefly in the south of the country

Kurd People of mixed stock inhabiting the region loosely called Kurdistan This is now divided among Turkey, Persia and Iraq the Kurdish population being about 1.500,000 Descended from the Carduchi who opposed Xenophon's retreat in 400 nc, they are partly settled partly nomadic. They are mainly Mohammedans

Kurdistan District of Asia Minor It is part of the Turkish republic and its chief town is Diarbekr It lies to the south of Armenia and has the Euphrates

They belong to Great Britain and cover about 22 sq m They are about 750 m from Aden and on them guano is found The islands, which serve as a landing place for the Red Sca cable, are peopled by a few Arabs They are under the control of the Persian Gulf Residency.

Kurile Group of 31 islands off the coast of Japan Their Japanese name is Chishima and the inhabitants are chiefly fisherfolk They extend for 150 m, almost to

Kamchatka. Area, 3969 sq m Pop 5000

Kuroki Count Tamesada Japanese
the army and won a reputation during the war
with China In 1904 he was given command of an army and he led this to victory over the Russains at the battles of the Yalu and Mukden He died Feb 4, 1923

Kuropatkin Alexel Nikolaievitch Russian soldier Born in 1848, he became an officer and gained experience with the French army in Algeria Alexei Nikolaievitch Russian soldier Born experience with the French army in Algeria in 1874. He held a staff appointment in the Russo-Turkish war of 1877-78 and added to his reputation by exploits in Turkistan and Caucasia. In 1898 he became Minister for War and in 1904 was chosen to command the forces and in 1904 was enosen to command the forces against Japan After the Russian defeat at Mulden he was superseded, but was given another command. He was put in command of a group of armies during the Great War and in 1916 went as governor to Turkistan. Later he was arrested and on Feb 10, 1921, he died

iden in other commangeroup of armies included by the river Tigris It was rebunded by the river Division and fell back on Kuth in Nove that the river Division and fell back on Kuth in Nove that the river Division and fell back on Kuth in Nove Tigris It was fortified and was soon surrounded by Turkish troops Between Jan. and April, 1916, several attempts to relieve Kut were made, but falled, and on April 29 when the force was at starvation point, 9000 troops, 6000 being Indians, surrendered In Jan, 1917, new forces having been collected and put under Sir Stanley Maude, the campaign for its recovery was begun. There was some hard wellby the British is recovery was begun. There was some hard wellby the British with of the river and the river of the Persian Gulff with or State of Arabia It is on the the control of the river the river the river that the river the hard of Ross, and Coleridge praised him The Man of Ross, and Coleridge praised him for peeper the defent work. Pope, who first called him The Man of Ross, and Coleridge praised him for peeper the defent work. Pope, who first called him The Man of Ross, and Coleridge praised him for peeper the defent work. Pope, who first called him for peeper the defent work of India.

on the west. It is inhabited chiefly by nomads The boundaries have never been clearly defined Kuria Muria Group of five islands Kuria Muria of the coast of Arabia mercially and in the home.

Mercially and in the home.

Kyd Thomas English dramatist Born in London in 1558, he was educated at Merchant Taylors' School His first play, The Spanish Tragedy (1584-89), was popular for many years He later became friendly with Marlowe, and was arrested with him for "blasphemies" and imprisoned until after Marlowe's death, when his patron forsook him He died in poverty in 1594 The Spanish Tragedy was long the best-known play in Europe, and was played as a stock piece in Germany and Holland until the eighteenth century He also wrote Solumar and Perseda (1588) and Cornelia (1593-94) (1588) and Cornelia (1593-94)

Kyle District of Ayrshire It lies between the rivers Doon and Irvine and is one of the districts into which the county was at one time divided

Kylemore Lake or lough of Co Galway, Irish Free State It is in the NW of the county, not far from Letterfrack, in the midst of magnificent scenery There is Kylemore Castle, once a seat of the Duke of Manchester, a fine building decorated with Connemara marble

Kyles of Bute Sea channel of Scot-16 m long, between the county of Argyll and the Island of Bute It is famous for the scenery along its shores

AAGER In South Africa a pro tected camp It is made by arranging the convoy wagons in a circle as was done by the Boers when they were trekling from one part of the country to another

m in extent and lies off the mainland of the Boltic m in extent and lies off the mainland of Holstein The soil is fertile and much of it is covered with forests

a Bassée Town of France It is 16 m named after it A small mining town, it was destroyed during the Great War, but has been rebuilt. It has been adopted by Preston

Laboratory Place set apart for carry ing out scientific experi It varies in character and equipment according to the nature of the science teaching of physical science laboratories are essential, also for purposes of research, whether academic or economic The National Physical Laboratory at Teddington where research and the testing and standardisation of materials are carried out, is an important government laboratory

Labouchere Henry du Pré English politician and journalist Born in London, Nov 19, 1831 he was edu cated at Eton and Trinity College Cambridge English and entered the diplomatic service. In 1865 he was elected an MP, but he soon lost his seat. In 1880, however, he was returned for Northampton and he remained in the House of Commons, one of its most prominent figures, until 1905 During those years he was persistent in his efforts to secure integrity in public life

He died in Florence Jan 15, 1912
In 1870 Labouchere who had done a little writing for The Daily News established Truth, and to him was due the distinctive feature of that weekly journal, its constant and fearless exposure of impostors and jobbery

Labour In economics one of the factors in the production of wealth, the others being land and capital It describes work done on ray material, except that which takes the form of management and direction

The share of the joint product which should fall to labour in the shape of wages has been the subject of much discussion and many troubles One idea is that labour is a commodity to be bought in the market at the lowest possible price this being in practice the minimum cost of living Another view is that labour has the Tariffs first claim on the product of industry and other factors outside the industrial system also influence wages

Labour Ministry of Department of the up in 1916 to deal with matters affecting labour, such as unemployment and arbitration, and is under a minister usually a member of the Cabinet who is assisted by a parliamentary secretary and staff The offices are at Montagu House Whitehall, London, SW 1

Labour Day Same given to May 1 in most Furopean cities hold labour demon stration. In the United States and Canada

and in some parts of Europe, Labour Day is a national holiday

Office estab Labour Exchange lished controlled by the state for the registration of the unemployed, and the adjustment of the supply of labour to the demand. In Great supply o' labour to the demand In Great Britain they were established in 1910, but in 1916 the name was changed to Employment Exchange (q v )

Labour Party Political party in Great countries Existing to further the interests of the working classes it arose during the 19th became powerful in the 20th century and In Great Britain it was first represented in

Parliament in 1900 In 1923 the Labour Party became the official Opposition in the House of Commons, and in 1924 it formed a ministry This had a short life, but a second Labour Ministry was power from May 1929, to August, 19 Then the party split, the majority under Mr Arthur Henderson forming the Opposition, while a minority supported the National while a minority supported the National Government of Mr J Ramsay MacDonald In the ensuing General Election (1931) the Labour party was reduced from 265 members to 51, the Unionist party securing no fewer than 471 seats On Mr Arthur Henderson's defeat the 1931 clost tended with 15 the defeat at the 1931 election leadership of the Labour party passed to Mr George Lansbury He resigned for health reasons in Oct, 1935, and Major Attlee became chairman till after the General Election in Nov when he was appointed leader At that Election 154 Labour members were returned to Parliament as against the National Government total of 431

The Labour Party holds an annual conference and its headquarters are at Transport House, Smith Square Westminster, SW 1 Associated with it is the Parliamentary Labour Party, all Labour members of Parliament, but Independent Labour Party is quite distinct but the

Labour Parties have obtained political power in other countries, especially Australia There it has dominated the politics of the several states and has been in power for a considerable portion of the Commonwealth's existence, its leaders being Mr W M. Hughes, Mr A Fisher and Mr J H Scullin The Labour Parties in Canada and the United States have

not yet secured political power
Labrador District of North America
The most casterly part of the
continent, it consists of a stretch of land along the Atlantic Ocean, from the Gulf of the St Lawrence to Hudson Bay The coastline, which is about 1000 m long, is indented with many bays and fringed with many islands The in soil unfertile The population consists of (1931) 4624, mostly Eskimos, and the only industry is fishing There are, however, considerable potunal programmes in the shape of siderable natural resources in the shape of timber and minerals that are still unexploited

The area of Labrador is about 500,000 sq m, divided between Canada and Newfoundland In 1927 the Privy Council settled a dispute about the boundary, and 110,000 sq m of the land were given to Newfoundland This coastal strip is Labrador proper In 1932 it was stated that Canada was willing to purchase

Labrador from Newfoundland

Labradorite Variety of soda-felspar igneous rocks, and, owing to its fine play of colours, is used for making cameos and decorative slabs

La Bruyère Jean de French essay-16, 1645, he was educated at Orleans Univer-sity. Called to the Bar in 1673, he became on Bossuet's introduction, tutor to Condé's grandson In 1688 he published his Caracters, sarcastic pictures of well known contempor aries which more than once caused his defeat

as candidate for the Academy His style, like Racine's, is an excellent example of classical French He died May 10, 1696

Labuan Situated off the East Indies Situated off the north-west coast of Borneo, it has been British since 1846 and under the control of the Straits Settlement when 1007 Medges form the water learner to since 1907 Malays form the main element in the population Agriculture is carried on and there is some export trade Victoria (pop 1500) is the capital and has a good harbour Pop (1932)7771

Laburnum Genus of hardy herbs of the leguminous order They are natives of southern Europe The common natives of southern Europe The common L. vulgarc, introduced into England in the 16th century, bears pendulous sprays of yellow pea-like flowers Purple laburnum is a hybrid of this with an allied species Scotch laburnum has smooth pods The wood of the laburnum is used to some extent by cabinet makers

Labyrinth Name given to an intricate series of passages in a building or underground The most famous labyrinth was that of Chossos in Crete, built, according to the legend, by Daedalus In Egypt, at Hawarah, there are the remains of another renowned labyrinth built by Amenember 111 and mentioned by Herodotus hat III, and mentioned by Herodotus

Lac Purple dyestuff used for dyeing the bodies of Coccus lacca, an insect occurring on the twigs of Ficrus indica and other trees in India, China and Japan The insects secrete the resin known as stick lac, and the dye is obtained by soaking the lac with the insects in water

Lac (or Lakh) Hindu word for 100,000, but used to describe any great number Hindu word for 100,000, A lac of rupees, 100,000, is worth between £6000 and £7000

accadive Group of Islands in the some 200 m from the Malabar coast, the group consists of 14 islands, 9 of which are inhabited They are administered by the

group consists of 14 islands, 9 of which are inhabited. They are administered by the Madras Presidency. The people, who are mainly Mohammedans, carry on a trade in coconuts and coconut products. Pop. (1931) 16,046.

Laccolith Term used in geology. It is applied to an intrusive igneous rock, which has been forced up in a molten state to spread between the overlying strata forming a lenticular mass. Owing to this strata forming a lenticular mass Owing to this intrusion the superficial strata have become elevated into a large anticlinal dome, examples of this structure being met with in Utah

Lace Ornament of silk or cotton used on clothing and for other purposes Lace is of two kinds, that made by hand and that made by machinery Both are worked according to designs provided for the worker and some of these are very beautiful Handmada lace has been produced for controlled made lace has been produced for centuries, and various kinds were called after European

cities which specialised in their manufacture Thus we hear of Venetian, Mechlin and other laces In England, lace-making flourished in Devonshire and Buckinghamshire, and some

beautiful lace was also made in Ireland Point lace, in which the Venetians excelled, is not unlike embroidery, the lace pattern being worked upon a fabric foundation Pillow lace is made by platting the threads around bobbins placed on a pillow or frame and arranged to form the required pattern In the 18th century lace was first made by

machinery, and in the 19th this became a staple industry of Nottingham and its neigh-bourhood, as well as of Devonshire and parts of Scotland Other centres were Calais and Plauen

Machine lace is made on a machine invented by John Leavers, and the laces are named usually after the patterns of hand-made arieties, such as Brussels, Valenciennes, Torchon and Alencon

In the 20th century the prosperity of this industry dwindled For five years after the Great War the English manufacturers were protected by a safeguarding duty of 33½ per cent, but this was removed in 1930 Protection was again given however, when a general tariff on imported manufactures was imposed in 1932 Bleaching is a subsidiery industry. in 1932 Bleaching is a subsidiary industry

acedaemon In Greece, a name, used interchangeably with Laconia, for the district around Sparta (q n)

La Chaise François de French priest born at Aix, Aug 25, 1624, and educated at Lyons He became a member of the Society of Jesus and was appointed in 1674 confessor to Louis XIV, a position which he held until his death, Jan 20, 1709

His name is borne by a cemetery in Parls (Père La Chaise), one of the most famous in the world

the world

Lachine Town of Quebec. It is on Lake St. Lawrence, 8 m from Montreal Near are some rapids in the river and the canal cut to avoid them is called the Lachine Canal There

are some manufactures. Lachine has stations on the CPR and CNR Pop 15,400

Lachish Ancient city of Palestine. It stood 16 m from Gaza and was a place of importance in early times. The site a place of importance in early times. The site has been excavated and valuable discoveries made. It is mentioned several times in the Bible, and in Joshua x there is a reference to the King of Lachish

Lachute Town of Quebec, Canada It is Served by the Canadian Pacific Rly The industries include sawmilling Pop 3906

Lacquer Name given to a resinous polished surface when applied to wood or metal Japanese lacquer is made from the resinous exudation from the lacquer tree, Rhus verneufera, and is used for cabinets trays, boxes, etc, giving a very hard and polished coating Ordinary lacquers are made from shellac dissolved in spirit with the addition of other resins and colouring matter, and are applied to metal and hardened by stoving the articles

Lacrosse Outdoor ball game The name is played on a field about 100 to 150 yds long The stick is furnished at the end with a net, and the aim of the player is to catch the ball

The players are arranged much as in association football and only goalkeepers may handle the bell In England to day matches are played between Oxford and Cambridge since 1887 they have been played between north and south and since 1922 there has been a regular county champlouship The game is very popular in Canada, whence it was introduced into England

actation Secretion of milk, or the period of suckling an infant. In human beings normal milk appears within two or three days of the birth of the child the average amount being 12 or 16 oz daily This lasts for about five weeks, after which the amount increases until the child is about eight months old It then decreases gradually

Lactic Acid Several organic acids CH, CHOH COOH The commonest formed during the souring of milk by bacterial for montation of milk sugar, is a syrupy liquid but can be obtained in crystalline form. It occurs also in fermenting vegetable matter and in meat juice

Lactometer Name given to a type of instrument used in the determination of the quality of milk There are several forms of lactometers One is a variety of hydrometer for taking the specific gravity of milk and another is a cylindrical graduated glass vessel which measures the volume of the separated cream

Lactone Group of colourless liquid comalcohol and having usually a faint aromatic odour They are regarded as intramolecular anhydrides of certain hydroxy acids, and are obtained by the elimination of water from certain hydroxy-carbonyl acids by the action of mineral acids upon the salts of these acids

Lactose Scientific name for milk sugar occurring in milk It is less soluble and not so sweet as cane sugar It does not ferment with yeast but undergoes fermentation with the common mould, Penicillium glaucum, forming lactic acid and causing the souring of milk. Lactoss is a byproduct of the milk industry in Switzerland, New Yealand and elsewhere. New Zealand and elsewhere

Ladoga Lale of Russia In the north borders of Finland and only a few miles from Lenlagrad It covers 7000 sq m being the largest lake in Europe and its length is 125 m I canal to the Gulf of Finland 50 m away, has been planned

Ladrones or Mariannes Group of Islands in the Pacific Ocean They are about 1500 m. from the Philippines and are coverned by Japan under mandate from the league of Nations except Guam which belongs to the United States Salpan Tinian and Rota are the largest of the i-lands many of which are uninhabited Coconuts cotton tobacco rice and other tropical products are grown here Their area is 470 sq m and the population 69 530 of whom 19 695 are natives and the rest Lipanere

Ladybird Large family of beetles (Cocci nellidae) They have clubbed antenna and apparently three jointed feet. Comprising about .000 species the most familiar British species are the red or yellow two spot

in this and then to carry, or hurl, it forward, and seven-spot. With bodies usually shining The ball is of rubber weighing about 4½ oz and hairless they are economically valuable, A side consists of 12 players and the aim of each is to get the ball between the goal posts scale insects and plant lice

Ladybrand Town of the Orange Free State It stands in the mountains of Basutoland about 5000 ft. above sea level It is connected by rallway with Bloemfontein Pop (Eur 1931) 2396

Lady Chapel Place for the altar of the Virgin Mary in large churches It was often a separate building, but to day is more usually part of the main structure There are some very beautiful lady chapels in the English and French cathedrals and churches A fine example is at Ely but there are many others as in the new cathedral at Liverpool

Lady Day Name given to March 25 in the Christian calendar it is the day of the annuclation of the Virgin Mary It is a quarter day in England and Ircland

Lady's Mantle Flowering horb of the order rosaceae. It grows in the northern parts of Europe and Asia. The yellowish flowers grow in clusters

Ladysmith Town of Natal, Africa River, 190 m from Durban, with which it is connected by railway There is a racecourse and a market is held here Standing about 3000 ft high the town is visited by invalids. It owes its name to the wife of Sir Harry Smith, at one time Governor of Cape Colony Pop (Eur 1931) 3659

In 1899 a British force, 12,000 strong under Sir G White, was besieged here by the Boers. The slege lasted from Nov 1, 1899, to Feb 28, 1900 when the relieving force, under Sir Redvers Buller, entered the town

Lady's Smock (Cardamine pratensis)
the cruciferous order It is found in Great
Britain in moist meadows and swampy places
in the spring Its flowers are of the palest
lilac or pinkish purple shade borne on stems
12 to 18 in high The upper leaves are pinnate
with small parrow leaflets. The lower leaves with small narrow leaflets the lower leaves broader and more rounded with a larger terminal leaf. Other names for it are cucked flower, and milkmaids

Laertes In Greek legend, King of Ithaca and the father of Odyssous. He joined in the Calydonian bear hunt and in the expedition of Jason and the argonauts He was still alive when Odyssous returned home after his wanderings

afayette Marquis de French states Ves Roch du Motter was born Sept 6, 1757, of noble family In 1777 he went with some followers to help the colonists in America in their struggle with Britain and he served with them throughout the war In 1789, being again in France he was elected to the states preneral, and commanded an army when var brole out with Austria but soon quarrelled with the dominant Jacobins and fied from the country In 1799 he returned to France, and came into prominence after the restoration of the Bourbons In 1824 Lafayette visited the United States, where he was received as a here He died May 20, 1834. Two American cities are named after Lafayette, as is also the Lafayette Mational Park (12 sq. m) in Mount Desort Island off Maine

La Fère Town of France It is 10 m tion of the rivers Serre and Olse The Germans took it in their advance of 1914 and kept it until Oct 13, 1918

La Fontaine Jean de French writer Born at Château-Thierry, July 8, 1621, he studled to become a priest, but instead took to the law However, he never but instead took to the law However, he never settled down to regular work, but lived au idle and diesolute life, chiefly in Paris In 1661 he began to write and during the next few years published the volumes on which his fame rests. The most valuable are the Fabliaux written in verse, almost equally famous are the Contest La Fontaine, who was very friendly with Molière and Racine, died April 13, 1695

Lagash City of Babylonia It was perhaps in 3000 BC, or earlier, and was a flourishing centre of their culture. It had its own rulers, called patesis, who were subject to one or other of the kingdoms of that time, including Akkad and Ur. Soon after 2400 BC, the city disappeared.

Lager Light beer It is produced in Bavaria at low temperatures by decoction and bottom fermentation. It differs from infusion beers in containing more unformented malt extract and carbonic acid and

formented malt extract and carbonic acid and less alcohol British beers resembling lager are produced by variant methods

Lagerlöf Selma Ottiliana Louisa Swedish writer Born Nov 20, 1858, she was at first a teacher but soon began to write In 1891 she made a reputation began to write In 1891 she made a reputation with some short stories, Gosta Berling's Saga Novels followed and most of them have been translated into English The English titles of the best are, An Adventure in Vineta, 1895, Jerusalem, 1901-02, The Adventures of Nils, 1906-07, The Outcast, 1920. The General's Ring, 1925, Anna Svörd, 1927 From My Childhood appeared in 1930 Her books owe their success to their vivid nichures of Swedish their success to their vivid pictures of Swedish life In 1909 she was given a Nobel prize, and in 1914 was elected to the Swedish Academy as its first woman member

Laggan Look, or lake, of Inverness-shire It is 7 m long, and the River Spean flows through it

Lagoon Sheet of water It may be an estuarine shallow enclosed by dunes of river silt, as at Venice Other lagoons are formed by springs, and others are sheets of water within a coral atoll

Lagos City and seaport of Nigeria It Lagos City and seaport of Nigeria It stands on a small island of the same name, just off the mainland, with which a bridge connects it Lagos has a good harbour and a considerable trade passes through it Here is a wireless station Pop (1031) 100,000 The district and town of Lagos became British in 1862 and until 1914 there was a colony of Lagos This now forms part of the protectorate of Nigeria

protectorate of Nigeria

In Lagos Bay on Aug 18, 1759, four French warships were destroyed by a British ficet under Admiral Boscawen

Lagrange Joseph Louis French scien-1736, of French paronts, he was educated there He became professor in the University at Turin, and in 1766 director of Berlin Academy His later years from 1787 were spent in Paris, where he was a professor He died April 10, 1813 His investigations into the principles of acoustics, mechanics and dynamics, were of acoustics, mechanics and dynamics, were of

the highest value His chief work is the Mécanique Analytique

Mecanique Analytique

La Harpe Jean François de French
20, 1739, he began to writer Born in Paris, Nov
20, 1739, he began to write, and in 1763 pro
duced a tragedy called Warwal. This was
followed by others and also by books of
orticism called Lycée, ou Cours de Littérature,
in 12 volumes He favoured the Revolution,
but, having been imprisoned, turned to the
Royalist side He died Feb 11, 1803

La Hogue Cape of the Contentin Peninsula, France Here, on
May 19, 1692, an English fleet, under Admiral
Russell, aided by some Dutch ships, defeated
the French, most of whose ships were destroyed

the French, most of whose ships were destroyed by the pursuers, who sent fire ships amongst them The victory saved England from invasion as France had an army of 20,000 men ready near Cape La Hogue The battle is sometimes called after another cape on the peninsula, Barfleur

Lahore City of India and the capital of the Punjab It stands on the left bank of the River Ravi, 1250 m from Calcutta and is a great railway centre There is an old and a new part of the city A university for the Punjab has been founded and there are several colleges The mausoleum of Ranjit Singh and the Hall of Mirrors are reminders of the past The city is still surrounded by its walls and a bridge crosses the river The large rallway

bridge crosses the river The large rallyay works give much employment and there are some native manufactures, but the agricultural trude is more important Pop (1931) 429,747

Laibach City and river of Yugoslavia liver, is 44 m from Trieste and is the chief town of a large district Pop (1931) 59,768

In 1821 a congress of European powers was held at Laibach It was the last of the series that was started in 1814 There the powers authorised the Austrians to occupy Naples

Laissez Faire French expression, It is used in political economy to summarise the individualist, as against the collectivist, doctrine of non-interference by governments in politics and trade, and supposedly originated in 1680, when Legendre remarked to Colbert, recording government regulation of a summarise treatment of the condition of the cond 1680, when Legendre remarked to Colbert, regarding government regulation of commerce, "Laissez faire, laissez passer"

Term used for the whole body of Laity who are not clergy In the Church of England one of the three houses of the national assembly is the House of Laity The members are elected for five years by the diocesan conferences

Lake Expanse of water accupying a depression in the land surface Lakes from various causes are liable to fluctuate greatly in extent and tend gradually to disappear They may form in rock basins or be appear They may form in rock basins or be caused by an obstruction such as ice or moraine accumulations in a river valley, or by the upheaval or subsidence of land, or old volcame craters The Caspian Sea and Lake Superior are the two largest lakes in the world

Lake Name given to insoluble pigments Lake Name given to insoluble pigments the combination of an organic dyestuff with alumina or metallic salts. A number of lakes are used as watercolour paints, especially those from the madder plant (rose madder), and from cochineal (crimson lake), but are being replaced by more permanent alizarine pigments

Lake District Area in the north of England It covers

some 400 sq m in the countles of Cumberland Westmorland and Lancashire and is a pictur esque district of mountains, lakes and valleys The chief centres are Keswick, Ambleside, Grasmere and Bowness, and in the district are the three highest mountains of England, Scafell, Helvellyn and Skiddew The lakes include Windormere, Derwentwater, Ullswater, Conlston, Grasmere and others The district is much visited by walkers and climbers and has several packs of forhounds It was first made popular by the poems of Wordsworth, Coleridge and Southey, the Lake poets.

Lake Dwelling Habitation supported on piles or fascines, usually found on shallow lake margins Remains found in Central Europe, especially in Switzerland, from 1863 onwards, yielded many objects belonging to the stone, bronzo and early iron ages, similar dwellings are still seen in Borneo and Papua. In neolithic times villages of 200 or 300 huts on pile supported platforms were the centres of a civilisation that included fishing and some agriculture. included fishing and some agriculture

Lake of the Woods LakeofNorth America, partly in Canada and partly in the United States It covers 1850 sq m, and in it are many islands, hence its name Kenora at the Canadian end is the chief port on the lake

Lally Thomas Arthur French soldler Born Jan, 1702, he was the son of Sir Gerald O'Lally, an Irishman and a Jacobite He entered the French army and took part in the expedition of 1745 but his chief exploits were in India In 1756 he led a force to that country and for five years conducted the fight against the British in and around Madras In the end he was defeated and made prisoner when he surrendered Pondicherri Allowed to return to France, he was tried for treachery, found guilty, and beheaded May 7 1766

His son, Trophime Gerard Lally-Tollendal

Lamaism Religious system prevalent in Tibet, Mongolia and Sikkim A form of Buddhism, it is administered by monks and nuns. The chief pontiff is the temporal Dalai or Grand Lama, inhabiting the Poti la Palace at Lhasa the Pen-Chien Lama, the subtituel head inhabiting the Pen-Chien Lama, the spiritual head inhabits the Tashi lhunpo The Dalai I ama is Buddhism's acknowledged head in China, but not in Japan

Lamarck Jean Baptiste French scient Born Aug 1, 1744, he entered the army, in which he served during the Seven Years War An injury compelled him to seek another calling and he became a banl clerk. He spent much time in studying botany and in 1773 published a book on the flora of France through this he became a through this he became a member of the Academy in 1778, and keeper of the herbarium in the royal garden in Paris He lectured there on zoology for 25 years and at the same time worked out the ideas on evolution which are expressed in his books Philosophie Zoologique and Histoire des Animaux sans I erlebres. In a sense he was a forerunner of Darwin but he knew nothing of natural selection and the variation of types He died in Paris Dec 18 1829

Lamartine Alphonso Marie Louis de Prench writer and politician Born at Macon Oct 21, 1790 he was educated

published some poems called Méditations, and these with later volumes marked the revival in his country of romantic poetry. He also wrote a book on his travels in the East, and a narrative poem called *Jocelyn* in 1833 he entered political life as a deputy, became Foreign Minister, and was for a time the most powerful man in the country. In a few months have referred, and the meet of his days, were he resigned, and the rest of his days were passed in writing His notable books include La Chute d'un Ange, Confidences and Nouvelles Confidences As an historian ho won fame with his Histoire des Girondins, he also wrote a history of the events of 1851 52 He died May 1, 1869 Lamartine married an Englishwoman. Marianne Birch

amb Charles English writer and wit. Born in London, Feb 10, 1775, the son of John Lamb he was educated at Christ's

Hospital in Newgate Street, and in 1792 became a clerk in the service of the East India Co There he remained until his retirement in 1825 He lived with his sister Mary, in the Temple, and then in succession at Enfield, Islington, Edmonton and elsewhere He died Dec 27, 1834, and was buried at Edmonton Lamb is best known by his Essays of Elia of their kind the most delightful and popular in the language which first appeared in The London Magazine With his sister he wrote Tales from Shal espeare, and he himself wrote The Adventures of Ulysses and other books for children as well as a tragedy, John Woodvil, and a number of poems Lamb had a great circle of friends, and many of his witty sayings have been preserved Chief among his friends was S T Coleridge His domestic life was clouded by the periodical madness of his sister, who in one of her attacks killed their mother After this tragedy Charles took charge of her until his death She lived until May 20, 1847

ambeth Borough of the county of London It is on the south His son, Trophime Gerard Lally-Tollendal became known as a Royalist during the krench Royalist new made a marquis by his friend, Louis XVIII

Religious system prevalent to the Thames, having a considerable frontage on the river, and includes the districts of Brixton, Kennington Vauxhall, Herne Hill, Tules Hill and part of Norwood The industries of Brixton, and appringenting works, but include pottery and engineering works, but there are many others. A kind of pottery produced here in the 17th century is known as Lambeth ware A new bridge over the Thames was opened by King Goorge V in July, 1932 The borough sends four members to Parliament Pop (1931) 296 162 LAMBETH PALACE, which overlooks the

river, has been for 700 years a residence of the archbishops of Canterbury The building is full of interest Features are the dining hall, the chapel and the rich library, the gatchouse and the Lollards' Tower Part of the grounds called Archbishop s Park is open to the public

A decennial meeting of bishops of the Anglican Church is held at Lambeth, and is called the Lambeth Conference The last was held in 1930

Lambton Castle Seat of the Earl of Durham It is 8 m from Durham, overlooking the River Wear and was built in the 18th century on the site of an older house It stands in a large park In 1930 the house was closed, and in 1932 some of the literary and other treasures were sold

Lamentations old Testament, Ascribed to Jeremiah it consists of five dirges, four of which are written acrostically beginning at Lyons and then went to Italy In 1820 he with the successive letters of the Hebrew inments, concerning Nebuchadnezzar's capture of Jerusalem and destruction of the temple, 586 BC, are read in the synagogue annually on Aug 6

Lamesley Town of Durham It stands on the Team, 4 m from Gateshead, on the L.N.E. Rly Coal mining is the principal industry

Lamia In classical mythology, a Libyan queen whom Zeus loved When Hera slew her children she destroyed every child she could secure Greek mothers used her name as a bogey to frighten their children She passed into Greek demonology as a vampire enticing youths to their destruction, as in

Keats's poem, Lamia

Lamination Term in geology It is applied to the structure seen in sands, clays and shales where the component particles are laid down in thin layers ranging from an inch down to muth of an inch in thickness Lamination is due to successive depositions of fine mud or sand by rivers or tidal currents, usually in quiet waters

Lammas Day Name given to August formerly also an English, quarter day In mediaeval times it marked the end of the wheat harvest, and on it a loaf was offered as a thanks giving by every harvester. It was thus the loaf mass or lammas. When the calendar was altered, lammas day was moved to Aug. 12 The lammas fields were the fields which on this day were thrown open for pasturage, previously they had been enclosed for the growing of corn.

Lammermuir Range of hills in Scotland They run through Berwickshire and East Lothian (Haddingtonshire) to St Abb's Head Lammer Law (1733 ft.) is the highest point The scene of Scott's novel, The Bride of Lammermoor, is laid here

Lampblack Impure form of soot It consists of amorphous carbon and hydrocarbons obtained by burning in special furnaces such substances as oil, resin

special furnaces such substances as oil, resin and other organic material, the lampblack being collected from the hood or flues of the furnace. It is used in the manufacture of black paint and printers' ink

Lampeter of Cardiganshire. It is on the Tlefy, 27 m from Carmarthen, on the GW Rly Here is S David's College, founded in 1827 for the training of candidates for the ministry of the church in Wales. Pop. (1931) 1742 1742

Lampoon Name used for a satire, or attack of a somewhat vulgar character, on an individual It may be either in verse or prose At one time politicians were yory subject to lampoons

Lamprey Family of aquatic vertebrates of an order lower than fishes Scaleless and jawless, they cling to rocks or fishes by their mouths British sea lamproys, river lampreys, or lamperns, and mud lampreys, or prides, all ascend rivers for spawning, and are captured mainly for bait for seafish They are found in all temperate waters

Lanark Burgh, market and county town of Lanarkshire It stands on the Clyde, 31 m from Glasgow, on the L M S line Cotton and other textiles are manufactured, and there is an agricultural trade Every June a town festival is held on Lanark Moor, and there are race meetings twice a year The

The scenery in the neighbourhood is very beautiful

Near is New Lanark, where Robert Owen erected cotton mills and worked them as an experiment in socialism

Lanarkshire County of Scotland It the country and, as the Civde flows through it, is sometimes called Clydesdale. It covers 879 sq m, and is chiefly noted for its rich coal mines which have made it a great industrial area More than one-third of the population of Scotland lives in Lanarkshire, which includes most of Glasgow, as well as Lanark, Rutherglen, Motherwell, Hamilton and Airdrie Away gien, Motherweii, Hamilton and Ardrie Away from the mines there is much fertile land, where market gardening and the rearing of horses, cattle and sheep are carried on Clydesdale horses are famous The chief rivers are the Cart, Kelvin and other tributaries of the Clyde, and in the south are the Lowther Hills The county is full of scenes and buildings of historic interest Pop (1931) 1,585,968

Lancashire County of England. In the north-west of the country, it has a long coastline on the Irish Sea. Elsewhere its boundaries are Yorkshire and Cheshire In the north is a portion of the county separated from the rest by Morecambe Bay and known as Furness The county is entered by the Pennines. The rivers include

entered by the Fenniues. The rivers include the Mersov, Irwell, Ribble, Lune, Calder and Darwen Coniston is the largest lake
Much of Lancashire is a thickly populated area, and is a centre of the coal-mining and cotton industries Liverpool and Manchester are the chief industrial towns, and the principal seaports, Manchester being linked with the sea by a ship canal Other large towns are Salford, Blackburn, Bolton, Oldham and is the county town, Preston Lancaster Barrow-in-Furness is a large seaport Blackpool and Southport are popular watering places Lancashire is a famous cricketing county and

has innumerable cricket and football clubs
Pop (1931) 3,926,760
The Lancashire Fusiliers, a regiment of the
British army, was raised in 1688 and was
formerly known as the 20th Foot It has a
long and honourable record of active service,
and had many battalions in the field during the
Great War The depôt is at Bury

Lancaster Borough, market town and river port of Lancashire, also the county town It is on the Lune, 7 m from the sea and 230 m from London, on the L MS Rly Much of the old castle is now used as law courts and contains a museum The chief industries are the making of linoleum and engineering works, there is a little shipping in the river and engineering works, while

(1931) 43,396

The Royal Lancaster Regiment, which has its depot at Lancaster, is nowadays known as

the King's Own.

Lancaster Duchy of Name of the King as Duke of Lancaster They are chiefly in the counties of Staffordshire and Lancashire and are managed by a council, the head of which is the chancellor of the duchy, a member of the Government In 1931 the in one of the duchy was £120,000, and £62 000 was paid to the King The duchy has an attorney-goneral, and courts are held in the name of the Duke, who appoints the high sheriff of the county

ancaster Duke of Title borne by Title borne by Henry III 's younger son, Edmund, was made) Earl of Lancaster in 1267, and this title passed to his great-grandson, Henry, who was made a

duke in 1351

Duke Henry was a famous soldier until his death on May 13, 1356 He left no sons, only Gaunt obtained the rich estates of the duchy and the title of Duke of Lancaster, which passed on his death to his son, who became Henry IV The duchy then became associated with the crown and since that time (1399) the king, or queen, has been Duke of Lan caster

Lancaster Duke of English prince because he was born at Ghent was the fourth son of Edward III Born June 24, 1340, in 1359 he married Blanche, the helress of Henry, Duke of Lancaster, and so obtained that title, She died in 1369 and he married Constance, daughter of Peter, King of Castile John spent much of his time fighting in France and Spain and at one time hoped to become King of Castile When his father's health was feeble he became active in English politics, and he remained so during the reign of his nephew, Richard II At this time he was the leader of the party that favoured the teaching of Wycliffe and opposed the church He died Feb 3 1399 leaving a son who became Henry that deachers Cathesine He third and a daughter, Catherine His third wife was Catherine Swynford By her he was the father of the Beauforts, who played an important part in public affairs during the reigns of Henry IV and Henry V

Lancaster House of Family that pro 1399 to 1461 Its founder was Edmund, a son of Henry III, who was made Earl of Lancaster in 1267 In 1351 Henry, a later earl, was made a duke and from him the title passed to Ildward III's son John of Gaunt, who married the duke s daughter Their son Henry claimed the throne as being descended from Edward I the throne as being descended from Edward I, and in 1399 landed in England from his exile and was crowned Henry IV, Richard II being deposed He, his son Henry V and his grandson Henry VI were kings in turn, Richard Duke of York claimed the crown in opposition to Henry VI, and the Wars of the Roses began The result was the deposition of Henry VI in 1461 and his murder in 1471 His sun had already been killed and the house of Lengater begans extinct in the male line. of Lancaster became extinct in the male line

Lancaster Joseph Figilish reformer Born in 1778 he opened a school in Borough Road London in 1801 He introduced into this the monitorial system, and the experiment was so successful that in 1808 the Born I variation

introduced into this the monitorial system, and the experiment was so successful that in 1808 the Royal Lancasterian Society was 1808 the Royal Lancaster House School Society Lancaster with to the United States in 1816, and was in New York when he died Oct 24, 1838 He is regarded as one of the pioneers of popular education in Fugland

Lancaster House Mansion containing the containing The town occupies the site of a Roman city and many Roman remains have been unearthed Pop 5200

Lancing Time Brighton, and has of late become a seaside resort. On the Downs above the Green Park. Formerly York House it the Green Park. Formerly York House it two finit about 1826 for the Duke of York and was bought recessively by the Duke of Nt'terland (1841) and Lord Leverhulme (1912) the latter renamed it Lancaster House and presented it to the nation to contain the London luscum.

ance Slender cavalry spear It was used by the knights in the Middle Ages It was used Its use was revived during the Napoleonic wars and in the 19th century it was adopted for regiments in the British, Prussian and other armies It is now only a ceremonial weapon The lance is from 8 to 9 ft long, made of steel with a short, triangular spear head Sometimes it is of ash or bamboo with a steel head

Lance Corporal Non commissioned officer in the British army It is the lowest rank in the service The lance corporal wears a single chevron on each sleeve

ancelet Small vertebrate creature. It is found near the coast of most is found near the coast of most warm countries and is about 2 ins long It is like a fish in shape, but is a much simpler organism, being merely a piece of jelly with a backbone It belongs to the class Cepha lochorda, and is interesting because, being the lowest of the vertebrates it is regarded as the link between these and the invertebrates Its other name is amphioxus

Lancelot Character in the Arthurian legends. He appears as the handsome knight who won the love of Arthur s nanusome knight who won the love of Arthur s queen, Guinevere, and so broke up the company of the Round lable. He was known as Sir Lancelot of the Lake, and tradition makes him the father of Galahad. He is said to have become a monk after his great battle with Arthur His story is in Malory's Morte D'Arthur and in Tennyson's Idylls of the King.

Lancers Cavalry regiment in the British They are so called because their principal weapon was the lance At one time there were six of them, 5th, 9th, 12th, 16th, 17th and 20th The oldest, the 5th and 9th Lancers were raised in 1697, and the others in the 18th century After the Great War the number of lancer regiments was reduced to four and in 1929 one of these the 12th, was made into an armoured car regiment. The other three are the 9th, the 16th/5th, a union of those two, and the 17th/ 21st, another union All have fine records of service, especially the 17th, which wears as its badge a Death's Head and is called the Death or Glory Boys

Lancers Square dance It is of French origin and was very popular in the 19th century It consists of five figures and eight people compose the set.

Lancewood Tough elastic timber of various trees of the custard apple order It grows in British Gulana and the West Indies Assegal wood, collected the control of the contro allied to dogwood, is sometimes called Cape Lancewood

state as a whole Much of the land in private

hands is let out for rent

The private ownership of land has created many difficulties, and sometimes perhaps in-justices, and as a remedy its nationalisation has been suggested. The special taxation of land, which it is argued differs from other commodities in that its amount is strictly limited, has been advocated and in one or two cases has been put into practice. In Ireland, where the land problem is particularly acute, much of the land has been bought by the tenants from the landlords with the aid of the state

In Great Britain economic causes in the 20th century have led to the sale and break up of many large landed estates All over the civilised world the tendency is for the ownership of land to pass from the large holder to

the small one

the small one
In Great Britain land is conveyed from
one person to another by lawyers who draw
up conveyances, which, with other documents,
constitute the title deeds This applies to the
two kinds of land found in the country, freehold and leasehold The laws dealing with
land are very cumbersome, but a series
of laws passed in 1925 helped to simplify them
To facilitate the transfer of land a system of

To facilitate the transfer of land, a system of registration has been devised. This has been adopted in Canada, Australia and other parts of the British Empire and to some extent in England. An office for the registration of titles. to land was opened in London In 1898 the registration of land sold was made compulsory in the county of London and in 1925 in the borough of Eastbourne, it is also compulsory in Yorkshire and Middlesox, elsewhere it is optional. The owner of land on the register for a certain time obtains an absolute title to it which is guaranteed by the state, and future transfers can be carried out at small cost.

Land In economics one of the factors in production, the others being capital and labour The share of the joint product which it receives is known as rent. According to Ricardo's theory of rent, the amount of rent is decided by the value of a piece of land over land on the margin of cultivation, 1 c, land which just pays for the expenses of cultivation and no more

This idea of rent is quite sound in theory, but in practice it needs modification Local customs play their part in determining the value of land Moreover, land, especially agricultural land, has had a certain amount of capital put into it and must offer a return

in the shape of profits

The enormous increase in land values in towns has led to a demand for special taxation on these, but so far only temporary expedients have been attempted in this direction

Land Army Organisation set up in Great Britain in 1917 It was composed of women who were enrolled, was composed of women who were enrolled, wore a uniform and received a regular weakly wage Each entrant received training and an outfit Their duties were to assist farmers, and at one time they numbered about 20,000 The organisation, which had a journal, The Landswoman, was dissolved after the war

Landau Town of Bavaria. It stands near the Hard's Mountains, 30 m from Mannheim, on the little River Quelch At one time it was a free city and was fortified In 1648 it was given to France and in 1816 to Bayaria The town is a centre of the wine trade. Pop 17,000.

Landau gave its name to a kind of carriage, once popular in England This could be open or closed and was usually drawn by one horse.

Land Court Body that decides matters concerning the tenure and rent of land In 1911 one was set up in Scotland This fixes fair rents, especially in the areas occupied by crofters, and decides the price of land that is taken for small holdings

Land Crab Widespread family of tro-modified gill cavities, acting as lungs, enable them to live on land They spend the day in burrows, sometimes two or three miles inland, migrating to the coast collectively in the breeding season The Jamaica violet land crab is a table delicacy, especially when softshelled during moulting

District of France It is in the Landes south-west of the country, and is a noted expanse of sand and marsh covering 3615 sq m in the departments of Landes, Lot-et-Garonne and Gironde On it furze grows freely and sheep are pastured. At one time the people of the Landes went about on stilts, so difficult was it to traverse the sand and marsh, but now there are roads that to a large extent have made this mode of progress unnecessary The department of Landes lies along the Bay of Biscay

title Landgrave "count" meaning There were several such in the Middle Ages and later, one being the ruler of Thuringia In Hesse there were landgraves until 1918

Land League Society set up in Ire-object was to reform the land system of that country. Its inspirer was Michael Davitt, and its president, C S Parnell The methods adopted, including refusal to pay rent, boy-cotting and even outrages, brought its sup porters into conflict with the law, and in 1881 the league was declared an illegal association After this time less was heard of its operations. and as the landlords were gradually bought out there was less need for it

Landlord Primarily one who owns land It is also used for the owner of houses and for the licensee of an inn. Many landlords let their land and houses to others who are known as tenants and who pay rent.

In Great Britain, as in other countries, a number of laws deal with the relations between landlord and tenant The several Rent Restriction Acts and an important act passed in 1927 regulate the position as regards pro perty which is not agricultural. One result was to give retiring tenants of business promises the right of compensation for improvements As regards agricultural land also, the retiring tenant is entitled to compensation for improvements made by him Sec LAND. RENT

Landor Walter Savage English writer Born at Warwick, Jan 30, 1775, the son of a doctor, he was educated at Rugby the son of a doctor, he was educated at Rugby and Trinity Collego, Oxford For a time he lived in Weles and wrote poems Later he raised and led a force to help Spain in the Peninsular War On his return from this expedition, he lived again in Wales, then in Florence, and then, for 20 years (1838-58), in Bath In 1858 he went back to Florence where he died, Sept 17, 1864

Landor was a fine scholar and a man of considerable gifts He had many friends,

but his quarrelsome nature made an equal number of enemies Of his writings the most popular are, Imaginary Conversations, 5 vols, The Examination of W Shakespeare and Pericles and Aspasia He also wrote a tragedy, Count Julian, and many poems Landor had a great love for republicanism, admiring Washing ton and Garibaldi

Landrall Alternative name for the cornerake (q v) used to distinguish it from a water rail It also denotes generally any rail frequenting uplands, cy, the New Zealand weke rail

Landrecies Town of France It stands on the Sambre, on the borders of Belgium, 50 m from Lille, and was long a fortified town Near is the forest of Mormal On Aug 25, 1914, when the British were retreating from Mons, sharp fighting with the Germans took place here The Gormans were driven out, but soon regained the town and held it until the end of the war

Landscape Term in art applied to a picture representing a view of a country as seen by the artist. Among the greatest of landscape painters are Ruysdael and Hobboma of the Dutch school, Claude Corot and Rousseau of the French school, and the English artists, Constable, Bonnington and Turner

Landscape gardening means laying out a garden with regard to its general appearance, not to the details of beds and borders. It thus needs a considerable area and is best seen in the gardens of the great English houses such as Alnwick and Bowood Natural features

can be used with great effect

Sir Edwin Henry English Landseer London, artist Born in March 7, 1802, he studied art under his father, an engraver, and at the Royal Academy an engraver, and at the Hoyai Academy Schools, London In 1826 he was made AR A and in 1830 R A He was knighted in 1850 He died in London, Oct. 1, 1873 Landscer became very popular as an animal painter His works are represented in the Tate and National Galleries, London In the form of engravings his pictures became very well National Galleries, London in the form of congravings his pictures became very well known, eq, "The Monarch of the Glen" and 'Dignity and Impudence" He designed the lions in Trafalgar Square, London

Land's End Extreme western point of England It is in Cornwall, 9 m from Penzance, and is visited by pleasure seekers

The granite cliffs rise to heldrit of 100 ft. Near are the Longships, a

height of 100 ft. Near are the Longships, a group of islets on one of which is a lighthouse

Landslip Subsidence of strata on the coast where hard beds rest upon soft impermeable ones. The action of springs and waves wear away the softer rocks rendering the overlying beds unstable and liable to break and slide down on to the shore I vamples are seen at Axmouth, Devon and Antrim Ireland

Land Tax Form of taxation Taxes on land have been levied in many countries and have taken many forms The feudal system included what was usually a tax on land, and tithes are a tax on land In Great Britain in 1692 a tax was levied on land at the rate of 4s in the L. Later owners were allowed to commute the tax and many did so To day it is only paid for a small proportion of the land of the country and produced 2650 000 in 1932. It is levied on the parishes and the amount divided up among the landowners

In modern times there has been a demand for taxes on land that has improved in value owing to the growth of population and other causes In Australia a tax of this kind was levied and there was one in Great Britain between 1910 1920, this being called the incre ment value duty. In 1929 a new land tax was introduced. This took the form of a tax on the capital value of land at the rate of a penny in every £1 Agricultural land and also plots of land worth £120 and less were exempt. A valuation of all the land in the country was begun, but this was suspended in 1931, and the proposed tax was abandoned

Lane Lupino English actor and acrobat.
He was born June 16, 1892, and
made his first London appearance as "Nipper Lane' in 1903 He is a member of the famous Lupino family noted for its acrobatic skill since 1780 and is himself an expert acrobat.

Lanercost Village of Cumberland It from Carlisle It is famous for the ruins of its 12th century priory, which has some old and interesting tombs

Lanfranc English prolate Born at a priest and settled in Normandy In 1041 he became a Benedictine monk at Bec and in 1045 he was made head of that house Through the influence of William, Duke of Normandy, he was made head of a monaster at Caen in 1062, and Archbishop of Canterbury in 1070 Ho died May 24, 1089, and was buried in Canterbury Cathedral, which he himself had rebuilt after the fire of 1067

Lanfranc was a scholar and wrote some entires and commentaries. He was also treatises and commentaries

one of William's most trusted advisers

Lang Alexander Matheson British actor Born in Montreal, May, 15, 1879, the son of a Scottish minister he was educated at Inverness and St Androws, and in 1897 first appeared on the stage Under F R Benson he played Shakespearean characters with much success and he soon became pro minent He took a company to Australia and S Africa and as a producer was responsible for, Mr Wu, Othello, Carnival and The Wander ing Jew, in all of which he himself appeared this other successes included Charles Surface in The School for Scandal, John Storm in The Christian, and he also played in Jew Süss and Elizabeth of England Lang has also taken part in productions for the films

Lang Andrew Scottish writer Born at Selkirk, March 31, 1844, he was educated at Edinburgh Academy, St Andrews and Oxford He was made a fellow of Morton College, Oxford, and became a writer for the press He wrote regularly for The Daily Vews press He wrote regularly for The Daily vews and for other journals, partly on politics but more frequently on books, his work being marked by wide knowledge, graceful style and real, though unobtrusive, scholarship Working to the end, he died July 20, 1912

Lang's books are very numerous and on a variety of subjects Some are volumes of these with the subjects.

variety of subjects Some are volumes of poetry, such as Grass of Parnassus, others are translations, the most notable being those of the Iliad and the Odyssey, in which he collaborated He also wrote a History of Scolland, and biased but scholarly books on Mary, Queen of Scots and Joan of Are, also on the Young Pretender and the rising of 1745 A Monk of Fife is a novel and with Rider Haggard he wrote The World's Desire On anthropology and folklore he was something of anthropology and folklore he was something of

Lang Cosmo Gordon British prelate A son of Rev J Marshall Lang, principal of the University of Aberdeen, he was born Dec 31, 1864, and educated at Glasgow and Balliol College, Oxford He became a follow of Magdalen College, entered the Church and from 1890-93 was vicar of S Marry the Virgin at Oxford, and from 1896 to 1901 vicar of Portsea Afterwards he became successively Bishop of Stepney, Canon of S Paul's and (in 1909) Archbishop of York In 1928 he was appointed Archbishop of Canterbury in succession to Dr Davidson Canterbury in succession to Dr Davidson

Lang John Thomas Australian politician
Born in Sydney, Dec 21, 1876, he
became mayor of Auburn and a prominent
figure in the Labour movement In 1913 he
entered the legislative assembly of New South
Wales where he became leader of the Labour
party From 1920-22 he was Treasurer and
from 1925-27 he also held the office of Prime
Minister In 1930 Lang again became Prime
Minister, and he was prominent during the
financial crisis of 1931, when he advocated
the policy of repudiation, and in March refused
to find money for the interest due in London to find money for the interest due in London on New South Wales loans During 1931 and on New South Wales loans During 1931 and 1932 he carried on a struggle against the government of the Commonwealth that passed legislation to compel New South Wales to meet its liabilities, but in 1932 the general election went against him, and he left office

Langdale Two valleys in the Lake District Great Langdale is near Grasmere and is 5 m long At Elterwater it meets Little Langdale, a somewhat shorter valley Two pikes at the top of Great Langdale are known as the Langdales, they are Harrison Stickle (2400 ft) and Pike o' Stickle (2330 ft) A village in Great Langdale is called Langdale It is 4 m. from Ambleside

Langholm Burgh of Dumfriesshire It is an the Esk, 21 m from Carlisle, on the LNE Rly Old Langholm is on one side of the river and New Langholm on the other The burgh is noted for its sheep fairs and tweed is manufactured Near is Langholm Lodge, a seat of the Duke of Buccleuch Pop (1931) 2448

Langland William English poet. He was born at Cleobury Mortimer about 1330 and became a priest. He passed most of his life in London without a regular charge and died in 1400 or thereabouts. Langland is famous as the author of The Vision of Picrs Ploiman, a picture of the life of the time in England which is invaluable. The scene is the Malvern Hills, near his home

an authority, his books including, Custom and who compelled John to sign Magna Charta, Myth and Magic and Religion His volumes and as a defender of the church and the of essays on literature such as Letters to Dead rights of the English nation He died July 9, Authors and Books and Bookmen, are perhaps his most enduring work 1228, and was buried at Canterbury The theological Commentaries he wrote were valued by scholars in the Middle Ages Transfer Born

Langtry Lily English actress Born in Jersey, Oct. 13, 1852, she was the daughter of a clergyman there, Rev W C Le Breton In 1874 she married Edward Langtry, and in 1881 she appeared on the London stage where her beauty and ability soon made her the most popular actress of the day She remained for many years a great favourite, her successes including parts in She Stoms to Conquer, Macheth, and in She Stoops to Conquer, Macbeth, and As Fou Like It She played also in South Africa and the United States and for a time managed a London theatre She also owned racchorses Her second husband was Sir Hugo de Bathe She died Feb 12, 1929

Language Any expression of thought, ance developed by mankind from inarticulate gesture into articulate speech for recording and communicating ideas Language is not heritable, but acquired by each individual after birth It may comprise isolated, agglu-tinative and inflected, or analytic and synthetic tinative and inflected, or analytic and synthetic forms Developed in various primary areas, these passed into local dialects by migration and settlement, being classifiable into major groups such as Indo-European, Semitic, Hamitic, Altaic, Austric, Bantu, Amerind and the like Dialectic branches are especially abundant in isolated regions, eg, mountain valleys and islands Sign language and drum language are conventional modes of communication independent of the tongue

Languedoc One of the provinces of France before 1789 It was in the south-east of the country, lying to the north of the Pyrenees and the west of the Rhône Its chief town was Toulouse The Albigenses and then the Camisards lived in the district The word means the langue, or language, d'oc, because the inhabitants pronounced the French word for yes as oc

Lankester Sir Edwin Ray. English Start, the son of a medical man, he was educated

1847, the son of a medical man, he was educated at S Paul's School, London, and Downing College, Cambridge He began to lecture at at S Paul's School, London, and Downing College, Cambridge He began to lecture at Exeter College, Oxford, and from 1874-90 was Professor of Zoology at University College, London From 1891 to 1898 he was Linacre Professor of Comparative Anatomy at Oxford, and from 1898 to 1907 director of the Natural History Museum at South Kensington. One of the leading zoologists of his time, Lankester wrote text books, and after his retirement devoted his talent to popularising the sciences of which he was a master His volumes include, The Kundom of Man. Diversions of a Natur-In escene is the Malvern Hills, near his home

Langside District of Glasgow It is famous because here on Mary alist. Secrets of the Earth and Sea and Science from an Easy Chair In 1906 he was president of the British Association and he helped to mary escaped to England. Langside is now in the city of Glasgow

Langside District of Glasgow It is famous because here on Mary from an Easy Chair In 1906 he was president of the British Association and he helped to found the Marine Biological Association Mary escaped to England. Langside is now in the city of Glasgow

Langside District of Glasgow It is famous because here on Mary from an Easy Chair In 1906 he was president from an Easy Chair In 1906 he was president of the British Association and he helped to found the Marine Biological Association Mary escaped to England. Langside is now in the city of Glasgow

Langside District of Glasgow It is famous because here on Mary from an Easy Chair In 1906 he was president from an Easy Cha

Mary escaped to England. Langside is now in the city of Glasgow

Langton Stephen English prelate Born about 1150, he studied in Paris and became a priest In 1206 he was made a cardinal and in 1207 was appointed Archbishop of Canterbury, but owing to the opposition of King John, he did not obtain the post until 1213, spending his time in France Langton is best known as one of the leaders of the barons in the land was made a general In Italy he added to his reputation at Marengo, and he held high commands at Austerlitz, Jena and Friedland He also served in Spain and Portugal, and was made Duke of Montebello and a

seriously wounded, and died May 31, 1809

Lanolin Name given to hydrous wool tonacious substance derived from the skin of the sheep It contains cholesterin and the ethers of certain fatty acids, is absorbed readily by the skin used as the basis of many ointments for rapid absorption of drugs

French Charles Louis. Lanrezac He was born in and entered the soldier Guadeloupe, July 31, 1851, and entered the army He passed through the school of war and made a reputation as a student of strategy He rose to the rank of general, and in 1914, when war broke out, he was a member of the Council of War and head of the 5th army He led his army at the battle of Charlerol, but he did not agree with the French plan

out ne did not agree with the French plan of campaign, and his relations with Joffre were bad On Sept. 3 his command was taken from him He died Jan 18, 1925

Lansbury Goorge English politician. Born Fob 21, 1859, he emigrated when young to Australia Having returned to England in 1885, he became known as a socialist politician. In 1903 he was aleated as a socialist politician. In 1903 he was elected to the borough council of Poplar which he also represented on the London County Council From 1910 12 he was Labour M P for Bow and Bromley and he was again elected in 1922 and at subsequent elections From 1929 31 he was First Commissioner of Works and in 1931, when nearly all the Labour leaders had lost their scats in Parliament, he was selected to lead the Opposition. He resigned leadership for health reasons in Oct , 1935

Lansdown Hill outside Bath On it Beckford and called Beckford's Tower On July 5, 1643, it was the scene of a fight between the Royalists and the Parliamentarians, in which the former were driven back with heavy loss On the hill is a monument to Sir Bevil Grenville, who was killed

ansdowne Marquess of English of Fitzmaurice The early Fitzmaurices were barons of Kerry in the Irish peerage, and in 1722 one of them was made Earl of Kerry A younger son of the 1st Earl was made Earl of Shelburne in 1763, and the 2nd Earl of Shelburne was made Marquess of Landsowne in 1784 The family estates are in Wiltshire, where is the family seat of Bowood The marquess has also estates in Ireland eldest son is known as the Earl of Kerry

William Petty Fitzmaurice, the 1st marquess Is better known as the Earl of Shelburne (q v) In 1809 Henry Petty Fitzmaurice became the 3rd marquess He had already been Chan-cellor of the Exchequer (1806 07), and for the rest of his life he was one of the leaders of the Whig party, holding high office under successive Whig governments In 1852 and 1855 he refused to become premier and later he refused a dukedom Died Jan 31, 1863

Marquess of. English Lansdowne statesman Henry Charles Keith Fitzmaurice was born Jan 1845, and was educated at Eton and Balliol College, Oxford In 1866 on the death of his father, the 4th marquess, he succeeded to the titles and estates and entered upon his long career of public service career of public service. He held a junior office in the Liberal ministry of 1868 74 and again for a short time in 1880 In 1883 he was appointed Governor General of Canada

At the battle of Aspern he was and from 1888 93 he was Governor General of India In 1895, as a Liberal Unionist Lord Lansdowne was made Secretary for War, a post he retained until he became Foreign Secretary in 1900

Resigning office in 1905 he became leader of the Unionist party in the House of Lords He was concerned in the negotiations of 1914 on the Irish question, and in 1917 advocated a peace with Germany Ho died June 3 1927 His life was written by Lord Newton 1929

Lord Lansdowne married a daughter of the Duke of Buccleuch His younger son, Lord Charles Mercer Nairne, was killed in the Great War, the elder son having, as Earl of Kerry, sat in the House of Commons became the 6th marquess on his father's death.

Lansdowne House London residence It is in Berkeloy Square, and was built in the 18th century by the brothers Adam Additions were made to it later Long the London house of the Marquess of Lansdowne, it was sold in 1929

Lansing Robert. American politician Oct. 17, 1864, he was educated at Amhersa College He became a lawyer, was employed on several important international cases and was closely associated with the government. In June, 1915, he succeeded W J Bryan as Secretary of State and he held that position throughout the war period, when his knowledge of international law was extremely useful He attended the Poace Conference in Paris He attended the Peace Conference in Paris, but in Feb , 1920 resigned, and returned to his legal practice at Watertown Lansing wrote The Peace Negotiations and The Big Four of the Peace Conference

Laocoon Group of statuary It was discovered in Rome in 1508, and is now preserved in the Vatican Museum It represents the final episodo in the Greek legend of the Trojan priest Laocoon, where two serpents strangle him and his two sons. The raised arms and some parts of the serpents have been restored

Laodamia Character in Greek legend.
The wife of Protesilaus, who was killed during the slege of Troy she implored the gods to allow him to return to her from Hades for three hours On his return to Hades she died and so went with him

Laodicea Name of several cities founded or renamed by Seleucid kings The chief, situated on the River Lycus near Colossae, was renamed by Allie (3rd cent B C) after his wife Laodice was renamed by Antiochus (3rd cent BC) after his wife Laodice Its early Christian community was addressed by Paul in his epistle to the Colossians and reproved Its early for lukewarmness in Revelation (Ch iii )

Laomedon in Greek legend the King of Troy For an offence Zeus ordered Apollo and Poseldon to serve Laomedon in return the king promised them rewards, but when the time came he refused to honour his undertaking Poseidon therefore sent a sea monster to ravage his lands, and to save them it was decided to sacrifice the to save them it was decided to sacrinee the king's daughter, Hesione, to the beast. Hercules saved the princess, but again Lao medon refused the promised reward. For this he and his soms, save one, were killed The survivor, Priam became King of Troy For

Laon City of France It is 87 m from Paris, and has a magnificent cathedral and an old palats de justice. Owing to its position it was an important fortress in

the Middle Ages and a residence of the Carlovin-gian kings There was much fighting here during the Great War The town was entered in Aug 30, 1914, by the Germans who remained in possession until Oct., 1918 Pop 19,125

Larbert Town of Stirlingshire It is just outside Falkirk on the

Lâo-Tsze Chinese philosopher He Be, and was the author of a work called Tâoteh king, one of the sacred books of the Chinese He teaches the religion called Tâoteh conform to Tao, and to Tao they at last return," Tao being the supreme being He taught also a belief in the transmigration of souls He was librarian to one of the ruling princes and finished his life in a hermitage princes and finished his life in a hermitage

La Paz Capital of Bolivia. It is the Sucre is the legal capital 1t stands high up in the mountains in the centre of the country Railway lines connect it with the coast at Mollendo and with other places La Paz is a prosperous trading centre, with a university and some fine buildings Pop 146,930

Another La Paz is a small port of Argentine

Another La Paz is a small port of Argentina, on the Parana river A third La Paz is in Mexico This is a seaport

Lapis Lazuli Beautiful blue mineral it consists of silicate of soda, lime and alumina with sulphur and ohlorine It has been valued as an ornamental stone from ancient times, being known to Pliny as sapphirus It is used still in mosaic work, and was the original source of the pigment ultramarine

Laplace Marquis de French scientist. Laplace Pierre Simon Laplace was born March 28, 1749, and showed exceptional gifts as a mathematician. In 1767 he became a teacher of this subject in Paris and later a professor of analysis. He published the result of his researches on the integral calculus. In 1796 his famous book on astronomy, Exposition du Système du Monde appeared, and in 1799 the still more famous Mécanque Céleste His researches into the movements of the tides, the researches into the movements of the tides, the planets and the solar system generally have won for him a reputation as the greatest of French astronomers. He was equally great as a physicist, and in physics, too, his researches were of profound significance. Laplace was made a marquis and died March 5, 1827

Lapland District of Europe In the extreme north, it is in Sweden, Norway and Finland It is a thinly peopled land of forests and morasses, owing its name to the Lapres, a race short in stature, with high check bones and snub noses They are nomads and live by hunting and fishing They number about 30,000 in Europe and there is a colony of them in Alaska

La Plata Rio de Name of a river cstuary and city in South America The estuary is made by two great rivers, Uruguav and Parana, and divides Argentina from Uruguay It is about 200 m long and at its mouth about 150 wide. There are several ports on the estuary, which is a creat trading route

Larbert Town of Stirlingshire It is just outside Falkirk on the River Carron and 24 m from Edinburgh. It is a railway junction Pop 1500

Larceny In English law a form of theft. The stealing and carrying away of goods "with intent permanently to deprive the owner thereof," constitutes larceny It is a felony and can be punished by penal servitude for as much as 14 years. For simple larceny, or common theft, the maximum sentence is three years

Earth trees (Larx) The common larch, L curopaca, native in the Alps, is a lofty tree from 80 to 140 ft. high, with needle-like leaves and small cones. Its hard, tough timber serves for poles, pitwood, rallway sleepers and domestic building, and it also furnishes turpentine and bark for tanning Largely planted in Britain it suffers much from the larch canker, fungus, hence other species. larch canker fungus, hence other species, e.g., Japanese red and N American western larch, are being tried

ares Roman household divinities Origi-Lares nally each family land had its tutelary deity, who became the centre of the household worship. The lararium, or shrine, usually contained images or pictures of vouths holding horns of plenty and plates Public lares had chapels at crossroads

Largo Seaport of Fifeshire It is on Largo Bay, an opening of the Firth of Forth, 3 m from Leven It has a fishing harbour, and romains of a castle Largo Law is a hill near, 960 ft. high Pop 2274.

Largs Burgh and watering place of Ayr-shire It stands on Largs Bay, 43 m from Glasgow, on the L M S Rly Near here, in 1263, a Norwegian army was defeated by King Alexander III and Norway was compelled to give up the Hebrides Pop (1931) 6115

Lark Name of a family of birds (Alaudidae)
There are many species but only a few
are seen in Great Britain. The chief are the are seen in Great Britain. The chief are the skylark and the wood lark, both of which make their nests in the country. The crested lark, the shore lark and others visit the country and, like the other larks, are fairly general in the warmer parts of Europe and Asia

Larkspur Popular name for the flower also called the delphinium

Larne Scaport, market town and urban district of Northern Ireland It is in Co Antrim, 24 m from Belfast, and stands at the mouth of Lough Larne, an opening of the Irish Sea. The town has a good harbour Pop (1926) 8100

La Rochefoucauld Duc de French Born in Paris, Sopt 15, 1613, François de la Rochefoucauld served in the army, He mixed in the tangled politics of the time and figured in the wars of the Fronde, after which his time was passed mainly in social life in Paris In 1663 the duke published the book on which his former rectangles. are several ports on the estuary, which is a great trading route.

The city, of La Plata is in Argentina, 35 m, from Buenos Aires and five from its port, Ensenada It is a modern place and has some fine buildings and parks Pop (1931) 182,401

Lapwing Common British bird (Panelus In 1663 the duke published the book on which his fame rests, Reflexions ou Sentences et Maximes Morales He also wrote some ployer and the peewit It is found in Europe and Asia and winters in India and Africa It has four toes Its back is greenish and it

emergence from the egg It usually differs considerably from the adult form In marine larvae are pelagic, while the adult lives on the sea bottom Among the amphibia some adult forms are terrestral, while their larvae chess player In 1892 he won the champion are seased to the sease of the larvae is the of Englager. are aquatic Among insects, the larva is concerned with feeding and growth while the adult is adapted chiefly for reproduction

Inflammation of the muc Laryngitis ous membrane of larynx, or organ of voice The acute form, larynx, or organ of voice The actue form, resulting from catching cold, inhaling irritant vapours, swallowing hot fluids, or overstraining the voice, may be attended by hoarseness, a barking cough, a choking feeling, difficulty in swallowing, and impeded breathing. If repeated, or produced by excessive smoking, it may become chronic When the epiglottis it may become chronic When the epiglottis swells the affection is called oedematous and this serious condition may result from phthisis or syphilis

Treatment -Give inhalations of steam con taining Friar's balsam (2 teaspoonfuls to 1 quart of boiling water), keep the patient in a warm room, and insist on absolute rest of the voice For children ipecacuanha is a good remedy († teaspoonful every half hour until vomiting occurs) and a steam kettle in the room is soothing

Laryngoscope Surgical instrument tion of the interior of the larynx and traches It consists of a mirror fixed to a long handle, another mirror being adjusted to the brow of the operator and reflecting a powerful beam of light on the first mirror, which is placed at the back of the mouth

In human beings a cartila Larynx In human beings a cartila ginous chamber lying below and continuous with the pharynx and leading to the trachea or windpipe The cartilages forming the larynx are the thyroid in front, a ring like oricord and two small arytenoids. slit like opening into the pharynx, the ttis, is bounded by a movable flap or epiglottis, which projects behind the tongue The larynx contains the vocal cords which extend across the cavity and are concerned in the production of the voice

La Salle Sieur de French explorer René Robert Cavaller de La Salle was born at Rouen, Nov 22, 1643, and went out when a youth to Canada He made several voyages along the St Lawrence and the Mississippi, and was the first to trace the Mississippi to its mouth in the Gulf of Mexico (1682) The vast Mississippi region he annexed (1682) The vast Mississippi region no annualisas a French possession and was appointed its governor in 1684 he landed by mistake in governor In 1684 he landed by mistake in Texas and spent two years in trying to reach the Mississippi While attempting to return to Canada he was murdered by his men, who became desperato, March 20, 1687

Lascar Indian word used by the Portu gueso for inferior army servants ter or camp followers, eg, gun lascars Long applied to Asiatic scamen, especially Indians appear to Assatic seather, especially Indians on coasting or ocean going vessels it is officially recognised by the Merchant Shipping Acts as excluding non Indians,  $\epsilon g$ , Malays and Chinese The Indian Government now limits it to deck hands

ship of England and in 1893 the championship of the United States In 1891 he became the world's champion and he retained this title until Casablanca beat him in 1920 In 1921 he was again beaten by Casablanca

Laski Harold J Linglish political philosopher Born in Manchester, June 30, 1893, he was educated at Manchester Grammar School and New College, Oxford From 1914 1916 he lectured in history at Migill University, and from 1916 1920 at Market and Later Valor Cornected and Later Harvard and, later, Yale Connected since 1920 with the London School of Science, in 1921 he became Vice-Chairman of the British Institute of Adult Education He has act on many public committees, and has published articles on political economy

as Palmas Scaport, city and health resort of the Canary Islands It stands on Grand Canary and its main industry is shipping, as steamers call here to coal. The buildings include a 16th century cathedral There is a good modern

narbour Pop (1931) 79,441 Lassalle Fordinand German socialist Born April 11, 1825, at Breslau, the son of a merchant, he was well educated, but adopted no profession For some years he lived in Paris, Hoine being among his friends Having returned to Germany he took part in the rising of 1848 and was put in prison Later he published his book, System of Acquired Rights, and in 1863 helped to form a national party of workers A love affair with Helene von Donniges involved him in a digal et Geneva and on him 11864 he died duel at Geneva and on Aug 31, 1864, he died from his wounds The duel is the subject of Meredith's novel, The Tragic Comedians

Lasso Hemp rope or rawhide thong ending in a slip noose used for catching and throwing cattle on the ranches It varies in length from 35 to about 100 ft. In the Argentine it is attached to the girth, but in North America to the saddle horn. A form of lasso is used in Siberia for catching reindeer

ast Measure for fish A last consists of 13 200 fresh herrings It is used in certain ports on the east coast of Great Britain as an alternative to the cran which is used in other ports

Last Supper Paschal meal shared by ciples on the eve of His crucifixion. It is commemorated throughout Christendom in the Holy Communion or Eucharist (1 Cor x) It has inspired painters in all ages, notably in Leonardo da Vinci's wall painting in Milan See EUCHARIST

Laszlo de Lombo British painter Born in Budapest in 1869 he was educated there and studied art in Paris His portraits attracted much attention and having settled in England, he was commissioned to paint King Edward VII, Queen Alexandra and other persons of note In 1914 he was naturalised

Lascelles Name of a famous York-shire family Its head is the Farl of Harewood (qv), and his eldest son is ciled Viscount Lascelles.

Latakia Seaport of Syria. It is 70 m from Tripoli and has a good harbour from which the produce of the country is shipped It occupies the site of Laodicea, and excavations have revealed romains of the

Lateran Palace in Rome, once the residence of the popes. It was built in the 16th century on the site of an older building and is now a museum. Near is the Church of S John Lateran, long the papal church and therefore regarded as the other church of the Christian world. There

have been five Lateran Councils, the most important being the fourth held in 1215, which declared the supremacy of the Bishop of Rome, defined the doctrine of transubstantia-

of Home, defined the doctrine of tallistostatuta-tion and made provision for a crusade The treaty of 1929 with Italy which recog-nised the independence of the Vatican state, is called the Lateran Treaty

Laterite Deposit of yellowish or reddish coloured clay It is found in Laterite coloured clay It is found in India, the Sudan and parts of South America. These clays are very extensive and of considerable thickness, and result from the decomposition of rocks rich in iron minerals. Laterite is used locally for making mortar, cement and also tiles, etc.

Lathe Machine used for turning and shaping articles of wood, metal or the simple "turn bench" of the watchmaker, where the work is rotated by a bow, to the modern types with crank and flywheel mechanically above.

cally driven, often of great size

Lathom 3 m from Ormskirk and was once a market town

Lathom House, the seat of the Earl of Lathom House, the scatt of the Ball of Lathom, was formerly a castle and a seat of the Stanleys, from whom it passed in 1730 In 1645-46 the castle was defended by Charlotte, Countess of Derby, on behalf of Charles I, but she was compelled to surrender it after a pro longed siege It was then destroyed The longed siege It was then destroyed T present house was built in the 18th century

The title of Earl of Lathom was given in 1880 to Edward Bootle-Wilbraham, 2nd Baron Skelmersdale, who represented the two old families whose names he bore

Latimer Hugh English bishop Born in 1490, or 1491, at Thurcaston near Leicester, the son of a yeoman, he became a clergyman and obtained a living in Wiltshire In 1535 he was made Bishop of Worcester, but in 1539 he was imprisoned for not accepting the Six Articles He resigned his bishopric, but soon roturned to it Meanwhile he had identified himself with the reformers, and during the reign of Edward VI devoted himself to assisting Cranmer in furthering the Reformation and in preaching Soon after Mary's to assisting Cranmer in iurthering the Reforma-tion and in preaching Soon after Mary's accession in 1553 he was put in prison In Sept., 1555, after a trial at Oxford, he was found guilty of heresy and was burned with Ridley on Oct. 16 The spot is now marked by the Martyrs' Memorial Some of Latimer's sermons are extant and have been published

Latin Language of the Romans and one of the great classical languages of the western world. It belongs to the Indo-European group and was spoken by the Latini, a people living in central Italy some centuries before Christ. It became the language of the a people living in central Italy some centuries before Christ. It became the language of the Romans and in it their great literature was written. The century before Christ and the early years of the Christian era were its great age. To this time belong Virgil, Cleero, Horace and the other great writers of classical Latin. It is impossible to exaggerate the influence of the Latin language on literature in the west.

A state of Livonia, founded in the 15th

earlier city The town gives its name to a kind of Europe and in North America It is the of tobacco grown in Syria Pop 21,404

Lateran Palace in Rome, once the popes It was built in the 16th century on the site of an older building and is now a museum

Near is the Church of S John Lateran, long tion following the monastic tradition, was conducted in Latin, and our public schools show signs of this influence to-day

Latitude Angular distance at the centre of the earth of any point upon the surface measured north or south from the equator The equator is regarded as 0° of latitude, and parallels of latitude are imaginary circles on the earth's surface parallel to the equator A degree of latitude equals 691 m

Latitudinarians (Lat latus, broad) certain divines in the Church of England in the 17th and 18th centuries They included Gilbert Burnet, Chillingworth, Tillotson and Hales, and were known for their liberal opinions, regarding creeds as of secondary importance. importance

Latium District of Italy Before Rome became great, a district to the south of the Tiber was inhabited by the Latini and called Latium The towns in it, Alba Longa being one, formed themselves into a league which in the 4th century was engaged in a war with Rome The Latini were beaten and their The name survives as that of the language spoken by the Romans

Trappe Monastery near Alencon in France It was founded in 1140 as a Cistercian house and some remains of its church still stand It is famous because it gave its name to the Trappist Order which was

founded here in the 17th century

atten Variety of brass or bronze It in the form of thin sheets for making memorial plates and vessels in churches The term is applied also to brass sheets for wire-drawing, and to the mild steel plates used in the manufacture of tin-plate

Latter Day Saints Formal and of the body known more usually as Mormons It is really the Church of Jesus Christ and Latter Day Saints, and was adopted in 1834 See MORMONS

Latvia Republic of Europe It consists of Courland and other districts that before 1918 were part of Russia Its area Its area is 24,440 sq m and the population is (1930) 1,900,045 It has a coastline of 338 m on the Gulf of Riga and the Baltic Sea Its other boundaries are Russia, Estonia and Lathuania Riga is the capital and the chief seaport, other places are Libau, Dvinsk, Mitau and Windau The country is flat and the soil fertile There are many rivers, the chief being the Dvina Agriculture is the chief occupation of the people, and rve, bariey, oats, flax and potatoes are grown A good deal of the land is forest. There is some fishing About three-

quarters of the people are Letts and over half are Protestants The language is Lettish Latvia is governed by a president, elected for three years, a cabinet and a parliament of

emergence from the egg It usually differs con siderably from the adult form In marine Lasker Born Dec 24, 1868, he soon forms, such as mollusca and crustacea, the showed extraordinary genius as a mathe larvae are pelagic, while the adult lives on the matchan. On this subject he wrote a good sea bottom Among the amphibia some adult forms are terrestral, while their larvae are aquatic Among insects the larva is concerned with feeding and growth while the adult is adapted chiefly for reproduction

Inflammation of the muc Laryngitis ous membrane οf larynx, or organ of voice The acute form, resulting from catching cold, inhaling irritant vapours, swallowing hot fluids, or overstraining vapours, swallowing not nuture, or overstraining the voice, may be attended by hoarseness, a barking cough, a choking feeling, difficulty in swallowing, and impeded breathing If repeated, or produced by excessive smoking, it may become chronic When the epiglottis swells the affection is called oedematous and this serious condition may result from phthisis or syphilis

Treatment -Give inhalations of steam con taining Friars balsam (2 teaspoonfuls to 1 quart of boiling water), keep the patient in a warm room, and insist on absolute rest of the voice For children, incacuanha is a good remedy († teaspoonful every half hour until vomiting occurs), and a steam kettle in the

room is soothing

Laryngoscope Surgical instrument used for the examina It of the interior of the larynx and trachen It consists of a mirror fixed to a long handle, another mirror being adjusted to the brow of the operator and reflecting a powerful beam of light on the first mirror, which is placed at the back of the mouth

Larynx In human beings a cartila ginous chamber lying below and continuous with the pharynx and leading to the trachea or windpipe The cartilages forming the larynx are the thyroid in front, a ring like cricord and two small arytenoids A silt like opening into the pharynx, the glottis, is bounded by a movable flap or epiglottis, which projects behind the tongue The larynx contains the vocal cords, which extend across the cavity and are concerned in the production of the voice

La Salle Sieur de French explorer René Robert Cavaller de La Salle was born at Rouen, Nov 22, 1643, and same was born at Rouen, Nov 22, 1643, and went out when a youth to Canada He made several voyages along the St. Lawrence and the Mississippi, and was the first to trace the Mississippi to its mouth in the Guif of Mexico (1682). The vast Mississippi region he annexed as a French possession and was appointed its governor In 1684 he landed by mistake in Texas and spent two years in trying to reach the Mississippi While attempting to return to Canada he was murdered by his men, who became desperate, March 20 1687

Lascar Indian word used by the Portu Lascar guess for interior army servants or camp followers, eg, gun lascars Long applied to Asiatic seamon, especially Indians on coasting or ocean going vessels it is officially recognised by the Merchant Shipping Acts as excluding non Indians, eg, Malays and Chinese The Indian Government now limits it to deck hands

differs con In marine Lasker Emanuel German chess player Born Dec 24, 1868, he soon deal, at the same time becoming famous as a chess player In 1892 he won the champion ship of England and in 1893 the championship of the United States In 1894 he became the world schampion and he retained this title until Casablanca beat him in 1920 In 1921 he was again beaten by Casablanca

ASK1 Harold J English political philo LASK1 sopher Born in Manchester, June 30, 1893, he was educated at Manchester Grammar School and New College, Oxford From 1914-1916 he lectured in history at Middll University. University, and from 1916-1920 at d and, later, Yale Connected since M'Gill University,
Harvard and, later, Yale Connected since
1920 with the London School of Science, in
1921 he became Vice Chairman of the British
1922 he became Vice Chairman of the British
1923 he became Vice Chairman of the British
1924 he became Vice Chairman of the British
1925 he became Vice Chairman of the British
1925 he became Vice Chairman of the British
1926 he became Vice Chairman of the British
1927 he became Vice Chairman of the British
1928 he became Vice Chairman of the British many public committees, and has published articles on political economy

Las Palmas Seaport city and health resort of the Canary Islands It stands on Grand Canary and its main industry is shipping, as steamers call here to coal The buildings include a 16th century cathedral There is a good modern narbour Pop (1931) 79,441

Lassalle Ferdinand German socialist. Born April 11, 1825, at Breslau, the son of a merchant, he was well educated, but adopted no profession For some years he lived in Paris, Heine being among his friends Having returned to Germany he took part in the rising of 1848 and was put in prison Later he published his book System of Acquired Rights, and in 1863 helped to form a national party of workers A love affair a national party of workers A love affair with Helene von Donniges involved him in a duel at Geneva and on Aug 31, 1864, he died from his wounds The duel is the subject of Meredith's novel, The Tragic Comedians

Lasso Hemp rope or rawhide thong ending in a slip noose used for catching and throwing cattle on the ranches It warles in length from 35 to about 100 ft. In the Argentine it is attached to the girth, but in North America to the saddle horn A form of large it used in Siberia for extension residence. lasso is used in Siberia for catching reindeer

Last Measure for fish A last consists of 13 200 fresh herrings. It is used in certain ports on the east coast of Great Britain as an alternative to the cran which is used in other ports

Last Supper Paschal meal shared by ciples on the eve of His crucifixion It is commemorated throughout Christendom in the Holy Communion or Eucharist (1 Cor x.) It has inspired painters in all ages notably in Leonardo da Vinci's wall painting in Milan See EUCHARIST

Laszlo de Lombo Philip Alexius ter Born in Budapest in 1869, he was educated there and studied art in Paris His Was His portraits attracted much attention and, having settled in England, he was commissioned to paint King Edward VII, Queen Alexandra and other persons of note In 1914 he was naturalised

Latakia Seaport of Syria. It is 70 m from Tripoli and has a good Lascelles Name of a famous York. Latakia Seaport of Syria. It is 70 m from Tripoli and has a good farl of Harewood (q t) and his eldest son is called Viscount Lascelles. Latakia Seaport of Syria. It is 70 m harbour from which the produce of the country is shipped. It occupies the site of Lacodices, and excavations have reversed remains of the excavations have revealed remains of

Palace in Rome, once Lateran residence of the popes It was built in the 16th century on the site of an older building and is now a museum

Near is the Church of S John Lateran, long the papal church and therefore regarded as the mother church of the Christian world There have been five Lateran Councils, the most important being the fourth held in 1215, which declared the supremacy of the Bishop of Rome, defined the doctrine of transubstantia-

The treaty of 1929 with Italy which recognised the independence of the Vatican state, is called the Lateran Treaty

Laterite Deposit of yellowish or reddish coloured clay. It is found in India, the Sudan and parts of South America. These clays are very extensive and of considerable thickness, and result from the decomposition of rocks rich in iron minerals. Laterite is used locally for making mortar, cement and also tiles, etc.

Lathe Machine used for turning and shaping articles of wood, metal or other materials Lathes vary in character from the simple "turn bench" of the watchmaker, where the work is rotated by a bow, to the modern types with crank and flywheel mechani cally driven, often of great size

Lathom Village of Lancashire It is my from Ormskirk and was

once a market town

Lathom House, the seat of the Earl of Lathom, was formerly a castle and a seat of Interest of Derby, on behalf of Charles I, but she was compelled to surrender it after a prolonged slege. It was then destroyed. The longed siege It was then destroyed T present house was built in the 18th century

The title of Earl of Lathom was given in 1880 to Edward Bootle-Wilbraham, 2nd Baron Skelmersdale, who represented the two old families whose names he bore

Latimer Hugh English bishop Born in 1490, or 1491, at Thurcaston near Leicester, the son of a yeoman, he became a clergyman and obtained a living in Wiltshire In 1535 he was made Bishop of Worcester, but in 1539 he was imprisoned for not accepting the Six Articles He resigned his bishopric, but soon returned to it Meanwhile he had identified himself with the reformers, and during the reign of Edward VI devoted himself to assisting Granmer in furthering the Reformato assisting Cranmer in furthering the Reformato assisting cranmer in turtnering the Reformation and in preaching Soon after Mary's accession in 1553 he was put in prison Int. Sept., 1555, after a trial at Oxford, he was found guilty of heresy and was burned with Ridley on Oct 16 The spot is now marked by the Martyrs' Memorial Some of Latimer's sermons are extent and have been published. sermons are extant and have been published

Latin Language of the Romans and one of the western world It belongs to the Indo-European group and was spoken by the Latini, a people living in central Italy some centuries before Christ It became the language of the Romans and in it their great literature was Ruropean group and was spoken by the Latini, a people living in central Italy some centuries before Christ. It became the language of the Romans and in it their great literature was written. The century before Christ and the carly years of the Christian era were its great great are To this time belong Virgil, Cleero, Horace and the other great writers of classical Latin. It is impossible to exaggrerate the influence of the Latin language on literature in the west. Is forest. There is some fishing. About three-quarters of the people are Letts and over half are Protestants. The language is Lettish Latria is governed by a president, elected for three vears, a cabinet and a parliament of one house. Proportional representation is the railway system and a state bank. There is a small army recruited by compulsory service.

A state of Livonia, founded in the 15th

earlier city The town gives its name to a kind of Europe and in North America It is the of tobacco grown in Syria Pop 21,404 foundation of French, Italian, Spanish and Tobacco Palace in Rome, once the other romance languages, and has contributed largely to the development of English It became the language of the Church and of education, and in consequence the language of botany and other sciences For long, education, following the monastic tradition, was conducted in Latin, and our public schools show signs of this influence to-day

atitude Angular distance at the centre of the earth of any point upon the surface measured north or south from the equator The equator is regarded as 0° of latitude, and parallels of latitude are imaginary circles on the earth's surface parallel to the A degree of latitude equals 691 m equator

atitudinarians (Lat latus, broad) given certain divines in the Church of England in the 17th and 18th centuries They included Gilbert Burnet, Chillingworth, Tillotson and Hales, and were known for their liberal opinions, regarding creeds as of secondary importance. importance

Latium District of Italy Before Rome became great, a district to the south of the Tiber was inhabited by the Latini south of the Tiber was inhabited by the Latini and called Latium The towns in it, Alba Longa being one, formed themselves into a league which in the 4th century was engaged in a war with Rome The Latini were beaten and their territory became part of the republic of Rome The name survives as that of the language spoken by the Romans

La Trappe Monastery near Alencon in France It was founded in 1140 as a Cistercian house and some remains of its church still stand It is famous because it gave its name to the Trappist Order which was founded here in the 17th century

Latten Variety of brass or bronze It consists of copper and zinc used in the form of thin sheets for making memorial plates and vessels in churches The term is applied also to brass sheets for wire-drawing, and to the mild steel plates used in the manufacture of tin-plate

Latter Day Saints Formal and name of the body known more usually as Mormons It is really the Church of Jesus Christ and Latter Day Saints, and was adopted in 1834 See MORMONS

Latvia Republe of Europe It consists of Courland and other districts that before 1918 were part of Russia Its area is 24,440 sq m and the population is (1930) 1,900,045 It has a coastline of 338 m on the Gulf of Riga and the Baltic Sea Its other boundaries are Russia, Estonia and Lithuania Riga is the capital and the chief scaport; other places are Libau, Dvinsk, Mitau and Windau The country is flat and the soil fertile There are many rivers, the chief being the Dvina Agriculture is the chief occupation of the people, and rve, barley, oats, flax and potatoes are grown A good deal of the land is forest There is some fishing About three-

century, embraced what is now called Latvia, but after 1560 Courland became a duchy under the authority of Poland. In the 18th century Latvia was included in Russia.

In 1917 the Letts decided to press for independence In Nov, 1918, they declared their land a free state, and in Jan, 1921, their independence was recognised by the League of Nations, to which Latvia was admitted The country's boundaries were fixed and a period of steady progress began with socialism as a strong force in political life

Laud William English archbishop He at Reading, Oct 7 1573, and educated at S John's College, Oxford, of which he became a fellow He held several livings but his abilities and energy soon marked him out for a larger sphere Entering the Church he was made chaplain to several noble men and was soon chaplain to James I His advancement was rapid He was elected President of S John's Dean of Gloucestor, and in 1621 Bishop of S David's In 1626 Charles I made him Dean of the Chapel Royal From 1626 28 he was Bishop of Bath and Wells, and in 1628 he was made Bishop of London In 1633 he became Archbishop of Canterbury

The king's ecclesiastical policy in England and Scotland was inspired by Laud and was in general unwise and provocative It aimed at establishing uniformity of worship on some what narrow lines, and was the cause of much unrest, especially in Scotland In 1041 the House of Commons took action. Laud was im peached, and under a bill of attainder beheaded on Tower Hill, Jan 10, 1645 A notable high churchman, Laud accepted much of the ritual and creed of the Roman Church and disliked Puritanism in all its forms

Laudanum Name given to tincture of brown liquid, standardised to contain 0 75 per cent. of anhydrous morphine It is prepared by steeping powdered opium in dilute alcohol for some time, afterwards straining, pressing and filtering the product. Laudanum is used in prescribed doses as an anodyne and soporific

auder Sir Harry Maclennan Scottish comedian Born Aug 4, 1870, he ing as a coal miner His gift of carned a living as a coal miner. His gift of song and humour attracted attention, and in 1900 he appeared as a professional in London, becoming extraordinarily popular. Some of the songs he sang were his own compositions. In 1920 he was knighted and retired from the stars, but in 1931 he reanneaged in London. stage, but in 1931 he reappeared in London Lauder has written A Minstrel in France and Roamin' in the Gloamin

Lauderdale Duke of Scot-sh politician John Maitland was born at Lethington in East Lothian, May 24, 1616 a son of the 1st Earl of Lauderdale whom he succeeded in 1845. He became a leading spirit among the Covenanters but soon changed sides, and in 1650 returned to Scotland with Charles II Taken prisoner at the Battle of Worcester, he was not released until 1660 With Charles II on the throne Lauderdale

with Charles II on the throne Lauderdale became very prominent. He was a member of the Cabal and Secretary of State for Scotland, where he was responsible for the sayage perse rution of the Covenanters that took place between 1672 and 1680 He had also a good deal to do with the direction of affairs in England and in both countries he made himself hated He left office in 1680 and died in Aug., 1682 In 1672 Lauderdale was made a duke but the title died with him

Lauderdale Earl of Scottish title held by the family of Maltland They held land in Berwickshire, and in 1590 Sir John Maltland, Secretary of State under James VI, was made Lord Maltland of Thirle stane His son was made an earl, and John, the second earl, a duke When he died in 1682 the dukedom became extinct but the earldom passed to his brother, Charles, and has since remained in the family The carl is Hereditary Royal Standard Bearer for Scotland. His eldest son is called Lord Maitland and his seat is Thirlestane Castle in Berwickshire

Lauds Service in the Roman Catholic Church In the early church it was sung at daybreak. To day it is sometimes said after matins The Psalms 148, 149 and 150 are called the "lauds," or psalms of praise, and from these the service received its name

Laughing Gas Name given to nitrous by heating ammonium nitrate to 350°F, when by heating ammonium nitrate to 350°F, when the salt is resolved into the gas and water vapour It is a colourless, transparent gas with a sweet taste, and when inhaled produces insonsibility, hence its use as an anaesthetic in dental surgery and in operations of short duration See ANAESTHETICS

Laughing Jackass Australian name for a powerful bird, the largest of the kingfisher family (Dacelo gigas) With dull greenish blue, brown freckled plumage, it has a strident, clamorous laugh, and is protected for its skill in killing reptiles and mice. The same region possesses various other laughing kingfishers

Borough and Launceston town of Cornwall Τt stands where the Kensey falls into the Tamar, 213 m from London, on the Gt. Western and Southern Rlys The chief objects of interest are the castle keep, the property of the Duchy of Cornwall, and the ruins of an old prison and Norman gateway The borough includes Newton on the other side of the Kensey, once a separate town The town is chiefly a centre for the sale of agricultural produce Pop (1931)

aunceston City and river port of where the North and South Esk unite to form the Tamar, 40 m from the sea and is the chief town in the northern part of the island It is connected by railway with Hobart There is a shipping trade with Australia, other industries are smelting and the marketing of fruit Pop (1932) 31 210

Laundry Establishment where washing and clothes is carried on Laundry work is now done mostly by mechanical means Rotary washing machines are used These consist of a perforated cylindrical cage for the reception of the solled linen, enclosed in an outer casing containing the soapy water Hydro-extractors are used for the removal of water and the final drying is effected by dry air treatment, while ironing is carried out by gas or steam heated rollers

In Great Britain laundries are inspected by public health officials, and there are legal pro visions about the hours of employment and

the workers' conditions

Aurel Name of diverse evergreen shrubs and trees with leathery, lance haped leaves. The laurel of antiquity was shaped leaves. probably the Mediterranean bay tree (Laurus The cherry laurel (prunus Lauronobilia)

cerasus) and the Portuguese laurel contain between Germany's creditors and USA hydrocyanic acid. These three grow freely president of the conference was Mr F in Great Britain's only native laurel MacDonald (q v) is the spurge (Daphne laurcola) The Indian Forest Dept. call the decorative timber of the saj tree (lerminalia) laurel wood North America and Japan furnish other laurels

Laurentian Rocks Pre Cambrian rocks found in the Laurentian Highlands north of the St Lawrence estuary They now rank as the undermost archaean rocks, 30,000 ft thick, upon which an upper Laurentian or Labradorian series rests unconformably A primitive land area, called Laurentia, is thought to have existed from Canada to the Scottish Hebrides, its shores receiving the earliest palaeozolo sediments

Laurie Annie Scottish heroine She was a daughter of Sir Robert Laurie, a landowner of Maxwellton, Dumfriesshire, and was born in 1682 On her marriage in 1717 an unsuccessful suitor, William Douglas, wrote the song which has made her name immortal The music was composed by Lady John Scott who added a ware to the course.

Scott, who added a verse to the song

Laurier Sir Wilfrid Canadian statesman Born Nov 20, 1841, he was of French-Canadian, Roman Catholic parentage He was educated at McGill University, Montreal, and became a lawyer and a journalist In 1871 he was elected to the legislature of Quebec, and in 1874 to the House of Commons at Ottawa, when he represented Frent Cuebea at Ottawa, where he represented East Quebco

at Ottawa, where he represented East Quebec In 1877 he was for a short time in the Cabinet An eloquent speaker, Laurier soon came to the front, and in 1887 was made the leader of his party, the Liberals In 1896 a General Election gave the Liberals a majority and he became Prime Minister, a position he held for 15 important years He gave preferential tariffs to Great Britain, restricted immigration and carried through other reforms His proposals for reciprocity with the United States led to his defeat in 1911 and he resigned As leader of the opposition, he favoured Canada's leader of the opposition, he favoured Canada's entry into the Great War in 1914, but objected to conscription He died Feb 17, 1919

Laurium Mountain in Greece It is about 30 m south-east of Athens and was celebrated in ancient times for its silver mines They belonged to Athens and from them the city obtained much wealth Within recent years mining has been revived in the district and considerable quantities of silver and lead, as well as cadmium, manganese and iron, are produced

City of Switzerland Lausanne

Lausanne stands on the north side of the Lake of Geneva, 38 m from Geneva, and is an educational and literary centre Hero Gibbon wrote much of the Dccline and Fall. Its port is Ouchy on the lake and it is the capital of the canton of Vaud It has a broadcasting station (680 M, 0 6 kW) Pop 76,200 The Treaty of Lausanne was signed, July 24, 1923, between the Allies and Turkey It fixed the boundaries of Turkey as they are to-day In June, 1932, the European Powers held a conference at Lausanne to discuss the question of war debts, and especially Germany's failure of war debts, and especially Germany's failure to pay reparations An agreement was reached putting an end to reparations payments, Germany in return undertaking to contribute Europe The payment, however, was not to be made at once and was dependent on an agreement about war debts being reached

The Ramsay

Lauterbrunnen village and pleasure resort of Switzer-land It is in the Bernese Oberland, 8 m. from Interlaken, and is a good centre for the most beautiful of the Swiss scenery Near is the Jungtrau

Molton rock poured out from a Lava may flow to a considerable distance when very fluid or form accumulations around the vent when viscous As the lava flows, owing to the escape of steam, the surface becomes slaggy, while the interior forms a compact mass

Laval Pierre French statesman Born in 1883, he became a socialist In 1908 he was mayor of Aubervilliers and a little later he was elected to the Chamber of Deputies He was made a senator in 1924, and in 1925 was Minister of Public Works In 1926 he was Vice-President of the Council under M Briand, and in 1930 Minister of Labour under M. Tardieu. In Jan., 1931, he became Premier and Minister of the Interior, and it was his lot to deal with the difficulties about the payment of reparations that arose in 1932 In Jan, 1932, he reconstructed his ministry, but a little later he was forced to resign

Laval-Montmorency François xavierde
French prelate Born at Laval, of a famous family, April 30, 1623, he entered the priesthood In 1674 he became Bishop of Quebec, and, after the governor, the most influential man in the colony He resigned his bishopric in 1683, but remained in Canada until his death, May 6, 1708
Laval is known as the founder of the Laval priversities of Quebec and Montreal.

universities of Quebec and Montreal.

Lavater Johann Kaspar Swiss scientist. Born at Zürich, Nov 15, 1741, he was there educated and became a minister His whole life was passed in his native place, and much of his time was devoted to writing and study He wrote poems and books on and study He wrote poems and books mysticism, but his claim to fame is his work on physiognomy, which has been translated into English He died Jan 2, 1801

Lavender Genus of perennial herbs or shrubs of the labiate order (Lavandula) The cultivated L vera bears erect branches with long stalked spikes of fragrant mauve flowers, from which an aromatic oil is distilled, 250 lb of flowers yield 1 lb of oil In England the flowers are grown for commercial purposes at Micham and Hitchin Sea layenders are species of statice of the plumbago order

\_avenham Town of Suffolk It is 10 m Edmunds, on the LNE Rly There is a guildhall dating from the 16th century, and one of the finest churches in the county At one time Lavenham was a flourishing market town and a centre of the cloth manufacture Pop 2000

Village of Hampshire It \_averstoke from Whitchurch, and contains the paper mills at which, since 1724, the paper for English bank notes has been made. They are owned by the formula of Portal when the company of Portal by the family of Portal whose residence is Laverstoke House.

1912 he was created ARA, and in 1921 R.A. His work may be seen in the National Portrait Gallery, London, in the collections in Glasgow, Liverpool, at the European universities As a profession Manchester and at Ottawa and elsewhere abroad

I ANOISIAET Antoine Laurent. French

French Antoine Laurent. Lavoisier scientist. Born in Paris, Aug 26, 1743, and there educated, he held official positions, including that of director of the state powder works, and gave much time to chemical research He gave the name oxygen to the "dephlogisticated air" discovered by Priestley, and by his researches established the method of weighing chemical substances He showed that matter is indestructible, and until accept through the property in the principle of the programme of the property of the programme of the prog recent times his theory was implicitly accepted He was made farmer general of the taxes, a position which led to his execution on May 8, 1794, a victim of the Revolution

Word meaning rule or order It is used in two main senses The first is for an inevitable order of the universe, as the laws of motion or the laws of cause and effect

In the second sense it refers to a rule laid down for human action, disobedience of which is likely to be followed by some penalty or inconvenience The general name for such rules is law, the study of law is jurisprudence

Men cannot live together in society without law, and laws appeared at a very early stage in human history — In their growth religion played a great part, and early laws were regarded as the commands of a god This idea in modern times is partly responsible for what is known as the moral law The early codes contain strong

evidences of priestly influence Gradually among primitive peoples custom became an important factor in the develop ment of law, and many early codes of law, eg, the laws of the English before Norman times, are merely collections of accepted customs The lawgivers of ancient times, such as Hammurahi and Moses, were not legislators in the modern sense. They did not make laws, they restated those already existent. The Greeks had a developed system of law, but modern law owes its greatest debt to the Romans
Law has been classified in various ways. The

Romans divided it into the civil, or national, law, and the law of nations, which is the basis of international law. This division premises that certain laws, or rules, are by their very nature binding upon all mankind, but others

only upon a particular people or state
Another division of law is into the civil law,
and the canon, or ecclesiastical, law, and
another is into the common, or unwritten law and the statute law, a classification familiar in England, while a third class is case law, or law as interpreted by the judges. In England, as in other countries, the criminal law has been separated from the civil law and this makes a further branch. Another distinction of importance to students is that between customary law and the Austinian definition of a law as the positive command of a sovereign, who has power to enforce it.

power to enforce it.

To day every country has its own legal than independent to the control of the examinations are similar, but as Scots and any every country has its own legal than independent to the control of the examination are similar, but as Scots are the law, and three essentials, barrister cannot practise in Scotland, and once history. Each system has three essentials, barrister cannot practise in Scotland, and once history are body of judges to declare them, and laws, a body of judges to declare them, and another body to enforce them. The various legislatures are the law makers are the law makers. The judges declare the laws and the police, or a similar, but as Scots was indicated by the surface to the solution. The particular trees are the law makers are the law makers. The judges declare the laws and the police, or a similar.

To the examinations are similar, but as Scots was indicated to them, and once the law, indicated by the solution. The price of the outset to pass an entrance, examination set by the Law Society, the body responsible for the organisation of the professor organisation, with an army in reserve, enforce in the police of the controlled by the surface of the controlled by the surface controlled by the surface trees.

classes, but entrance to each is everywhere a privilege guarded by educational and other tests See Barrister Solicitor, etc LAW AS A CAREER The legal profession is divided into two classes, Barristers (called in Scotland "Advocates") and Solicitors, the two are closely interdependent, but no one may practise both A barrister can only be employed through a solicitor, since, by an ancient custom no layman may have direct ancient custom, no layman may have direct communication with the bar In England both

branches are open to women
As Law is one of the "learned" professions, As Law is one of the "learned" professions, so it is one of the most exclusive, by reason of the high standard of ability necessary, no less than on account of the long and expensive courses of training. For the first four or five years of his career the young barrister will earn next to nothing, and it is well to take this fact into consideration at the outset. But for a person of sufficient ability it offers a promising career with wide opportunities, while the scope for women is increasing. for women is increasing

A university degree, in Law or in Arts, is the best foundation for a legal training Also it exempts from the preliminary examinations, and reduces the period of special training to

three years

Barristers To become a barrister, a student enrols himself as a member of one of the Inns of Court During, or at the end of the period of special training (not less than three years), he must pass the bar examinations, for which he can prepare in several ways. He may attend can prepare in several ways. He may attend the lectures arranged by the Council of Legal Examination (15 Old Square, Lincoln's Inn, London, W O 2), or attend university classes, or study privately, or "read in chambers" This last is usually done whether lectures and classes are attended or not. It consists of becoming a pupil to a barrister in order to gain

practical experience A fee of 100 guineas a year is payable

The Inns of Court are four in number—
Gray's and Lincoln's, the Inner and Middle Temples Before being "called to the Bar" or certified as a qualified barrister, a student must pass the bar examinations, and must also them trayer to the payers. He defile keep twelve terms, i.e., three years He fulfils the requirements of keeping terms by dining in hall a certain number of times each term. The number varies according to the status of

the student.

Total fees (excluding a deposit of £150) are between £158 and £170, varving according to the Inn. Particulars of fees and of entrance examinations should be obtained from the Treasurer's Office of the Inn which the student intends to enter

The Faculty of Advocates, Edinburgh, is the controlling body for admission to the Scottish Bar The procedure and standards of the examinations are similar, but as Scots

enter into what is known as "service under articles" (as an articled pupil to a firm of sollcitors) for a period of five years (three for the graduate) Premiums are frequently very high—varying from 100 to 500 guineas. There is also a Government stamp duty of \$80 to clergyman but, as he refused to acknowledge.

pay on articles and £25 on admission
Fees for law classes, which are attended
during apprenticeship, and for examinations must also be taken into account The final examination is usually taken at the end of the period of articled service, and success in it entitles the student to seek admission to the

Roll and to practise as a solicitor

Roll and to practise as a solicitor
Professional clerkships in a solicitor's office
are paid anything from £200 to £500 a year,
and more responsible posts are paid up to
about £800 a year. In dependent practice
or in partnership a successful man may expect
to earn anything from £600 to £2000 a year
according to the size of his business and its
professional standing. The salaries of municipal
and government solicitors range from £300
a year to £1500 Information concerning fees,
entrance examinations, etc., may be had from
the Law Society, Bell Yard, London, W C 2

Law Andrew Bonar British politician The son of a Presbyterian minister, he was born in New Brunswick Sept 16, 1858, and educated in Glasgow He entered business life in Glasgow with some relatives, and after a successful career in the iron trade and after a successful career in the iron trade he retired In 1900 he was elected Unionist MP for a division of Glasgow, in 1902 he took office as Parliamentary Secretary to the Board of Trade, and in these years he made his reputation by his speeches in favour of tariff reform In 1905 he left office and in 1906 was defeated in Glasgow, but almost at once was elected for Dulwich In 1911, although he had never sat in a cabinet, Bonar Law was elected leader of the Unionist Party in the House of Commons As such he took a leading part in the great events of July and August, 1914, and later, when the coalition ministry was formed in 1915, he became Colonial Secretary In the

1915, he became Colonial Secretary In the crisis of Dec, 1916, he acted with Lloyd George and became Chancellor of the Exchequer and leader of the House of Commons In 1918
he left the exchequer, but he rotained his other
post until March, 1921, when he resigned for
reasons of health. He had represented Great
Britain in Paris at the Peace Conference

In October, 1922, after the end of the coalition, and a general election which resulted in a Unionist victory, he became Prime Minister, but in the following May he resigned He died

Oct 30, 1923

Ш n

Ĵθ nt

file ing

arð

to nce the

ient i, ji

ardi coti ;lish rice the

1 1 anit, hods 010 Micd

Law John. Scottish financier Born April 21, 1671, he was the son of a gold-smith in Edinburgh In 1694 he was sentenced to death for killing a man in a duel, but escaped from prison and reached Amsterdam, and for 20 years or more travelled about Europe His acute intellect was soon turned to the possibilities of credit. He could not persuade the Parliament of Scotland to take up his idea of a land bank, but he was more successful in France With his brother, William, he started in 1716 a bank in Paris, and in 1718 the regent allowed him to make this a national bank. For a time it flourished, and in 1719 Law founded a company to trade in the region of the Mississippi, but soon the crash came. In 1720, having just been made. Controller General of Finance, Law found that he could not meet his obligations. His property was confiscated and he acute intellect was soon turned to the possibili-

George I , he did not obtain a living For some years he was tutor to the Gibbon family, and years he was tutor to the Gibbon family, and his last years were passed quietly in Northamptonshire He died April 9, 1761 Law wrote a good deal, but his fame rests on one book alone, A Scrious Call to a Devout and Holy Life, 1728, long one of the most popular of its kind He studied mysticism, became the leading interpreter in England of the ideas of Jacob Beechman and wrote true books on the subject

Bochme, and wrote two books on the subject He also wrote against the stage

Law Agent Scottish equivalent of the English solicitor They have a professional society and their duties and privileges were laid down by the law in 1863 To become a law agent the candidate must serve articles and pass examinations

must serve articles and pass examinations

Law Court Building where justice is
administered The phrase
law courts is used in England for the building iaw courts is used in England for the building in the Strand, London, in full, the Royal Courts of Justice, where the judges of the high court sit Other capital cities have law courts In Edinburgh the Parliament House is used, in Belfast a new building has been erected. Ottawa and Pretoria have law courts for Canada and South Africa respectively For the German republic the law courts are in Leipzig, and for the United States at Washington Washington

Washington
Lawes Sir John Bennet English scientist. Born at Rothamsted, Dcc 28, 1814, he went to Eton and Brasenose College, Oxford In 1822 he inherited his father's estate at Rothamsted and there, on leaving Oxford, he began experimenting with the growing of crops The results were of high value to agriculture, and in 1899 the work was handed over to a trust he created, The Lawes Agricultural Trust, which still conducts it He became FRS in 1854, and in 1882 was created a baronet Lawes died Aug 31, 1900
Law Lord Name given in England to the Lords of Appeal They are six in number and sit in the House of Lords

are six in number and sit in the House of Lords are six in number and sit in the House of Lords as life peers. With other members of the House of Lords who have held high judicial office they hear the appeals from the lower courts of law. In Scotland the judges of the Court of Session are made lords for life, but they are not members of the House of Lords. The salary of a law lord was £6000 a year, but was reduced by 20 per cent. in 1931

Lawn or cotton. It is used for dresses.

Lawn or cotton It is used for dresses, trimmings, handkerchiefs and the like For-

trimmings, handkerchiefs and the like Formerly called cloth of Rheims, and in Tudor times Laune linen, it was named from the town of Laon Some fine muslins are called lawns Bishop's lawn is used for the sleeves of the robes of Anglican bishops

Lawn Tennis Popular outdoor game played by both sexes The implements are racquets and balls, and it is played on a court 78 ft. long and 36 ft. wide The court is divided into two equal parts by a net and further into sections by white lines The court is divided into two equal parts by a net and further into sections by white lines, and the aim of the players is to hit the ball so that it falls within the court, but at such a pace, or in such a position, that it cannot be returned A failure to return the ball counts a point to the other side The score goes 15, 30, 40, 50, so that four points can make a game ahead of the other. The side that wins six games scores a set, but here again if the sides reach 5 games each, the set cannot end until one side is two games in front. Sets of

12 10, or thereabouts, are quite usual
The game is usually played by two persons
against two, but it can be played by one against
one In this case the court is less broad, a portion at each side, 4 ft 6 in wide, being now outside it Grass courts are the more common, but of late years many hard courts of gravel, coment or asphalt have been laid down these the game can be played throughout most of the winter There are regulations about the weight and size of the balls, but none about the

racquets

There are tennis clubs all over Great Britain and Ireland, also in the United States, Canada, France, Japan and other countries The great event of the lawn tennis year is the international event of the lawn tennis year is the international meeting at Wimbledon, where players from all over the world meet to decide the various championships Since the Great War American players have often been successful in the men's games, although France has won a number of victories Among the women the outstanding player has been Suzanne Lenglen In the early days of the championship matches, which began in 1877, players from Ireland were the most notable exponents of the game

The game in Great Britain is governed by the Lawn Tennis Association which was formed

Lawn Tennis Association which was formed in 1888 Its address is 28 Essex Street London, W C 2 Professionals are recognised for coaching and other purposes, but are strictly debarred from matches and competitions. The Davis Cup is contended for by male

teams from the various countries The Wight man Cup is fought out between woman players from Great Britain and the United States

The game developed from real tennis and

The game developed from real terms and was at first called sphairistike (qv). It was played in 1874 and soon took its modern form. Names of great players include the Irish brothers Renshaw and Doherty, Borotra and Cochet, the Americans, Tilden and kilsworth Vincs, who won the singles championship in 1932, and Jack Crawford, winner in 1933 Famous women players include Suzanne Famous women players include Lengten and Mrs Helen Wills Moody

Lawrence Christian saint and martyr Born according to tradition, at Huesca, Spain he became a deacon in Rome During Valerian s persecution in 258 he was ordered to produce the church's treasures He showed some beggars, and was sentenced to be burned alive in an iron chair, usually represented as a gridiron The church which represented as a gridiron The church which Constantine erected over his tomb is one of Rome s seven pilgrimage couraches He is commemorated on Aug 10

Lawrence Arabella Susan English Born in 1871, she was educated at Newnham College, Cam English Born in 1871, bridge, and began to work among the poor in London In 1912 she became a member of the London In 1912 she became a memoer of the London County Council and she kept her seat until 1928 In 1923 she was chosen Labour MP for East Ham North and represented that constituency again, 1924 31, when she was beaten In 1929 31 she was Parliamentary Secretary to the Ministry of Labour, and held several important posts in the Labour move ment, including organiser of the National Federation of Women Workers and deputy chairman of the Labour Party

If, however, both sides reach 40, or douce, the Lawrence David writer Herbert. English game is continued until one side is two points Lawrence writer Born at Eastwood Sopt. 11, 1885, the son of a coal miner, he was educated in Nottingham. In 1911 he published his first novel. The White Peacock, and in 1913 he made his name with Sons and Lovers, a realistic story of life among the coal miners Henceforward his life passed partly in Mexico and partly in Italy, was occupied with literature and art His other novels include The Trespasser, The Lost Girl The Plumed Serpent, Kangaroo, The Ladybird and The Prussian Officer, a volume of stolles The Rainbow was suppressed and Lady Chatteriey's Lover was printed abroad He wrote a good deal of verse, including a volume called Pansies, some essays and some plays He died March 3 1930

By some Lawrence is regarded as a great literary artist, but his realism revolted many In his genius there was a strong morbid strain

Lawrence Lord English administrator Laird Mair Lawrence was born at Richmond, Yorkshire, March 4, 1811, and educated at Foyle College, Londonderry, and at Haileybury He joined the service of the East India Company in 1829, took part in the war against the Sikhs in 1846, and when the Punjab had been conquered was given charge of it. His energy and resource did much to keep the district loyal during the Mutiny, and he was able to lead an army of Sikhs from there to the relief of Delhi He retired in there to the relief of Delhi He retired in 1858, but returned to India in 1864 and served as Governor General until 1869 He was then made a baron He died June 27, 1879, and was buried in Westminster Abboy

awrence Sir Henry Me English soldier Montgomery Born in Ceylon June 28, 1806, an elder brother of Lord Lawrence, he entered the Indian army in 1823 He served in the various wars of the next 26 years, including those against the Afghans and the Sikhs In 1848 he was knighted and for a time he served with his brother in the When the Mutiny began he was at Lucknow and he led the defence of the Residency there for four months until he was wounded, dying July 4, 1857

Lawrence Sir Herbert Alexander Born Aug 8 1861, he was a son of the great Lord Lawrence Born Aug He served in the S African War, but later lett the army for business. In 1914 he rejoined and saw sorvice as a staff officer in Lgypt and Gallipoli Knighted in 1917, in 1918 he was Chief of the Staff to Sir Douglas Haig. In 1919 be left the army and became chairman of the banking firm of Glyn, Mills, Curie & Co, and a director of other large concerns. Since 1926 he has been Chairman of Vickers, Ltd

Lawrence Sir Thomas English artist He was born in Bristol, May 4, 1709, the son of an innleeper He painted portraits when only a child and later studied art in London He soon made a reputation and was elected A R.A in 1791, and R.A in 1704 In 1702 he was made painter to the king and in 1815 he was knighted. In 1820 he was chosen President of the Royal Academy and he died in London, Jan 7, 1830 Lawrence was the most fashionable portrait

painter of his day and his subjects included many notable European figures Many Law-rence portraits are at Windsor and in the National Portrait Gallery, London

Lawrence Thomas Edward lawrence soldier and explorer English Aug 15, 1888, he was educated at Oxford High School and Jesus College, Oxford A scholar-ship enabled him to go out to Syria in 1910, and during the next four years he learned a great deal about the Arabs and did excavation work acea about the Arabs and did excavation work at Carchemish In 1914 he was employed on geographical work at the War Office, and in 1915 he was sent out to Egypt, Turkey having just entered the war against Great Britain He then went on to Arabia, where his know ledge of Arab life was invaluable - In that country, negotiating with the Arab-tribes, organising them for war and leading them in battle, he was the mainspring of the campaign which destroyed the Turkish influence in that region Officially he was a staff officer with the rank of colonel of the British army

In 1919 Lawrence attended the Peace Conference in Paris, but he soon left it in disgust 'He was made a fellow of All Souls College, and in 1922-23 he acted as adviser to the Colonial Office In 1922 he enlisted as a mechanic in the air force as T E Shaw, a name which he took by deed poll in 1927 He wrote an account of his adventures as The Seven Pillars of Wisdom, 1926. An abridged edition, Recoil in the Descri, appeared in 1927 He was

killed in a road accident in May, 1935

Lawson Sir Wilfrid English politician Born Sept 4, 1829, the son of the 1st baronet, he became MP for Carlisle in 1850, for Cockermouth (1886 1900), for the Camborne division (1903-05) and again for Cockermouth in 1906 He died July 1, 1906 In his day Lawson was very well known for his advocacy of temperance and kindred reforms

Lawyer Member of any branch of the legal profession In England and elsewhere it includes barristers and solicitors; in Scotland advocates, writers to the signet and law agents! Each of these has its own professional organisation. See BARRISTER, SOLICITOR, LAW

Laxative Substance gently stimulating the action of the bowels. It may be a food, &g, cabbage, brown bread, honev, prunes, or a mild medicine, eg, sulphur, magnesia

Fruit first raised in 1930. It is a cross Laxtonberry between the raspberry and the loganberry and is grown in the same way as the latter To ensure fertilisation it should be planted near other fruit trees

Layamon English poet He was a priest who lived in Worcestershire in the 12th century He was the author or translator of Brut, a poem of great value to students of the English language He took an existing story written by Wace and turned it into rhyme Brut, a descendant of Aeneas, is represented as the ancestor of the Britons

Layard Sir Austen Henry English scholar The son of a clergyman, he was born in Baus, March 5, 1817 He was educated mainly in Italy, but later studied law in London Between 1845 and 1847 he did most valuable work on the ruins of Ninoveh, publishing its results in his Ninoveh and its Remains and other works, and sending some of his specimens to the British Museum Later he explored the ruins of Babylon and Sir Austen Henry some of his specimens to the Brilish Aluseum
Later he explored the ruins of Babylon and
wrote Ninctch and Babylon From 1852-57
and again 1860-69 Layard sat in Parliament
From 1861-66 he was Under-Secretary for
Foreign Affairs, and from 1868-60 Chief
Commissioner of Works In 1869 he was sent

as ambassador to Madrid, and in 1877 to Constantinople He died July 5, 1894

Layering Method of propagation of plants in which an artificial sucker is formed by bending over and pegging down a branch into the soil A strong shoot is chosen, the lower leaves removed, and the stem partially out across a joint, it is then pressed into suitable soil at an angle and held in position by a peg 'At the partially severed joint roots are soon formed, producing a new plant which can be detached from the parent

Layman One who is not a professional It is used chiefly for those who are not priests, clergymen, or ministers Convocation in the Church of England has houses of laymen set up in 1886

Lay Reader In the Anglican Church bishop to perform various duties. They take extra services in consecrated buildings and assist the clergy in other ways, but do not administer the communion They were established in 1866

Lazarette Public hospital for the quarantine of persons with contagious diseases. The word is connected to have suffered with Lazarus, who is supposed to have suffered

from leprosy

azarists Order of secular priests They work in rural districts, instruction of the ingurant and training of youth for the priest-hood The order was founded by S Vincent de Paul, confirmed by Urban VIII in 1632, and established in the College de S Lazare, Paris They are also called Vincentians

Lazarus Character in the New Testament He was a wealthy and influential native of Bethany, whom Jesus raised from the dead (John xi-xii), and with whom and his sisters Martha and Mary, he was a frequent guest

Another Lazarus is the beggar mentioned in the parable of the rich man (Luke xvi) The word is the Greek form of the Hebrew

Cleazar

Lazulite Bive or greenish-blue vitreous mineral occurring in Switzerland, Sweden and Brazil It consists of phosphate of aluminium and iron with some magnesium hydroxide

Leacock Stephen Butler Canadian writer Born in Hampshire, Dec 30, 1869, he went to Canada when a child Dec 30, 1869, he went to Canada when a child and was educated at Upper Canada College and the University of Toronto For some years he was a teacher at his old school, but in 1903 he became Lecturer in Political Science at McGill University, Montreal, and in 1908 he was appointed Professor of Political Economy there Leacock wrote several books on political schools of Political Feonomy. economy, including Practical Political Economy, economy, including Prartical Political Economy, 1910, and also Diographies and essays on literary subjects His reputation, as far as the general public is concerned, rests on his volumes of short, humorous stories, such as Literary Lapses, Nonsense Novels, My Discovery of England, Moonbeams from the Larger Lunacy, Short Circuits and Winnowed Wisdom. In 1932 The Dry Pickingle, appeared

Lead Important metallic element It has the symbol Pb, atomic weight 207 2 and melting point 327°C, and is one of the most widely distributed and useful of metals its principal ore is the sulphide, galena and

malleable, duetile and heavy, but with little tenacity It readily tarnishes in moist air but sation It came into existence for the lever of cycle formed are into existence. the layer of oxide formed protects the surface from further change The metal is used in sheet and other forms for roofing, pipes, elsterns, etc. and its compounds have many industrial applications
The world's annual production of lead is

about 1,400,000 tons, or rather more than the consumption As it is chiefly mined with silver, it is not surprising that the United States and Mexico provide half the supply Australia, Germany and Spain produce each over 100,000 tons a year Burma is the next producer and the large supplies in Rhodesia are not yet fully worked Great Britain produces about 10,500 tons a year

Lead Plummet or sinker used for sounding the depth of the sea Shallow waters are easily sounded by letting down a piece of lead attached to a marked line and greased with tallow, which brings up samples of the

sea bottom

Leadenhall Market in London, between Cornbill and Aldgato It dates from the 13th contury, and is the chief London market for poultry The buildings date from 1881 and are entered from Leadenhall and Graccchurch Streets The site of East India House in Leadenhall Street is now occupied by

the building of Lloyd's
Leader Benjamin Williams English artist
Leader Born at Worcester, March 12,
1831, the son of E Leader Williams, he studied art in his native town, and in London, and made a reputation by his English land scapes In 1883 he was elected A.R.A and in 1888 R.A He died March 22, 1923

Leadhills Village of Lanarkshire, 18 m LMS Rly Here are some old lead and silver

LAIS Ry Here are some old lead and silver mines and the village, 1300 ft up, is one of the highest in Scotland Pop 850

Leaf Outgrowth from the stem of a plant forming a lateral expansion of varying form and function In a foliage leaf the cutole and opidermis have numerous openings or stomata leading to the air spaces in the callular tissue or mesaphyll and time in the cellular tissue or mesophyll and func tioning in transpiration. The mesophyll is traversed by veins or vascular bundles, con tinuous with those of the stem, and it contains the chlorophyll grains which give the green colour to the leaf and function in carbon assimilation under the action of sunlight. A typical foliage leaf consists of a leaf base, stalk or petiole, and blade or lamina

Association or alliance of League permanent character, especially between states es They existed among the The Hanseatic League was a Greek states union of cities chiefly German, for economic ends, which was at its height in the 14th century and a modern example is the League of Nations

To day the word is used for political and social organisations such as the Anti Gambling It is also much used in sport for a group of clubs which play matches with each

other for a championship

Name given to a measure of length It varies in different countries but in Britain it is equivalent to three English miles or in nautical measure to three knots or the twentieth part of a degree The Gallic or Roman league was equal to 1500 paces or roughly one and a third English miles

sation It came into existence Jan 10, 1920, as part of the treaty that followed the Great Its headquarters are at Geneva has over 50 members, including all the leading countries of the world except the United States, Germany, Mexico and Brazil Each of the dominions of the British Empire is a separate member with its own vote English and French are the official languages The cost of the league is over £1,000,000 a year, paid by subscriptions from its members.

The aims of the League are laid down in the The High Contracting Parties, Covenant In order to promote international co-operation and to achieve international peace and security by the acceptance of obligations not to resort to war, by the prescription of open, just and honourable relations between open, just and nonomatic relations between nations, by the firm establishment of the understanding of international law as the actual rule of conduct among Governments and by the maintenance of justice and a sorupulous respect for all treaty obligations in the dealings of organised peoples with one another, agree to this Covenant of the League of Nations

The Covenant of the League contains fundamental clauses on the prevention and settlement of disputes These clauses bind nations who are members of the League not to employ force for the settlement of a dispute until they have first submitted it to the League of Nations (or to arbitrators or to judges), waited at least six months for the award or decision, and then allowed at least three more months to clapse

The organisation of the League is in five The assembly is a meeting held each sections September when three representatives from each member state attend. The council which meets at least four times a year con The council, sists of representatives from five states that are permanent members and from nine others who are temporary members The permanent who are temporary members and permanent members are Great Britain, France, Italy, Russia and Japan. The temporary members are elected each year The Secretary General, is the civil service of the League The two other departments are the permanent Court of International Justice at the Hague and the International Labour Office at Geneva, which aims at improving the condition of labour all over the world

Besides dealing with matters concerning boundaries, health, finances, transit, etc., the League has controlled mandated territories, governed the Saar till it roturned to Germany by plebisoite vote in March, 1935 and helped to govern Danzig It strove to eettle the Sino Japaneso dispute 1932 3, and the Gran Chaco war between Bollvia and Paraguay settled June, 1935 after the withdrawal of Paraguay from the League in February

In Jan, 1935, the League mediated between Yugoslavia and Hungary when hostilities were threatened after the Marseilles assassinations, and from Jan received continuous notes from the parties to the Italo Abyssinian dispute After rejection of many peace proposals, in cluding those of the 5 power Committee, Italy was declared aggressor in Oct , 1935, and 51 members agreed to the operation of Sanctions, Austria and Hungary alone declining

Important conferences on disarmament (1932 5) have also been called under the

auspices of the League

quarters at Putney, London, was founded in 1818

Leap Year Year of 366 days occurring overy 4 years It was introduced by Julius Caesar in 46 B c in the Julian calendar, in order to adjust the calendar year to the solar vear, which is not quite 3651 days The slight over-correction is put right by omitting leap year at the proper long intervals

Lear Edward English writer of Danish Born in London, May 12, 1812 he became a draughtsman He exhibited

1812 he became a draughtsman He exhibited regularly at the Royal Academy and spent much time in travel, writing and illustrating accounts of his journeys in 1846 he published The Book of Nonsense, and on this and his other volumes of verses, More Nonsense Rhymes and Laughable Lyrics, his fame rests He died Jan 30, 1888

Lease Word used in English law in A lease is granted by an owner called the lessor to a tenant called the lessee Farms and large houses are usually let on lease, the period being usually 7 or 14 years, though it may be less or more A lease for three years or more must be in writing In the case of repairing leases the tenant must keep the premises in good repair

A mining lease is a permission to work

A mining lease is a permission to work inerals It is given by the owner of the land minerals

who usually receives payment in the form of a royalty on each ton of mineral taken out of the ground Coal, tin and other minerals and metals are worked in Great Britain under mining leases

Leasehold Name used in England for other kind of land being freehold In a sense, however, all land is freehold, as someone owns the freehold of a piece of leasehold land Leasehold land is let out for a term of years, usually 99, for building purposes, the payment for it being called the ground rent. At the and of the region the lead and the leader the leader. the end of the period the land and the build ings thereon become the property of the person who owns the land, or his successors Several attempts have been made to end this system, but without success. It is however necessible but without success It is, however, possible to convert a leasehold into a freehold by buy ing the land outright Leaseholds are regarded ing the land outright Leaseholds are regarded in English law as personal not as real property.

Leasing In Scots law the offence of making seditious statements about the king and the government of the country. It is not now treated as a crime, unless accompanied by seditious action.

The Skin or bide of an animal

Leather Skin or bide of an animal Leather Skin or bide of an animal after being subjected to the process known as tanning, which preserves it from decomposition and gives it increased strength, toughness and insolubility for use in making footnear, cloves, saddlery, bags.

Learnington Borough and inland watering place of Warwickshire It stands on the Leam, 2 m from Warwick and 98 from London There are pump rooms and gardens and much accommodation for visitors Its early name was Leamington Priors, altered afterwards to Royal Leamington Spa Pop (1931) 29,662

Leander In Greek story the lover of Hero, the priestess of Sestos In order to visit her he swam the Hellespont from Abydos One night the light from the lighthouse at Sestos failed him and he was drowned The Leander Rowing Club with head advanced by an oil treatment producing a drowned The Leander Rowing Club with head aguarters at Putney, London, was founded in

In England the main centres of the leather In England the main centres of the Country are Bermondsey, London and Leeds In Bermondsey a technical college is maintained by the Leathersellers' Company, founded in 1444, one of the London livery companies. It has large estates, is interested in Colfe's Grammar School at Lewisham, and has a hall at 13 St Helen's Place, Bishopsgate, London E C

Leatherhead Urban district of Surrey It stands on the Mole, 18 m from London on the 8 Rly It is regarded as the original of picturesque Highbury in Jane Austen's Emma Tanning, brewing and the making of bricks and pottery are the chief industries Pop (1971) 6916

Leatherwood Sole American genus of shrubs of the spurge laurel order (Dirca) The Atlantic and Callfornian species vield a tough inner bark used by N American Indians for fibrous thongs

by N American Indians for fibrous thongs Their acrid properties are deleterious, both externally and internally

Loatherwood is also the name of the close-

grained timber of a tree that grows in New South Wales It belongs to the saxifrage order and has a distinctive odour

Leaven
Term applied to the substance used in bread making to cause the dough to rise, thus giving a spongy texture This is due to fermentation and the production of minute bubbles of carbonic acid gas in the dough The usual leaven is fermented dough prepared from flour mixed with water, salt and yeast Aerated bread is made by forcing carbonic acid gas under pressure into the dough, thus giving porosity to the bread

Lebanon Range of mountains in Syria It is about 100 m long and runs almost parallel to the Mediterranean The average height of the mountains is about 10 markets averaged 10 000 Solo-7000 ft, though some exceed 10,000 Solo-mon's Temple was largely built of cedar wood from Lebanon

Lebanon Republic of Svria It is governed by France under mandate from the League of Nations Formerly part of Syria, it was made a state in 1920 Its boundaries are the Mediterranean on the W, the Anti-Lebanon range on the E and Palestine on the S Its area is about 4300 sq m Beirut is the capital Pop 882.600 E and Pares 4300 sq m 862,600

Leblanc Nicolas French scientist.
Born in 1742, his fame rests upon the process for making soda from salt which he discovered by using sulphuric acid heated by a mixture of chalk and charcoel He started a factory, but this was taken from him during the French Revolution Late in the 19th century his process was replaced. in making footnear, gloves, saddlery, bags, otc. The skins of oxen, horses, sheep and the 19th century, his process was replaced by the Solvay method Leblanc committed Leblanc committed

## Le Bourget see Bourger, LE

Lebrun Albert French politician 1871, he was educated at Nancy where he studied engineering In 1900 he was elected to the Chamber of Deputies, and in 1911 he was made Minister of Commerce, a post he held until 1913 when he was Minister of War for a unii 1913 when he was Minister of War for a few months In 1917 18 ho was Minister of Blockade under Clemenceau, and in 1910 Minister of the Liberated Regions In 1920 he was elected to the Senate, and in 1926 became its vice president He succeeded M Doumer as President of the Senate in May, 1931 A year later, after Doumer's murder, he was elected President of the Republic

Le Brun Charles French artist. Born in Paris, Feb 24, 1619, he showed early talent After spending some years in Rome he returned to France and was chosen by Colbert as the first director of the Gobelin tapestry factory He founded the Royal Academy of Fine Arts in Paris and the French School at Rome His work is seen to some of the decorations at Verseilles He French School at Rome His work is seen in some of the decorations at Versailles He

died Feb 12, 1690, in Paris

Le Brun Marie Louise Elizabeth Vigée French artist Born in Paris, April 16, 1755, she studied under Vernet, and showed great skill in portratture at an early ago In 1775 she married the painter Jean Baptiste Le Brun, and for some years was a fashlonable portratt painter in Paris and a member of the Academy Her works number over 600 portraits and 200 landscapes Six of her paintings are in the Louvre, and she is represented in the National Gallery, London She died in Paris, March 30, 1842

She died in Paris, March 30, 1842

Le Cateau Town of France It stands on the River Salle, 15 m from Cambrai There in the Middle Ages the Bishop of Cambrai bull a castle and the place was called Cambrai le Cateau It was then in Flanders, but in 1678 it became part of France In 1659 a treaty between France and Spain was made here Pop 12,000

During the Great War, Le Cateau was continuously in the fighting area During the retreat from Mons Sir H Smith Dorrien and his corps made a stand here on Aug 26 1914

The British about 52,000 strong, held back the enemy until the afternoon, when the retreat was continued

was continued

The second Battle of Le Catean was fought Oct 6, 1918, part of the final British advance Three armies were engaged and a great deal of ground was recovered including Le Cateau

William Edward Hartpole Lecky historian Born near Dublin, March 26, 1838 he was educated at Chelten ham and Trinity College, Dublin, and became one of the foremost historians of the age He was Unionist M P for Dublin University from 1895 to 1903 He died Oct. 22, 1903

Leckys chief works are two philosophical studies of great value and interest, The Rise and Influence of Rationalism in Europe and The History of European Morals, as well as A History of England during the 18th Century He was given the Order of Merit in 1902 His Life was written by his widow

Leconfield Baron by the family of the family of Wyndham The first earl was George Wyndham, an illegitimate son of the last Earl of Egremont He inherited the earl's great He became an actor, but was more successful.

wealth and was made a baron in 1859 estates are around Petworth House, the family seat near Chichester

Adrienne French act Lecouvreur ress Born April 1692, she first appeared on the stage in 1717
She soon made a reputation and for some years
was the greatest trage actress of the time
She died March 20, 1730 Madame Lecouv
reur was also famous for her lovers, who included Voltaire and Marshal Saxe

Lectern Term applied to reading desk lessons are read. It is made of wood often elaborately carved, or of brass or bronze, and usually takes the form of an eagle with out stretched wings supported on a central column

Lectionary
Book containing portions of Scripture prescribed for reading at public worship throughout the tear, or a table of such lections or lessons. The practice of public Scripture reading, established in the Jowish synagogue, was continued in the early Christian church. The table of lessons in the Anglican prayer book was replaced by a new lectionary in 1879.

Leda In Greek mythology, the wife of Tyndareus, King of Sparta Zeus, in the form of a swan, visited her when bathing She thus became in one version of the story the mother of Castor and Pollux, Clytaemnestra and Holen of Troy The Leda and swan motive is represented on classical marbles, terra cottas, gems and wall

paintings

Ledbury Market town and urban district of Herefordshire 13 m triot of Herefordshire 13 m triot of Herefordshire 14 m triot of Herefordshire 15 m triot of Herefordshire 13 is named after Elizabeth Barrett Browning who lived here The main industries are tanning and malting Pop (1931), 3283

Ledger In book keeping the principal account book of a business Into it all debits and credits are posted from the journals cash book etc, so that it gives a complete record of financial transactions

ee Nautical term It is the side away from the one from which the wind blows, and therefore the sheltered side The other

is the windward or weather side

Lee District of London in the borough of Lewisham about 7 m S of the City on the S Rly There is a chapel built by Christopher Boone and almshouses of the Merchant Taylors Company The manor house, once a residence of the Earl of North brook, is now a public library Lee River of England It rises in Bed fordshipe and flows into the Thames

near Blackwall, 46 m long and navigable It is used to feed the New River From Enfield Look to Hackney a channel has been cut The Stort is its chief tributary, and it is managed by a conservancy board with headquarters in London The name is sometimes spelled Lea

Lee River of Cork Irish Free State It rises in a lake and flows through the county for 45 m until it falls into Cork Harbour It passes Macroom and flows in two arms past

Cork, to which city it is navigable

He became an actor, but was more successful

as a writer of plays He lived a very dissolute life and passed some years in Bethlehem Hospital He died in 1692 Lee's Lee's Glorana, or the Court The Rival Queens or and several others dramas include Nero, of Augustus Caesar, The Rival Queens or Alexander the Great, and several others With Dryden he wrote two tragedies in blank verse, The Duke of Guise and Oedipus

Lee Robert Edward American soldier Born in Virginia, Jan 19, 1807, the son of a general, Henry Lee, he became an officer in the army He served in the engineers and existed army the served in the engineers. and gained experience in the war against Mexico (1846), and in service against the Indians From 1852-55 he was Superin-

tendent of West Point.

In 1861, on the outbreak of the Civil War, Lee threw in his lot with the Southerners and commanded a force sent to the confederate army from Virginia. In 1862 he was pro-moted to command the forces around Richmoted to command the forces around Richmond and there he won some conspicuous successes, completely turning the tide of war for a time in favour of the south In 1863 he won a great victory at Chancellors-ville, and, although defeated at Gettysburg, he managed to hold his own against superior forces who were aided by the command of the sea In 1864 he conducted the famous Wilderness Campaign and succeeded in thwarting his opponent, Grant In Feb, 1865, Lee was put in command of all the southern forces, but by then they were too weak to make any impression on the strengthened Northerners On April 9, 1865, he was ened Northerners On April 9, 1865, he was surrounded and forced to surrender at Appomattox Court House In a short time he was pardoned, and he was President of Washington College Toyston Toyston (1964) ington ington College, Lexington, Oct. 12, 1870, when he died from 1865 to

Lee Sir Sidney English writer Born in London, Dec 5, 1859, his name was Solomon Lazarus He was educated at the City of London School and Balliol College, Oxford He began his literary career on the staff of The Dictionary of National Biography, and in 1891 was made its editor, being now known as Sidney Lee In 1898 his Life of Shakespeare appeared, and a revised edition in 1915 He also wrote Lives of Queen Victoria and Edward VII His other books include Great Englishmen of the 16th Century, and Great Englishmen of the 16th Century, and The Principles of Biography He was Pro-fessor of English Language and Literature at the East London College, and received many academic honours, including a fellowship of the British Academy He was knighted in 1911 and died March 3, 1926

Lee Sydney English artist. Born in 1866, he studied art in Manchester and Paris He won several prizes by his etchings and engravings as well as his paintings. His picture "Among the Dolomites" was bought for the nation and he has pictures in Liverpool, Glasgow and other cities, as well as in the South Konsington Museum He was elected A R A. in 1922 and R.A. in 1930

Lee William English inventor Born at Calverton, Nottinghamshire about 1560, he was educated at Cambridge He became a clergyman and was at Calverton from 1582 to 1593 While there he invented a frame for knitting stockings more quickly than they could be knitted by hand He took it to London and made a success of it. His concluding days were passed in Rouen and in Paris where he died about 1610

Leech Order of segmented worms They both possess suckers at one or both There ends and live on the blood of animals There are many species, some living in water and others in marsh land The best known, both found in England, are the horse leeoh and the smaller leech much used at one time by medical men The latter is about 2 in. long and sucks by making a triple wound with the tooth-like plate in its mouth

Leech John English artist Born in London, Aug 29, 1817, he was educated at the Charterhouse In 1841 he joined the staff of Punch, and his 3000 drawings in that journal show a fund of humour, combined with great technical skill, and form a most valuable companion to the history of the are. He illustrated The Christians Carel the age He illustrated The Christmas Carol by Dickens, and other books Many of his drawings are in the South Kensington Museum. He died in London, Oct. 29, 1864

He died in London, Oot. 29, 1864

Leeds City and county borough of Yorkshire (WR) It stands on the Aire, 185 m from London, and is served by both the LMS and LNE Rlys, as well as by canals to both the E and the W coast S Peter's is the parish church, while the Roman Catholics have the Cathedral, S Anne's Parks and open spaces include Roundhay Park and Woodhouse Moor The ruins of Kirkstall Abbey and the estate of Temple Newsam belong to the city

The chief industry of Leeds is the manu-

Temple Newsam belong to the crey
The chief industry of Leeds is the manufacture of cloth and clothing Others are
engineering works, leather works, printing
works and factories for making shoes, chemi-

works and factories for making shoes, chemicals, glass, etc Leeds was made a county borough in 1888 and its boundaries were extended in 1912 In 1897 its mayor was made a lord mayor Pop (1931) 482,789

The University of Leeds was founded in 1904, its nucleus being Yorkshire College, which consisted of the Leeds College of Medicine and the Yorkshire College of Science It has fine buildings, including a block erceted in 1928-32, and possesses equipment for all branches of scientific study Its medical school is famous school is famous

The Leeds and Liverpool Canal is a water-127 m long, connecting the district way, 127 m with the Mersey

Leeds Village of Kent It is 4 m from Maidstone There are ruins of a castle The building was formerly a fortress and its gateway and the drawbridge over the moat remain

Leeds Since 1694 by the family of Os-borne Sir Edward Osborne was a London borne Sir Edward Osborne was a London apprentice in the 16th century He married his master's daughter and became very rich His grandson, Edward, inherited his wealth, including estates in Yorkshire, and was made a baronet His son, Thomas Osborne, was made Earl of Danby in 1674, and Duke of Leeds 20 years later The titles passed to the duke's son and other descendants Francis, the 5th duke, married the heiress of the Earl of Holderness and obtained Hornby Castle He was Secretary of State from 1783 to 1789 When the 7th duke died in 1859, the title bassed to a younger son of the 5th duke, whose passed to a younger son of the 5th duke, whose descendant still holds it.

the Lee Metford and adopted by the British the Lee Metford and adopted by the British army and navy. The rifle has a length of 441 in, with a weight of 8 lb 141 oz, and a calibre of 303 in The range is 2000 to 3700 yards, for which there are two sets of sights The magazine holds ten cartridges, fed to the barrel by a spring worked by a bolt action

Lee of Fareham Viscount Engpolitician Arthur Hamilton Lee was born Nov 8, 1868, and educated at Cheltenham College After a course at Woolwich he passed into the army and served therein until 1900 For part of For part of the time (1893 98) he was a professor at the Royal Military Academy Kingston, Canada In 1900 he was elected Unionist M.P. for the Farcham division, and from 1903 05 he was In 1915 he Civil Lord of the Admiralty Secretary became Parliamentary to the Ministry of Munitions and in 1917 18 he was Director General of Food Production In 1919 he was made Minister of Agriculture, and in 1921 he became First Lord of the Ad miralty He resigned in Nov. 1922, having represented Great Britain at the Washington Conference Since then he has been chairman of important royal commissions and actively connected with Angle American and other movements In 1918 Lee was made a baron and in 1922 a viscount He inherited the estate of Chequers (qv), which, in 1921, he presented to the nation

ee-on-the-Solent Watering place. 91 m from London, on the S Rly Here are good sands and bathing

Leek Hardy bionnial bulbous herb of the lily order (Allium porrum)
It is grown from seed and later transplanted and cooked and eaten as a vegetable. The leek in the national emblem of Wales and is worn on

March 1, S David's Day

Leek Urban district of Staffordshire It

trom London and is also served by a canal Its fine old church of S Edward has four Saxon crosses The main industry is the manufacture of silk Near the town is Rudyard Lake Pop (1931) 18 556

Lees-Smith Hastings Bertrand Helph politician H Eng He was born in India in 1878, and educated at Alden ham School and for the army at Woolwich, but he abandoned a military career and gradu ated at Queen's College, Oxford He became known as an economist, and was connected with Ruskin College, Oxford, and the London School of Economics In 1910 he was elected MP for Northampton and he cat in the MP for Northampton, and he sat in the House of Commons as a Liberal until 1918 In 1922 he joined the Labour Party, and was elected MP for the Keighley division, but lost his seat in 1931 In 1929 Lees Smith was lost his seat in 1931 In 1929 Lees St made Postmaster General in the Labour Ministry, and in 1931 he was for a few months President of the Board of Education He re signed office in Aug, 1931, and in Oct. lost his seat in Parliament but was returned for Keighley in 1935

Leeward Islands Group of Islands in the W In dies They lie between the Atlantic Ocean and the Caribbean See and are called Leeward because of their position with regard to the trade winds

They extend from Puerto Rico to Martinique and the British Islands include Dominica, Montserrat, St Kitts, Antigua Kitts, Antigua

Anguilla, Nevis and some of the Virgin Islands Barbuda and Redonda are dependencies They cover 715 sq m, and are under a governor executive and councils. Antigua is the seat of government. Sugar and molasses are produced, and lime juice is made Cotton and tobacco are grown In 1933 it was proposed to unite the grown In 1933 it was proposed to unite the Leeward and Windward Islands under one governor, with headquarters at St. Lucia, and to name the new colony the British Caribbean Islands Pop (1931) 127,829

Martinique, Guadeloupe and St Martin belong to France Those of the Virgin Islands that are not British belong to the USA, having head beauty from Depring in 1916

having been bought from Denmark in 1916 eft In politics a party holding advanced views radicals or socialists When the National Assembly met at Versailles in

1789 the extremists sat on the left of the hall, the moderates on the right.

Leg Limb supporting and moving the body Most vertebrates have two pairs Insects have normally three pairs, spiders, four, higher crustacea, five, some millipedes more than 100 pairs. The human leg or shank contains the tibia or shin bone which enters into the knee joint and, aided by the fibula, into the ankle joint.

Money or property left to a person by will A gift of a Legacy Money or property left to a particular thing, a picture by Reynolds for instance, is a specific legacy. A general legacy is a gift of money out of the estate is not enough money to pay all the legacies each must accept the same proportion, unless, by the terms of the will one or more legacies are to have preference

Legacy Duty Tax payable by per sonal property owing to the death of another In the case of real estate the same duty is payable, but it is called succession duty Both rank as death dutles Legacy duty is payable by the recipient unless the person leaving the money orders it to be paid from the estate. The rate is 1 per cent to husband, wife or lineal descendants 5 per cent. to brothers and sisters and their descendants and 10 per cent to all other persons

The duty is not payable when the total value of an estate is £15,000 or less, nor when the sum left to a widow or child under 21 years of age does not exceed £2000, nor when the total amount received by a husband, wife or lineal descendant does not exceed £1000

Legal Tender Money or currency in which debts can legally be paid In Great Britain and N Ireland notes of £1 and 10s are legal tender for payments of any amount Bank notes of greater value than £1 are legal tender in England and Wales only Gold coins are legal tender to any amount. Silver coins are legal tender up to £2 and bronze ones up to 1s

Legate Ambassador, also called a nuncio, sent by the pope on errands of importance They are usually cardinals and importance

members of the papal court.

Legation Term used for the minister to a foreign country and his stan It is also used for the building in which they conduct their business unless this ranks as an embassy The land on which it stands is regarded by international law as part of the country it represents and the building is usually free from all rates and taxes

Legend Something appointed read Originally it to he WAS

passage of Scripture read in divine worship and later something from the lives of the saints in monastic refectories, e.g., Voragine's Golden Legend It embraced also secular tales, e.g., Chaucer's Legend of Good Women From their fabulous tendency the word came to denote a story, often fancifully embroidered, differing from a myth because it concerned a nation, family or individual, and had a basis of truth. It denotes also an inscription on a coin, monument, or coat of arms

ment, or coat of arms

Leghorn City and seaport of Italy, called Livorno by the Italians on the W coast, 12 m from Pisa and 50 from Florence Its fine harbour, enlarged in the 20th century, has made shipping the chief industry, along with shipbuilding and glass-making At one time the city was famous for its straw hats and for a breed of fowl popular in Great Britain popular in Great Britain

leghorn, when a very small place, passed from one ruler to another until, in 1421, it became a dependency of Florence, then ruled by the Medici family, who made it a place of some importance Pop (1931) 124,391

Legion Unit of the Roman Army usually fixed at about 6000 In addition each legion had 300 cavalry and a number of auxiliary troops There were 25 or 30 legions, each divided into 10 numbered cohorts, with an eagle as a standard

Legion of Honour French order, founded by Napoleon in 1802 The president of the republic is the grand master, and there is a chancellor and a council The badge is a five armed cross surmounted by a laurel wreath and suspended by a red ribbon Soldiers, sailors and civilians are alike eligible for membership, which, during the Great War, was given to soldiers of the allied countries It was also given to towns in France and It was also given to towns in France and Belgium Members are divided into five classes grand cross, grand officer, commander, officer and chevaller

In 1930 the Irish Free State decided to establish a Legion of Honour

Legislation Making of laws The Making of laws The meet changing conditions is an important part of the work of the modern state. In Great Britain legislation is primary, ie, the making of laws proper, or secondary, ie, the making of rules by local authorities or departments, to carry out the laws.

There is a Society of Comparative Legislation at 1 Elm Court, Temple, EC 4 See LAW

 $\mathbf{L}^{\mathbf{H}}$ 

Legislature Name used for any body that has the power of making laws In Great Britain and other parts of the British Empire it is the two Houses of Parliament, in the United States the two Houses of Congress, and in France the Chamber of Deputies and the Senate In some cases the legislative powers are limited by the constitution, which may often contain clauses defining the powers of each house See Parliament.

subsequent marriage did not make children legitimate in England, although it did so in Scotland and other countries where Roman law prevailed

Legitimists Name used for those who throne of a fallen dynastr. They believe that, throne of a fallen dynasty They believe that, although kings may lose their thrones, they cannot lose their rights, and therefore their claims remain good In Great Britain the Jacobites, who hold that a descendant of Charles I is the rightful sovereign, are legitimists In France the legitimists believe in the claims of the Bourbons, in Spain they support the claim of Alphonso XIII and his sons Sec Jacobites Sec JACOBITES

Legros Alphonse French artist Born at Dijon, May 8, 1837, of humble parents, he worked for a time as a painter and decorater He studied art and settled

and decorater He studied art and settled in London, where he taught etching at S Kensington In 1876 he was appointed Slade Professor of Fine Art at University College, London, a post he held until 1892 Legros died Dec 8, 1911

Legumin Nitrogenous substance or processituents of the reserve food material bean, and belongs to the group of globulins, distinguished by their insolubility in water and solubility in saline solutions and solubility in saline solutions

Lehar Franz Hungarian composer Born April 30, 1870, after studying at Vienna and Prague he became a conductor, producing his first opera, Kukuska, subsequently called Tahana, in 1896 His charming melodies and waltzes have earned him great popularity, and among his successes may be mentioned The Merry Widow, Paganini, Gypsy Love and Frederica

Gypsy Love and Frederica

Leibnitz Scholar Born at Leipzig,
July 6, 1646, he lived for some time in Paris
and visited London His early study of the
law was abandoned for mathematics, and he
discovered a new method of the calculus,
which led to a dispute with Sir Isaac Newton
He invented a calculating machine
In 1676 Leibnitz was made librarian to the
Duke of Brunswick at Hanover, and there
he became a trusted friend of the family
He tried to reform the coinage, and to bring
about something like a union of Christendom.
In 1700 he persuaded Frederick I, King of
Prussia, to found the Academy of Sciences
at Berlin, and of this he was made president
He died at Hanover Nov 14, 1716

Leibnitz possessed a powerful and original
mind, his interests were multifarious and his
influence great, but his best work was done
as a philosopher He expounded as system
in which substance consists of atoms, or

parts of the British Empire it is the two Houses of Parliament, in the United States the two Houses of Congress, and in France the Chamber of Deputies and the Senate In some cases the legislative powers are limited by the constitution, which may often contain clauses defining the powers of each house See Parliament It is usually applied in English and Scottish Law to cases of marriage and birth Marriages are legitimate if neither party has a husband or wife living and if other conditions as to age and relationship are observed Children are legitimate if they are born in lawful wedlock, or if the parents are subsequently married if not they are illegitimate Before 1926 a

The making of hostery is the principal dustry there are also factories for making boots and shoes, cotton goods, etc. In 1919 Leicester was made a city and in 1927 its became the seat of a bishop In 1928 its mayor was given the title of Lord Mayor Leicester occupies the site of the Roman station, Ratae, and there are Roman remains as well as remains of its mediaeval walls. Pop (1931)

Leicester Earl of English title borne by several families The by soveral families The first earls were the Norman Beaumonts and later came Simon de Montfort (1206) Edmund Earl of Lancaster, a son of Honry III (1285) and in 1564 Robert Dudley Robert Sidney, a brother of Sir Philip Sidney, was made earl in 1618 and the Sidneys held the title until 1743 Thomas Coke was earl from 1744 to 1750 and the Townshand family held

1744 to 1759, and the Townshend family held the earldom from 1784 to 1855 In 1837, Thomas William Coke was made earl, his title distinguished as Lelcester of Holkham He was a son of Robert Wenman, who took the name of Coke when succeeding to the estates of his uncle, the Earl of Leicester, who died in 1759 Thomas W Coke, born Vlay 6, 1752, inherited the estates in 1776 and became the most famous agriculturist of and became the most famous agriculturist of his day He was for years an M.P and a leading social figure He drained and culti-vated the land around his Norfolk seat, Holkham Hall, making it very productive He did much to improve the breed of sheep and cattle and the quality of the crops He died June 30 1842, and the title is still held by a descendant. The earl's eldest son is by a descendant. called Viscount Coke

Leicester Earl of English courtier about 1632, a younger son of John Dudley Duke of Northumberland He was a member of parliament and served as a soldier, but he is best known as the husband of Amy Robsart and the sultor of Queen Elizabeth, whom he entertained in his magnificent castle at Kenil worth in 1575 In 1560 Amy Robsart, whom he married in 1550, died at Cumnor place, Oxford, probably by foul play, in 1573 he married Lady Shenfield and in 1578 he bigamously married Lattice Counters he bigamously married Lettice, Countess of Essex, but all the time he was paying his addresses to Elizabeth In 1564 Dudley was made an earl, and in 1585 he was sent with an army to the Notherlands, but he showed no great military skill In 1586 87 he was Governor of the United Provinces, and in 1588 he commanded the force at Tilbury gathered to meet the Spaniards He died Sept 4, 1588, it is said by poison

Leicestershire County of England It covers 823 sq m and is mainly level, but contains Charnwood Forest with its hills and the Wolds in the NE Agriculture is the chief industry, and there is some coal mining Leicester is the county town Other places are Loughborough, Hinckley, Market Harborough and Coal Coal Lutterworth and Hinckley, Market Harborough and Coal ville Ashby de la Zouch, Lutterworth and Belvoir are places of historic interest, and Melton Mowbray a hunting centre The county is a famous hunting shire and is a first-class cricketing county Pop (1931) 302,683

The Leicestershire Regiment was raised in 1688 and known as the 17th Foot. It has a long record of service and is called The

including Bradgate and Abbey, both with Tigers, from the regimental badge granted historical associations in 1804 The depot is at Leicester

Leiden Town of the Netherlands, from the Hague The Old Rhine flows through the town, which is well served by rallways. There is a butter market and a weigh house, and the contract of the con and the museums contain valuable collections of antiquities and works of art. The industries include cloth making, printing and a trade in farm produce

Leiden is famous for its university, founded in 1575, at one time one of the greatest centres of learning in Europe The great event in its history was its siege by the Spaniards in 1572 73, when it was relieved by flooding the adjacent land Pop (1932) 71,598

Leigh Borough and market town of Lanca h shire, ii m from Manchester on the L M.S Rly The main industry is the manu facture of cotton Pop (1931) 45 313

Leigh-on-Sea Watering place of Essox It is on the Thames estuary, 33 m from London on the L M S Rly It adjoins Southend-on Sea, and has been part of the borough since 1913 It has some shipping and is a fishing centre

Leighton Lord English artist. Fred-Scarborough, Dec 3, 1830 He was educated mainly in Italy and studied art in Brussels, Paris, Frankfort and Rome He made a reputation with "Cimabue s Madonna carried in Procession" in 1855 In 1858 he settled in London, and in 1864 was elected A.R.A., and in 1866 R.A. In 1878 he was made President of the Royal Academy Knighted in 1878 he became baronet in 1886 and laron in 1878 he became baronet in 1886 and baron in 1896 On Jan 25, 1896, he died unmarried and was buried in St Paul's Cathedral

Leighton was a careful student of Greek art and had a remarkable sense of beauty His pictures, mainly classical in style and subject, include "Paolo and Francesca," The Harvest Moon," "Wedded," 'The Bath of Psycho" and "Flaming June"

He was also a fine sculptor as he proved by his "Athlete Struggling with a Python," now in the Chantry collection He built, in 1866, Leighton House at 12 Holland Park Road, Kensington It is Oriental in style, and many of the decorations were brought from Syria Its most notable apartment is the Arab Hall It is now a public museum, and in 1928 two galleries were added

Leighton Buzzard Market town and urban urban district of Bedfordshire It stands on the Ousel, 41 m from London, on the L.M.S Rly There is a beautiful market cross and an old school The town lives chiefly on its agricultural trade Pop (1931) 7031 agricultural trade

Leinster Province of Ireland It is State and covers the E and S E part of the country It contains 12 counties—Carlow, Dublin, Kildare, Kilkenny Leix, Longford, Louth Meath, Offelly, West Meath, Wexford and Wicklow The Shannon divides it from Convenient

Leipzig City of Germany It is in Saxony, 74 m from Dresden and 104 from Berlin Famous as a trading, musical and educational centre, and for its historic associations, it has the largest railway station in Europe, two airports and the supreme law court of the Republic There are several museums, including one of the book trade, a stock exchange and fine theatres and concert halls A tower of the citadel is now part of the town hall It has been for is now part of the town hall It has been for centuries a centre of the bookselling and fur trades, and these are the chief articles sold at the famous Leipzig Fair, now held twice a year The manufactures include chemicals, machinery, paper, scientific and musical instruments, etc Printing is an important industry and owing to its position the city is a great distributing centre It has a broadcasting station (259 M., 2 kW)

The University of Leipzig, founded in 1409, is one of the most celebrated in Germany It has an observatory and botanical carden.

It has an observatory and botanical garden, and an institute of agriculture The schools include the noted Conservatoire of Music Leipzig became a centre of Protestantism and the University was one of the strongholds

of the reformed learning Pop 679,159
The Battle of Leipzig, called "the battle of the nations," was fought Oct 16-18, 1813, between the French under Napoleon, and the allied Russians, Austrians and Prussians The French were defeated with heavy losses

Leiston Urban district of Suffolk, 4 m from Saxmundham on the The main industry is agricultural LNE RIT and the chief object of interest the abbey runs. Pop (1931) 4184

Leith Port of Edinburgh, on the Firth of Forth, 2 m N of the city, on the L N E and L U S Rlys It has a large harbour, enlarged just before the Great War, and extensive docks, and is connected with Edinburgh by Leith Walk The chief industry is shipping, others are distilling, sugar results and the magnificative of chemicals is shipping, others are distilling, suggesting and the manufacture of chemicals

Leith belonged for two centuries after 1329 to the citizens of Edinburgh and was several times attacked by the English It had a surrounded by walls In citadel and was surrounded by walls In 1533 it was made a burgh, but in 1920 it was included in Edinburgh

Leith Hill Hill in Surrey, on the S Dorking and 965 ft high, the highest point in the SE of England There are fine views from the summit, on which is a tower

Leitrim County of the Irish Free State
It is in the province of Connaught and covers 613 sq m, with hills in
the N and E The Shannon flows along its
borders and E The Shannon flows along its the N and E The Shannon nows along its borders, and Lough Allen is the largest lake Carrick-on-Shannon is the county town, others are Manor Hamilton, Mobill and Jamestown Leitrim itself is a village on the Shannon There is a small coalfield in the county but agriculture is its stanle industry

Shannon There is a small coalified in the county, but agriculture is its staple industry Pop (1926) 55,907

The title of Earl of Leitrum has been borne since 1795 by the family of Clements. The first holder was Robert Clements, an Irish M.P. The family estates are in Donegal and Leitrim, and the carl's eldest son is called Baron Clements

The 10th earl was executed in 1537 The family seat is Carton, near Maynooth, and the duke's eldest son is styled the Marquess of Kildare.

I cinzio City of Germany It is in Secret by the Gt S Riys and the Square of Secret Secret Search Secret Search Secret Search Sear Grand Canal Maryborough is the county town, other places are Portarlington, Mount-mellick, Stradbally and Abbeylety. The chief rivers are the Barrow and the Nore Agricultural pursuits occupy most of the people, but the soil is not very fertile as there is much bogland In the N are the Slieve Bloom Mts Pop (1°26) 51,540

Pop (1926) 51,540

Leland John English writer Born in London about 1506, he was educated at S Paul's School and Cambridge He showed a distinct aptitude for research, and in 1533 became the Roval Antiquary He wrote Itnerary, describing a journey through England and Wales which has been of great value to modern scholars He left an immense collection of notes His reason gave way and he died April 18, 1552

Lely Sir Peter English painter He was born near Utrecht, Sept 14, 1618, and studied art in the Netherlands He settled in London in 1641, became an English subject and was knighted and made Court Painter by Charles II. He died Nov 30, 1680

Lely is best known for his portraits of the ladies of the court of Charles II, which are now in Hampton Court Palace

Leman Gerart Mathieu Joseph Georges Belgian soldier Born Jan 8 1851, he was educated for the army which he entered in 1872 In 1880 he was made professor at the military college, and in 1905 its commandant In 1914 he was commanding the fortress of Liége, which he defended against the Germans until it was taken He remained a prisoner of war until Jan, 1918 Leman died Oct 17, 1920. Oct 17, 1920

Lemberg Town of Poland, known also as Lwow, in Galicia, 355 m from Vienna It is a great railway junction, and has cathedrals of the Greek, Armenian and Roman Catholic churches The city has many manufacturing and other industries Lemberg was founded in the 13th century, and its famous university dates from 1661 In 1772 it was taken from Poland and given to Austria, when it became the capital of Galicia

1772 it was taken from Poland and given to Austria, when it became the capital of Galicia In 1919 it became part of the new Poland Pop (1931) 315,177

There was much fighting around Lemberg during the Great War After some hard and prolonged battles, it was evacuated by the Austrians and entered by the Russians early in Sept., 1914

There was another great battle for it, in 1915, and in Juna the Russians was the for it, in 1915, and in Juna the Russians was the second of the in Sept., 1914 There was another great battle for it in 1915, and in June the Russians were driven out by the Germans

Lemming Rodent of the voic family, about 5 in long, rellowish it is found in Europe, Asia and N America It lives in the ground like the rabbit and feeds on grass It is very common in Norway It has a habit of migrating at certain times, in enormous numbers the animals move across the country, cating the crops on their way, until they reach the sea They swim there until they are drowned The banded lemming turns white in winter

Lemnos Island of Greece in the Aegean to the Dardanelles It covers 180 sq m to the Dardanelles It covers 180 sq m The chief town is Lemnos, or Castro, and the chief crops fruit and tobacco Mudros Bav, like Lemnos itself, was used by the Allies during the Great War against Turkey The island

was a Turkish possession from 1478 to 1925 In ancient times it was famous for its earth, which was believed to cure cases of plague

which was believed to cure cases of plague and poison Pop 25,000

Lemon Oval fruit of an evergreen tree, apparently a variety of citron (Citrus medica), known only in its cultivated state Extensively grown in Italy, Spain, Greece, California, Florida and S Africa, its yellow rind furnishes candied peel and an essential oil tirs pulp ag a titles is used for essential oil its pulp, as a julce, is used for lemonade and citric acid, and for various cooking and medicinal purposes Large quantities are imported into Great Britain

Lemon Mark. Fnglish writer and humo rist Born in London, Nov 30, 1809, the son of a hop merchant, he became manager of a brewery in London He founded and edited The Field and edited also The London Journal and The Family Herald In 1841 he helped to found Punch, and he was its editor from 1843 to 1870, when it became a national institution. a national institution Lemon wrote many plays, including *Hearts are Trumps*, several novels and a good deal of other literature, including fairy stories and a *Jost Book* As Uncle Mark he won a reputation as a lecturer,

Uncle Mark he won a reputation as a lecturer, and he was also known as an amateur actor He died at Crawley, May 23, 1870

Lemonade Beverage comprising lemon juice diluted with water and sweetened with sugar Boiling water is left to cool It is a palatable thirst quenching drink, used hot or cold A pinch of blear bonate makes it effervescent. Aerated water flavoured with essence or peel of lemon is called lemonade

called lemonade

Grass tall aromatic grasses tropics emon They are widely cultivated in the tropics for their essential oils. That sold as East Indian is distilled from Andropoon flexuosus indigenous to Cochin and Thavelly, West Indian comes from A citratus, also produced in Coylon and Malaya. They often masquerade as oil of verbena.

Lemon Sole Flatfish allied to the dab, extensively caught in awlers in the N of Europe It is smaller trawlers in the N of Europe but wider than the ordinary sole, to which it is inferior in flavour It spawns in the spring and early summer The fish is not allied to the true sole, the name being a cor ruption of the French hmande, meaning dab

John British soholar Lemprière John British scholar He was born in Jersey about 1768, educated at Winchester and Pem broke College, Oxford, and became a school master In 1792 he was made headmaster master in 1792 he was made negatives of Abingdon Grammar School, and, having been ordained was vicar of Abingdon, 1800 09 He then went to Exeter as headmaster of the grammar school there, and later held livings in Devonshire He died Feb 1, 1824 Lemprière's name lives through his Classical Dictionary and his Universal Biography

Lemur Family of monkey like mammals They are confined to Mada gascar and the Comoro Islands, but at one time roamed over Europe and Africa The head resembles that of the fox and the general appearance is something between a cat and a They live in trees and sleep during me Their food consists of small monkey the daytime birds insects eggs, fruit, etc. The several species vary in size, but all are tameable and affectionate

Lena River of Siberia. It rises near Lake Baikal in the S, flows mainly N and falls into Nordenskield Sea, a branch of the Arctic Ocean One of the longest rivers of the world, it is a gold bearing stream, 2900 m long The property of the English company which worked the gold has been seized by the Soviet authorities The Lena Islands are in the estuary

Lenglen Suzanne player French lawn tennis Born at Complègne, May 29, 1899, she won her first championship when only 14 From 1919 to 1925 she held the Ladies' Singles Championship at Wimbledon, and she won similar honours in France and the U.S.A. In 1927 she became a professional She has written several books on the game, and her first novel was published in 1925

Lenin Name taken by the Bolshevist leader, Vladimir Ilyich Ulyanov He was born April 10, 1870, the son of a schoolmaster, and was educated at Simbirsk, his birthplace, and then at the University of Kazan As a student he was a leader in the demonstrations against authority prevalent at that time He went to St. Petersburg to study law, and was exlied to Siberia. Released in 1900, he lived for a time in Paris and London He was in Russia during the brief revolution of 1905, after which he resided chiefly in Switzerland. in Switzerland During these years he was one of the leaders of international socialism

In 1917 the German Government agreed to an arrangement by which Lenin and other leaders were to return to Russla They passed from Switzerland to Germany in a closed train and reached Petrograd Kerensky was then dominant in Russia, and the new arrivals were unable to overthrow him. Trotsky, who was by now closely associated with Lenin, was put in prison, while Lenin escaped by flight With Trotsky released, they re newed their agitation and in Nov., 1917, they succeeded in destroying the authority of Kerensky The new ideas of government worked out by them during the years of exile were then put into operation A council of people's commissioners was set up with Lenin as president, and the system known as Bol shevism was established Peace was signed with Germany and Moscow made the country's capital in March, 1918 Opposition was capital in Marci, 1916 opposition was ruthlessly crushed and the system established by Lenin and Trotsky remained dominant Closely guarded in the Kremlin, Moscow, Lenin retained his power until his death, Jan 31, 1924 The Bolshevists honoured his memory by a magnificent tomb In had been renamed Leningrad In 1920 Petrograd

Leningrad City and seaport of Russia, formerly known as St Petersburg and then as Petrograd, and until 1918 the capital of the country At the mouth of the River Neva, the oldest part is on an island and the larger part on the left bank, and its harbour is used by medium sized ships A ship canal leads to its outport, Kronstadt

Leningrad has some fine buildings, including the famous winter palace overlooking the Neva. The Hermitage once housed one The Hermitage once housed one of the finest collections of treasures in Europe
The churches included the cathedrals of S
Isaac and the Kazan Cathedral, a model of
S Peters at Rome, but both have been
turned into museums. Other churches have Other churches have tled The fortress of been closed and dismantled Peter and S Paul contains a famous son There is a university founded in prison

1819, and many colleges and schools The famous thoroughfare long called the Nevski famous thoroughfare long called the Nevski famous the been renamed Oct 25 Street The chief industry is shipping for which there are extensive docks

There are two broadcasting stations (1000 M, 100 kW and 351 M 1 2 kW)

Leningrad was founded in 1752 by Peter as Great who made it the capital There the Great who made it the capital There have been several risings in the city, notably in March, 1917 In 1931 a scheme for rebuilding the city and restoring its prosperity was put forward Since 1918 the population has declined, it is now 1,617,007

Lennox District of Scotland It goes from Dumbarton to Stirling, It goes and includes the country of Dumbarton and parts of the counties of Stirling, Renfrew and Perth In the district are the Lennox and and Perth In the district are the Lennox and Kilpatrick Hills and the Campsie Fells There was an Earl of Lennox in the 12th century, and a later earl was father of Lord Darnley In 1581 Esme Stuart was made Duke of Lennox, but the title died out in 1672 In 1675 Charles II gave it to an illegitimate son, Charles Lennox, Duke of Richmond, and it has since been held by the dukes of Richmond

Lennoxtown Town of Stirlingshire, from Glasgow on the LNE Riv It is a coal mining centre and has also textile mills Pop 2600

Leno Dan English comedian, whose real name was George Galvin He was born Dec 20, 1860, and won fame as an entertainer by his clog dancing He was also something of an acrobat In 1888 he appeared in London in the pantomime at Drury Lane, and for the next 20 years he was nerhang the most nonuler figure in vertex. perhaps the most popular figure in variety entertainments. His native humour, unique of its kind and quite clean, delighted thousands Leno died Oct 31, 1904

Lens Portion of a transparent medium, usually glass, enclosed between two surfaces which are parts of spherical or plane surfaces. In passing through a lens light rays are refracted and become more convergent or divergent according to the type of lens Convex lenses, which are thicker at the centre than at the edges, are either double convex, plano convex or concavo convex Concave lenses, thinner at the centre than at the edges, have corresponding forms to the convex type

Lens Town of France It is on a canalised nver, 13 m from Arras, and stands on a rich coal field, with engineering works and iron and steel industries Buildings destroyed during the Great War have been rebuilt and industries restarted A memorial church has been built by the Canadians In the Middle Ages and later Lore was a contract to the Middle Ages and later Lore was a contract to the Middle Ages and later Lore was a contract to the Middle Ages and later Lore was a contract to the Middle Ages and later Lore was a contract to the Middle Ages and later Lore was a contract to the Middle Ages and later Lore was a contract to the Middle Ages and later Lore was a contract to the Middle Ages and later Lore was a contract to the Middle Ages and later to the Middle Ag

church has been built by the Canadians
In the Middle Ages and later, Lens was a
fortified town, in Aug, 1649, the Spaniards
were defeated by the French In Oct, 1914,
the Germans occupied Leus, and attempts to
recover it failed, one being made in the Battle
of Loos in Sept, 1915 The Germans evacuated it on Oct 2, 1918 Pop (1931) 33,513

Lent In the Christian year the 40 days just before Easter It begins on Ash Wednesday, and is for many a time of abstinence It commemorates the 40 days passed by Christ in the wilderness The French call it carême

Lenthall William English politician Born in June, 1591, the son of a landowner in Oxfordshire, he was educated a landowner in Oxfordshire, he was educated to the control of the landowner in Oxfordshire, he was educated to the landown at Oxford. He became a barrister and in 1640 | 457 to 474

was elected MP for Woodstock Charles I appointed him Speaker In 1641 Charles I of the House of Commons, and he retained the office until 1653 Throughout the Civil War Cromwell addressed to him his letters about the wen addressed to him his letters about the campaign. He was speaker again in 1659 when the Rump was recalled Lenthall was exempted from pardon in 1660 but he was unmolested, and he died at his residence at Burford, Oxfordshire, Sept 3, 1662

Lentil Annual herb of the order Leguminosae It grows in the Mediter-

ranean region and bears single pale-blue flowers Its seeds are a valuable article of food, as they contain a very high proportion of carbohydrates and protein. They grow in pods and can be cooked whole or split, or ground into a meal

Leo Name of one of the constellations the Great Bear, and contains a number of important stars, such as Regulus, or  $\alpha$  Leonis, the blue star, Denebola, or  $\beta$  Leonis, and the double star, Algieba It is also the fifth double star, Algieba It is also the fifth sign of the Zodiac, and as such no longer corresponds with the constellation

Leo Name of 13 popes The most important and Leo XIII, who are noticed separately Leo II was pope, 682 83 Leo III, pope from 795 to 816, 682 83 Leo III, pope from 795 to 816, crowned Charlemagne emperor and was canonised in 1673 Leo IV, pope from 847-855, built the part of Rome called after him the Leonine city Leo V was pope in 903 and Leo VI in 928 Leo VII was pope, 936 to 939, and Leo VIII from 964 to 965 Leo IX, a German, was pope, 1049 to 1054 Leo XI, like Leo X, a member of the Medici family, was pope for a few weeks in 1605 Leo XII pope from 1823 to 1829, was a harsh and unpopular ruler at a time when liberal ideas were spreading rapidly in Europe ideas were spreading rapidly in Europe

Leo I. Pope from 440 to 461 He was heresies and in strengthening the authority of Rome He is best remembered, however, as the pope who saved the city from Attila and his Huns, and later protected it when it was captured by Genseric and the Vandals He died in Rome, Nov 10, 461, and was canonised He is known as Leo the Great

Leo X. Pope from 1513 to 1521 A son the Medici family, he was born in Rome, Dec 11, 1475 He was made a cardinal and in 1513 11, 1475 He was made a cardinal and in 1515 was chosen pope Thoroughly secular in his outlook he was the typical pope of the Renaissance He carried on several wars, but his chief interests were in his splendld court, where art and literature flourished The Reformation began during his reign He died Dec 1, 1521

began during his reign He died Dec 1, 1521

Leo XIII. Pope from 1878 to 1903

studied for the priesthood and in 1837 was ordained He served Pope Pius IX in a secular capacity, both in Italy and the Netherlands, and in 1846 he was appointed Archbishop of Perugia. In 1853, as Cardinal Pecol, he was one of the leading personages at the papal court Very active, he was on good terms with most of the European countries, but would not recognise the Italian Government in Rome He wrote poems and issued several encyclical letters, one on capital and labour He died July 20, 1903

Leo Name of six East Roman emperors Leo I called the Great reigned from 457 to 474 His grandson, Leo II only reigned

for a few weeks Leo III, the greatest of the six, founded the Isaurian, or Syrian, dynasty when he began to reign in 717, and in 726 he forbade the worship of images.

Leominster Borough of Herefordshire at the junction of three small rivers, 157 m from London and 12 from Horeford, on the G W and L M S Rlys The magnificent church has a Norman nave There is a trade in hore is a trade in hops Pop (1931) 5707

Leon Kingdom of Spain It originated in short periods with Aragon and Castile it was finally united with Castile in 1230 It covered about 20,000 sq m in the N W of the country, and included, as well as the capital Leon, the cities of Salamanca and Valladolid

Leon City of Spain, 174 m NW of Madrid, in mountainous country Its cathedral is Gothic (founded 1199) and around the old city are the mediaeval walls and gates Beyond Pop (1931) 29,337 is an industrial quarter

eon City of Nicaragua, Central America The town is a centre for trade in minerals, timber and coffee, which are exported from Corinto, 32 m to the N It dates from 1610 and was formerly the capital of the republic Pop 23,565

Leonardo da Vinci Italian artist Born in 1452 at Vinci, near Florence, he was the illegitimate son of a lawyer About 1470 he worked in the studio of Verocchio and later he was in Egypt as an engineer In 1482 he settled in Milan, at the magnificent court of the Sforza family In 1500 he was architect and engineer to Caesar Borgia in Florence, and in 1506, invited by Louis XII, he went to France He died near Amboise May 2, 1519
Poet and scientific as yell see with the control of the court of the c

Poet and scientist as well as artist, his genius Poet and scientist as well as artist, his genius was expressed also in engineering, architecture and mathematics, and he anticipated many discoveries of modern science, including the airship The outstanding proofs of his artistic power are the 'Mona Lisa," in the Louvre at Paris "The Last Supper,' now somewhat faded at Milan and "The Virgin of the Rooks,' in the National Gallery, London Thero are collections of his drawings in the British Museum and at Windosr Castle He wrote a book on art. book on art

Leoncavallo Ruggiero Italian com posor Born in Naples in 1858, in his best known works, the operas Paghaca (1892) and Taza (1900), he used his sense of dramatic possibilities to full advantage His other works apart from La Bohème were not very successful He died Aug 9, 1919

Leonidas King of Sparta He is the leader of the small band of Spartans who defended the Pass of Thermopylae against the Persians He began to reign in 491 BC and was killed in the pass in 480, with all his followers about 1000 in number

Leonids Name given to the streams of meteors or shooting stars which appear to originate in the constellation Leo
These meteors are small bodies moving in
regular orbits, and when entering the earth's
atmosphere at a high velocity become in
candescent by the friction of the air The
leonids may be observed about November 14 and at intervals of about 33 years showers of exceptional brilliancy occur when the earth has a certain amount of trade crosses the orbit of a metcoric band took it from Venice in 1499

Leopard Large member of the cat family, Felis pardus, found in Africa and Asla, and notable for its spots. The fur is tawny and is valued for rugs The average length is about 4 ft. The leopard preys by night on other animals, such as dogs, goats and monkeys and is very savage, although it will not usually attack man. It can climb trees One variety is called the snow leopard, and there is a black leopard in Africa, now becoming rare In India the true leopard is called the panther the word leopard is reserved for the cheetah, which is a

Leopold Name of two Holy Roman emperors Leopold I was born June 9, 1640 and educated to be a priest. On the death of his elder brother, in 1654, he became emperor, and much of his reign was occupied in wars with France under Louis XIV Ho had also to resist the edwares of the Create and deal. resist the advance of the Greeks and to deal with revolts in Hungary and Bohemia secure for his son, Charles, the throne of Spain he entered upon the War of the Spanish Succession, but died in the midst of it, May 5 1705 His two sons, Josoph and Charles, succeeded him in turn
Leopold II, a son of Francis I and Maria Theresa, became Grand Duke of Tuscany in 1765. In 1700 he became emparent successions

1765 In 1790 he became emperor in succession to his brother, Joseph II, but he died soon afterwards, March I, 1702 He was succeeded by his son, Francis II

Leopold I King of the Belgians Born at Coburg, Dec 16 1790, a son of the Duke of Saxe Coburg Gotha, he became a soldier and fought against Napoleon In 1816 he married Charlotte, only daughter of George IV, and was made Duke of Kendal In 1831 he was chosen the first King of the Belgians and soon he married as his second wife a daughter of Louis Philippe He reigned for 34 years and did a great deal to make Belgium a peaceful and prosperous country. He took a continual interest in affairs in Brittain He died Dec 10, 1865, leaving two sons his successor Leopold, and Philip, Count of Flanders

Leopold II King of the Belgians The club of Leopold I, he was born in Brussels, April 9, 1835, and, as Duke of Brabant, served in the army Ho became king in 1865 and ruled, on the whole successfully, for 44 years His management of the Congo Free State, which he owned until 1908, brought upon him a certain amount of odium He died at Lacken, Dec 17, 1909, and was succeeded by his nephew, Albert.

Leopold III King of the Belgians Son born Nov 3, 1901, and in 1926 married Princess Astrid of Sweden On the death of his father in a mountaineering mishap on Feb 23 he succeeded to the throne In the following year he and Queen Astrid were involved in a road accident and she was killed (Aug., 1936) His elder son is called the Duke of Brabant

Leopoldville Capital of the Belgian Congo It is on the left bank of the Congo, near Stanley Pool and was founded in 1882 It is a river port It is a river port and an administrative centre In 1923 it was made the capital of the state Pop 10 000 Lepanto Harbour of Greece It is on the Gulf of Corinth and

The Turks

The Battle of Lepanto, one of the great naval The Batue of Lepanto, one of the great havainghts of the world, was fought Oct. 7, 1571
Spain, Venice and Genoa united to send a fleet against the Turks of about 200 galleys, under Don John of Austria Italmost destroyed the Turkish fleet of 275 galleys, and put an end to the naval power of the sultan

Lepidoptera order of insects repre-files and moths They are characterised by

files and moths They are characterised by having four wings covered with minute coloured imbricating scales, a hairy body and sucking mouth parts Their metamorphosis is complete, consisting of a larva or caterpillar, possessing spinning glands, a pupa or chrysulis, and an imago or perfect insect

Lepidus Marcus Aemilius Roman solborn about 74 B c and in the war between Caesar and Pompey, supported Caesar who made him Dictator of Rome and Consul In 43. after Caesar's murder, he was, with Mark 43, after Caesar's murder, he was, with Mark Antony and Octavian, one of the three who ruled the Roman World between them His share was France and Spain, and later, Africa, but he quarrelled with Octavian and all his power was taken from him He died 13 BC

Leprechaun In Irish folklore a small oreature resembling an old man He is usually harmful, but is beneficent to human beings who can withstand his trickery He is credited with the power of discovering buried treasure

Leprosy Chronic transmissible disease (discovered in 1871) and was a terrible scourge in antiquity In the Mosaic law there are many regulations about it, and in the Middle Ages in Europe and Asia the sufferers were serregated regulations about it, and in the hiddle Ages in Europe and Asia the sufferers were segregated in leper houses, compelled to wear warning bells, and special windows were provided for them in churches After the 15th century the disease gradually disappeared from Europe It is still a scourge in Africa, Asia and the Pacific Islands and there are leper hospitals and asylums in India Caylon South Africa and asylums in India, Ceylon, South Africa and the Philippine Islands It is estimated that there are over 2,000,000 lepers in the world There are two forms of leprosy The nodular form shows itself in an irregular thickening of the

skin and in the formation of nodes, or tubercles, which may develop into ulcers. In its nervous or annesthetic form whitened patches appear on the skin, there is a deadening of sensation, the sufferer losing all sense of pain, heat, cold and touch and perhaps the extremities of the

limbs fall away

Many remedies have been tried for leprosy. including meroury, salvarsan and other drugs, as well as serum and vaccines, but the best results have been obtained by the injection

of challmoogra oil

Lerwick Chief town and seaport of the
Shetland Islands It is on the island of Mainland on Bressay Sound, with a good harbour for its fishing industry Fort Charlotte is used by the Naval Reserve A festival is held in the town every January

Lesbos Greek island Lving near the coast of Turkey, N E of Smyrna, it is mountainous with fertile soil, olives, grain, fruit, etc., being produced Sappho Alcaeus, Theophrastus and other famous writers lived here The modern name and that of the chief town is writing. Area 618 ag. m. Pop. 161.557 town is Mytilene Area 618 sq m Pop 161,557

the green," in a ballad by James I The green was at one time used for bull baiting and the bull stone is still seen Linen and papermaking are the main industries Leslie House is the seat of the Earl of Rothes Pop (1931) 2477.

Leslie David Scottish soldier A son estates in Fife and was made Lord Lindores, he was born in 1601 and gained experience of war in the Swedish army He took part in the Battle of Marston Moor in 1644 and defeated Montrose at Philiphaugh in 1645. When the Scots took up the cause of Charles II he commanded the army that was beaten by Cromwell at Dunbar in 1650 From 1651 to 1660 he was a prisoner in the Tower of London. In 1661 Leslie was made Lord Newark, a title held by his descendants until Newark, a title held by 1790 He died in 1682

Leslie Shane Irish writer Born in 1885, he was educated at Eton and King's College, Cambridge, served in the Great War and soon began to write His output, both in prose and verse, is considerable and includes The Life of Cardinal Manning, Life of Sir Mark Syles, The End of a Chapter, an auto-biography, Mrs Fitcherbert, a play, and the novels, The Oppidan, The Anglo-Catholic and The Cantab In 1932 he published Studies in Sylbine Englisher. Sublime Failure.

Lesnes Name of an abbey at Plumstead, Augustinian house in 1178 and lasted until the Reformation. The ruins and grounds are

public property

Lesseps Ferdinand de French engineer

Lesseps Born at Versailles, Nov 19,
1805, he joined the consular service in 1825 and secured an appointment at Alexandria. He was afterwards in Spain as French ambassador In Egypt, de Lesseps had seen the possibilities of a canal across the Isthmus of Suez and after 1849 he devoted his life to making it. He obtained the concession, formed the company and supervised the work until the opening of the canal in 1869 Afterwards he undertook to cut a canal across the Isthmus of Panama, but this was less successful Lesseps was ruined and discredited by mismanagement associated with the scheme, was tried and sentenced to imprisonment but never served the sentence Ho died Dec. 7, 1894 A cousin of the Empress Eugénie, he was made a viscount by Napoleon III

Lessing Gotthold Enhraim German author and critic Born in Saxony, Jan 22, 1729, the son of a Lutheran clergyman, he was educated at the Universities clergyman, he was educated at the Universities of Leipzig and Wittenberg. He wrote critical articles for the periodicals, and spent time in travel and in making friends with the thinkers of the age. In 1767 he was appointed playwright to the theatre at Hamburg and in 1770

Librarian to the Duke of Brunswick He died at Brunswick, Feb 15, 1781

Lessing was a constructive thinker and his ideas on art and literature had great influence on Goethe and others His greatest works are perhaps Lackoon, in which he gives his ideas on poetry and the plastic arts, and Nathan the Wise, a drama that is a fine plea for religious toleration His other works include Miss Sara Sampson, a tragedy, and Minna von Barnhelm, the first German comedy He also wrote, to give them their English titles, The Found Scholar, How the Ancients Depucted Death and The Education of the Human Race. His ideas Leslie Burgh of Fifeshire, on the Leven, Scholar, How the Ancients Depicted Death and Rly. The parish church may be the "kirk on on the drame are in his Hamburg Dramaturys.

Letchworth Urban district of Hert fordshire, 34 m from from London, just outside Hitchin, on the LNE Rly Around the Jacobean manor house the first English garden city was laid out in 1903 There are printing works and other industries Pop (1931) 14,454

ethal Chamber Torm applied device for lling small animals painlessly It consists killing small animals painlessly of an air tight chamber in which the animal is placed, a mixture of carbonic acid gas and chloroform vapour being introduced under pressure, causing death within a few seconds

Lethbridge City of S Alberta It is m from Winnipeg and 130 m S of Calgary on both the CP and CN Rlys. The industries both the CP and CN Rlys The industrice are chiefly concerned with railway work, coal mining and the distribution of goods over an extensive farming area Pop (1931) 13 489

Lethe In Greek legend a river of the underworld Its waters were supposed to induce utter forgetfulness, so that when the dead drank of them they lost all memory of their past lives

eto In Greek legend the mother of the twins Apollo and Artemis Jupiter became her lover and so Hera, in her jealousy, sent the serpent Pytho to chase her through the world Poseidon made a refuge for her by putting a peg through the floating island of Delos The Romans called her Latona

Letterkenny Market town of Donegal Irish Free State It is on the Swilly, not far from Lough Swilly, on which it has a small port, Ballyraine The chief building is the cathedral of the Roman Catholic Diocese of Raphoe Pop 2200

etter of Credit Document enabling a traveller to obtain money in foreign countries. The letters are issued by a banker at home to a banker abroad who is asked to pay a certain sum to the per son named in the note

Letter of Marque Document gly the owner of a ship in time of war to attack merchantmen belonging to an enemy nation The letters were issued by the naval authorities and the ships that received them, called priva teers were recognised in international law

Letters Patent lege given by the sovereign in a document stamped with the Great Scal It gives to a person or company the exclusive right of an invention Pecrages are also bestowed by letters patent See PEERAGE

Lettres de Cachet (or lettres Blank orders of arrest issued by French Lings, prior to the Revolution to the governors of prisons By this practice abolished in 1789, it was only necessary to insert the name of an individual in such an order to effect his immediate incar ceration

Letts People of Indo European stock inhabited Courland and Livonla when these districts were part of Russia and are now the dominant people in the Republic of Latvia. They number about 2,000,000, chiefly Protestants, and there are colonies of them in the United States See LATVIA

into England from Flanders in the 16th century The two chief varieties are the cos lettuce, which has an creet, colong head and is generally orisp, and the cabbage lettuce which has longer leaves and is less compact in appearance

In 1931 a duty was placed on lettuces imported into Great Britain

Leu Unit of currency in Rumania At value is now id It is divided into 100 bani and the plural is lel

eucite Rock forming mineral It con sists of a silicate of potassium and aluminium and is found chiefly in lavas in the vicinity of Vesuvius, Capo di Bove near Rome and in the basaltic rock of the Lifel It occurs as crystals of white or grey colour, having anomalous optical properties, which vary according to the temperature

Leuctra Ym Village of Greece Here, in 371 BC the Thebans led by the Thebans Epaminondas, defeated the Spartans, and ended the Spartan dominance in Greece

Leuthen Village of Silesia 10 m from Dresden In the battle fought here, Dec 5, 1757 Frederick the Great utterly defeated an Austrian army, prisoners, and regained Silesia took 12,000

ev Unit of currency of Bulgaria, worth nominally a franc, but really 1 of a cony It contains 100 stotinki The plural penny is leva

Levant Name used for the E part of the Mediterranean Sea 10, the coastal regions of Asia Minor and Egypt A person of Frankish race born in this area is known as a Levantine A wind blowing from E Spain is a Levanter

The Levant Company was an English trading company that existed from 1592 to 1825 was given by charter a monopoly of the trade with Constantinople and the neighbourhood For a time it flourished but later its trade was interfered with by pirates

evee Name given to the natural mud wall or embankment on the lower Mississippi It is formed during floods when the river overflows and spreads over a level plain, depositing its sediment against the banks These levees are strengthened artificially, but are often breached during excessive floods

Similar levees are formed on swift, muddy rivers, like the Hoang Ho in China Levee Reception held by a king for men only, in modern times in order that persons who have received official positions, or honours, may be presented to the king the levees are held in the kings name by the Governors General in India and the Dominions The name is due to the fact that at one time the French kings received visitors during the process of rising from bed.

Level Instrument used in surveying for determining the amount of variation from the true level of a surface. It consists of a spirit level attached to a telescope The spirit level is a cylindrical glass tube so filled with alcohol or water as to allow of the retention of a small air bubble The complete instrument is mounted on a stand and regulated by a pivot and screws

Political party that arose in England during the Civil Levellers War Its members were chiefly soldiers in the army of Oliver Cromwell Their leader was Lettuce Hardy annual herb Cultivated John Lilburne and their democratic ideas were as a vegetable, it was introduced et out in The Agreement of the People. In 1649, after the king's death, they mutinied, but the rising was quickly suppressed, and by 1660 they had disappeared

Lever Charles. Irish writer Born in Dublin, Aug 31, 1806, he was educated at Trinity College there and became

Leven Loch or lake of Kinross shire. It is 22 m from Edinburgh and covers nearly 6 sq m On Castle Island, connected with the mainland by a causeway, the kings of Scotland had a palace, where Mary, Queen of Scots, was imprisoned in 1567-68. The lake was formerly much larger than it is to day. It is noted for a special kind of trout. of trout.

Another Loch Leven is a sea loch between the counties of Argyll and Inverness It is 12 m long and is a branch of Loch Linnhe

Leven Britain One flows through some lochs between the counties of Argyll and Inverness to Loch Leven It is 16 m long and its waters are used for generating electric power at Kinlochleven Another flows from Loch Lonnand through Dumbartonshire to the Clyde It is 7 m long and forms the Vale of Leven, which is famous for its bleaching and dyeing yards A third Leven flows from Loch Leven in Kinross shire to Largo Bay It is 16 m long and is partly an artificial waterway Name of several rivers in Great Leven 16 m long and is partly an artificial waterway In England there are short rivers of this name in Lancashire and Yorkshire One flows from Lake Windermere to Morecambe Bay

Leven Burgh and watering place of Fifeshire, on the Firth of Forth, 11 m from Kirkcaldy, on the LNE Rly Leven has some manufactures, while it is becoming increasingly popular as a golfing centre Pop (1931) 7411

Leven Earl of. Scottish title held with the earldom of Melville by the Fireshire Leven earloom of Melville by the Fifeshire family of Leslic-Melville Alexander Leslie, a soldier, born about 1580 Served in the Netherlands Later he entered the Swedish Army and after the Thirty Years' War was made a field marshal In 1638 he commanded the army raised by the Scots to fight Charles I He won some successes and in 1641 was made Earl of Leven Later he fought at Marston Moor He died April 4, 1661

Leven's title passed to his son and then to two daughters, and in 1682 it was given to David Melville, a great-grandson. In 1707

two daugnters, and in 1902 it was given to David Melville, a great-grandson. In 1707 he became Earl of Melville and since then the two carldoms have been united The earl's eldest son is called Lord Balgonie, this being the name of his seat in Fifeshire

Levens Hall Residence in Westmor-Milnthorpe and is one of the finest Tudor houses in the country Built by Sir James Bellingham it is noted for its exquisite panelling

Lever District in Lancashire Little outside Bolton It is a cotton manufacturing and coal mining centre Pop (1931) 4944 Great Lever is an adjoining area, but is not an urban district.

an urban district.

Lever Simple mechanical power It consists of an inflexible bar supported at one point (fulcrum) with a weight or resistance at a second point Power is applied at a third point to overcome the resistance, thus tending to cause the bar to rotate in opposite directions. There are three classes of levers in the first the fulcrum is between the weight and nower in the second the the weight and power, in the second the weight lies between the other two, while in the third the power is between the weight and fulcrum.

a doctor He spent some time in Canada, after which he practised medicine in several Irish towns and then in Brussels and other places abroad In 1858 he was made vice-consul at Spezia and in 1867 consul at Trieste His Spezia and in 1867 consul at Trieste His serial, Harry Lorrequer, in the magazine of his university proved very successful and other novels followed, including Charles O'Malley, Jack Hunlon, Tom Burke of Ours, Roland Cashel and Sir Brook Fosbrooke These are stories of social and military life in Ireland early in the 19th century He also wrote, in another vein, The Martins of Cro-Martin and The Daltons Lever died at Trieste, June 1, 1872

Lever used at Trieste, June 1, 1872

Leverhulme Viscount English title borne by the family of Lever William Hesketh Lever was born in Bolton, Sept 19, 1851, his father, James Lever, being a grocer there He was educated at elementary schools and entered his father's business as a commercial traveller In 1886 he began to manufacture soap at Wigan, and, aided by effective advertising, he made his he began to manufacture soap at Wigan, and, aided by effective advertising, he made his Sunlight brand known all over the world On the Mersey, a model town, Port Sunlight, was built, and the firm of Lever Bros became the largest of its kind in the world Many other concerns were amalgamated with it and before its founder died the combine had a capital of nearly £50,000,000 In 1929 there and before its founder died the combine had a capital of nearly £50,000,000 In 1929 there was a further big amalgamation with the Margarine Union and the firm of Unilever, Ltd., came into existence A new building, Unilever House, Blackfriars, London, was opened in July, 1932, as the headquarters.

Lever had many and varied interests outside his business He was a Nonconformist but also a discriminating patron of the theatre As a Liberal he sat in Parliament for the Wirral Division, 1906-10 As a social reformer he advocated a short working day and introduced a system of profit sharing To foster the native industries of the Scottish Highlands he bought, in 1918, the island of Lewis, but this was less successful than his other ventures. His interests in Africa were extensive and there. too, he showed practical philanthropy In 1911 Lever was made a baronet, in 1917 a baron and in 1922 a viscount He died May 7, 1925, when his only son, William Hulme Lever, became the 2nd viscount.

Leverrier Urbain Jean Joseph. French astronomer Born in Normandy, March 11, 1811, he was educated in Paris He became a Professor of Astronomy and by his scientific writings became known and by his scientific writings became known and was elected to the Academy His great work was the discovery of the planet Uranus, an honour he shared with John C Adams He was made professor in the University of Paris and from 1854-77 was director of the observatory there He died Sept 23, 1877.

Leveson-Gower Name of an English family represented by the Duke of Sutherland and Earl Granville Sir Thomas Gower, a landowner in Yorkshire, was made a baronet in 1620 His descendant, who had taken the additional name of Leveson and owned land in Staffordshire was made a baron in 1703. In 1746 name of Leveson and owned and in Stanora-shire, was made a baron in 1703 In 1746 John, the 2nd baron, was created Earl Gower and the 2nd earl was created Marquess of Stafford in 1786 The 2nd Marquess of Staf-ford married the Countess of Sutherland, a great heiress, and was made Duke of Sutherland.

Levi Biblical character, the third son of the ancestor of the tribe of the same name Lovi is also an alternative name for S Matthew

Leviathan old Testament word denoting an aquatic monster, actual or emblematic in Job xii it is a crocodile, in Isalah xxvii a mythic serpent and in Psalm civ a generalised sea monster Hence,

Anything immonse eg, the authority of the sovereign in Hobbes's Leviathan, 1651

Leviathan is the name of a liner built at Hamburg in 1914 for the Hamburg Amerika line and named the Valerland At the outbreak of the Great War it was detained at New York with 1912 these responds the Langlan and until 1917, then renamed the Levialhan and used as a transport for American troops

Levis Town and river port of Quebec, opposite Quebec City It is on the CNR and Quebec Central Rlys and steam ferries cross the river There are docks for shipping, and some manufacturing industries. (1931) 11,724

Levitation phenomenon of raising heavy bodies in the air so that they remain sus pended without mechanical means. The idea The idea is referred to in many ancient writings The Nooplatonist, Iambliohus, was said to have been levitated ten cubits from the ground during meditation In modern times levitation has been claimed by spiritualistic mediums, such as Daniel Home

One of the twelve tribes of \_evites Israel members Ita male were set aside to assist the priests in the service of the temple Unlike the other tribes, no definite piece of territory was allotted to them when the Promised Land was divided In stead, they were given 48 cities and were maintained by tithes and alms from the others In the wilderness they carried the tabernacle

In the wilderness they carried the tabernacle and later they acted as singers in the temple and propared the sacrifices

Leviticus Book of the Old Testament. It comprises the legal and ceremonial institutions regulating the sane tuary service of the Israelites administered by the tribe of Levi It is divided into the laws of sacrifice (Ch i vii), priestly consocration (Ch viii) x), purification (Ch xi x), the day of atonement (Ch xvi), holiness (Ch xvii xxvi) and vows and tithes (Ch xxvii)

Levy Raising something, either money or men, usually by force in time of emergency A levee en masse is a term used for calling out the fit male inhabitants of a country to resist an invader, or meet some other emergency See Capital Levy

other emergency See CAPITAL LEVY

Lewes Borough, market town and county town of Sussex, on the Ouse, 60 m from London, on the S Rly The extensive remains of the Norman castle have belonged to the nation since 1920 Lewes is an agricultural centre and has a racecourse In the suburb of Southover are some fine old houses, including one that belonged to Anne of Cleves, and the rulned priory of St. Pancras From 1295 to 1885 Lewes was separately represented in Parliament and in the Middle Ages it was a centre of the wool trade Pop (1931) 10,785

The first Earl Granville was a younger son of the first Marquess of Stafford victorious Later the scales were turned Henry III Biblical character, the third son of Henry III and Edward were made prisoners and Lowes was occupied

Lewes George Henry English writer Born in London, April 18, 1817, be abandoned medicine for literature His first hand knowledge of the literature and philosophy of Germany was reflected in his writings In 1863 Lewes founded The Fortnightly Review, which he edited for 15 years, and his best known book is his Life of Goethe For over 20 years Lewes lived with George Ellot, and her work was much influenced by his advice and criticism Ho died Nov 28, 1878 He is pictured in J E Buckrose's book, Silhouette of Mary Ann

Lewis Largest island of the Outer Heb is 60 m long, covers 860 sq m and is 30 m from the mainland. Stornoway is the chief town and port. The surface is chiefly peaty moorland with a number of sea lochs and some moorand with a number of sea focus and some hills in the S rise to a height of 1750 ft. The coast is rugged The industries are the growing of barley, oats and potatoes, the raising of sheep and cattle, fishing and weaving There are rolles of the Druids, and some stone circles at Callernish Much of the island was bought in 1918 19 by the first Lord Leverhulme but in 1924 his estates were sold Pop 32,000

Sinclair American novelist He \_ewis was born in Minnesota, Feb 1885, the son of a doctor, and was educated at 1885, the son of a doctor, and was educated at Yale He became a journalist and acted as editor for several publishers In 1914, with the publication of Our Mr Wren he became known as a novelist and his popularity reached Britain with Main Street, 1920, and Babbitt, 1924 Other novels are Free Air, Martin Arrowsmith, Elmer Gantry, The Man Who Knew Coolidge and Dodsworth It Can't Happen Here was published in 1935

ewis Gun Form of automatic gun principle of the machine gun, and can be fired from the shoulder like a rifle or by the use of a mount. Its automatic action is caused by the pressure of the explosion of gases and the action of a powerful spring, giving a forward and backward movement.

Lewisham Borough of the County of the river, extending to the border of Kent, and covers about 11 sq m., with several stations on the S Rly It includes Catford Lee, Forest Hill, Bellingham, Hither Green and parts of Blackheath, Downham, Brockley and Sydenham The town hall was enlarged in 1931 and the SE Polyterhnic opened in the same year Some of the land belongs to the Earl of Dartmouth, whose eldest son is called Viscount Lewisham Pop (1931) 219,942

Lexington Village of Massachusetts, on April 19, 1775, the first battle in the War of Independence took place A British force was sent from Boston to Concord to seize some stores It was attacked by colonists, but saved by the arrival of reinforcements

one that belonged to Anne of Cleves, and the ruined priory of St. Pancras From 1295 to 1885 Lewes was separately represented in Parliament and in the Middle Ages it was a centre of the wool trade Pop (1931) 10,785. The Battle of Lewes was fought on May 14, 1264 An army under Henry III and his agon, Edward, marched against the baronial forces under Simon de Montfort. They met

projecting from the inner coating The jar is entered Liao-Yang, but the victory was by earthed, and a current from an electrical machine is passed into the knob producing a negative charge on the outer foll. To discharge the jar the two foils are connected by the ends of a conductor

Leyland Market town and urban district of Lancashire, 5 m from Preston on the LMS Riv The chief industry is the manufacture of cotton Pop (1931) 10,573

Leys School Public school at Cam-bridge, founded in 1874, and controlled by Wesleyans The buildings are modern, with accommodation for 260 boys

Leyton County borough of Essex, 6 m from London, on the L N E. and L M S Rlys There are some industries, and a technical institute It was made a borough in 1926 The ground of the Essex Cricket Club is at Leyton Pop (1931) 128,317

Leytonstone District of the county borough of Leyton (q v) It adjoins Wanstead Flats and Epping Forest.

Lese Majesté Crime against the sovereign or the state It was defined in Rome as any action against the republic, such as assisting its enemies it also included illegal attempts to secure high office It is now equivalent to treason

Lhasa Capital of Tibet It stands on a plateau, 12,000 ft. above sea level, and 390 m from Darjeeling Access to it is by road only The sacred city of Lamaism, it is called the Forbidden City and until 1904 only one Englishman had visited it. The Potala is the palace of the Dalai Lama, and the centre of his faith Standing on a hill, with five gilded pavilions, it is one of the most wonderful buildings in the world The chief temple is the Johang, devoted to the worship of Buddha The streets are narrow and dirty of Buddha The streets are narrow and dirty and the houses mean in appearance Lhasa is much visited by pilgrims and round it is the Ling-kor or Pilgrims' Way There are native There are native le Pop 20,000

manufactures and some trade Pop 20,000 Near Lhasa are three great monasteries containing between them perhaps 20,000 inmates They are known as Debung, Sera and Gaden. The monks or lamas in the two first named take on active part in political life versity as well as a monastery Each is a uni-

Chinese weight It is a thousandth part of a Chinese ounce Li is also the name of a measure of length, equal to one-third of an English mile

Liana General name for long climbing and twining plants in tropical and subtropical forests Usually woody and rooted in the ground they attach themselves by aerial roots and tendrils to other vegetation, sometimes choking it, and forming festoons and monkey ropes, occasionally utilised for bridges

Liao-Tung Peninsula of Manchuria, ioining gulf It was ceded to Japan in 1895, but was soon returned to China In 1905 the southern part of the peninsula, leased to Russia, was transferred to Japan and since then has been ruled by that country It contains Port Arthur and Dairen, which is the capital Pop (1930) 1,328,011

Liao-Yang Town of Manchuria. It is populous trading centre Here, in Aug Sept, 1904, there was some fierce fighting between the Japanese and Russian armies in the end the Russians retreated and the Japanese In the end the Russians retreated and the Japanese

no means decisive

Series of strata forming the base of Lias the Jurassic System and occurring in England from Devon and Dorset across to Yorkshire The beds consist of blue clays, sands, shales and limestone, and are divided into Lower, Middle and Upper Lias The Cleveland ironstone of Yorkshire is a Liassic formation, and the Whitby beds yield jet.

Libau City and seaport of Latvia It is on the Baltic Sea, 150 m from Riga It has a good barbour and shipping is one of the main industries, there are some manufactures In the neighbourhood are sulphur springs Near is the Lake of Libau. Its Latvian name is Liepaja Pop 57,238

Libel Writing or otherwise issuing any thing that may damage a person's business or reputation in English law it is also a libel to publish anything of a blas-Writing or otherwise issuing any

also a libel to publish anything of a dissphemous, seditious or immoral nature

The law of libel chiefly concerns newspapers and periodicals, although libels are published in other ways. In England the chief law on the subject is the legislation passed in 1843. A person who is libelled, or thinks he is libelled, or thinks he is libelled, or thinks he is libelled. person who is libelled, or thinks he is libelled, can bring an action for demages. It is for the defence to prove that the statements made were true and were justified, but even then, if the plaintiff can prove that he has suffered loss by them, he may obtain damages at the discretion of the jury. If the characters of public persons are attacked, the offender can be prosecuted for a climinal libel. Statements made in both Houses of Parliaments and in the contraction of the property of of the prope

criminal libel Statements made in both Houses of Parliament and in the courts of law are, however, privileged See SLANDER

Liberal In politics one who is in favour of greater political liberty. As such the word has been taken by political parties, for example, the National Liberals in Germany

In England the Liberal party developed from the Whigs and took the name early in the 19th century In the 50 years that followed the Reform Bill of 1832 it was on the whole the dominant party in the country and was responsible for many social and political reforms. Its leaders were Ford Computed. reforms Its leaders were Earl Grey, Earl Lord Palmerston and above all, Russell, E Gladstone

In 1885 the party was divided over the In 1885 the party was divided over the question of Home Rule for Ireland and was out of office, except during 1892 95, until 1905. It then had a spell of office lasting 10 years and covering the early days of the Great War, while it had a share in the Coalitions which followed. When the war ended the Liberal party was weak and divided, but its work was largely done. largely done, many of the reforms on its programme had been carried out, while others such as the discstablishment of the Church of England, no longer aroused enthusiasm. In a measure its decay was hastened by the growth of the Labour party which, in 1922, supplanted

of the Labour party which, in 1922, supplanted it as the official opposition.

Only a few Liberals were returned to the House of Commons in succeeding elections, In 1931 there were 72, split into three groups, two of which, led respectively by Sir John Simon and Sir Herbert Samuel, were represented in the National Government formed by in the National Government formed by Ramsay MacDonald, while the third, under Mr Lloyd George, stood out on the issue of Free Trade

The Liberal Central Association, which is maintained by a number of Liberal associations which holds a conference every year

Liberal Unionist Political party the Unionist or Conservative one It was founded in 1885 when some members of the Identified in 1885 when some members of the Liberal party, who disapproved of Gladstone's plan to give Home Rule to Ireland, left him and founded an organisation of their own They were led by the Duke of Devonshire, then Marquess of Hartington and Joseph Chamberlain, and included John Bright Later the Liberal Unionist and Conservative Constructions in North Parket 1985. organisations in I'ngland were merged in one, but in Scotland the Liberal Unionists retain a separate association See CONSERVATIVE

Liberator One who liberates or frees the certain men who from time to time have distinguished themselves in leading their countrymen to freedom, such as Simon Bolivar, after he had taken Caracas from the Spaniards in 1813 It was also the title of a paper published in America from 1831 65 protesting against slavery and edited by W L Garrison

Liberator Name of a building society It was founded with allied companies by Jabez S Balfour in 1868, and for a time was a very prosperous undertaking but in 1892 the group falled with a liability of £8,000,000 Balfour was arrested and imprisoned There was a good deal of distress and a fund was raised for the victims The assets, one being the Hotel Cocil, were carefully husbanded, and during the 30 years that followed the collapse something was repaid to the depositors See Balfour J S

Liberia Republic of Africa It is on the west const between Sierra Leone and the French possessions on the Ivory coast It covers 43,000 sq m and has a coastline of 350 m Monrovia is the capital and the chief scaport The main products are whole and palm oil. Minerals are worked to rubber and palm oil Minerals are worked to a small extent The country has no railways, but there are motor roads

Liberia was formed to provide a home for eed slaves from America The Republic dates freed slaves from America from 1847 and is governed by a president and a council of ministers with a parliament of two English is the official language

houses English is the official language Liberia is a member of the League of Nations The inhabitants are nearly all negroes, and Protestants Pop 2,500,000

Liberty Sir Arthur Lasenby English born at Chesham, Aug 13, 1843, the son of a lace manufacturer In 1875 he opened a shop in London Liberty a pulgis propelled in artistic London, Liberty s, which specialised in artistic fabrics and gained a great reputation for the beauty and novelty of its wares Knighted in 1913, he died May 11, 1917 Knighted

Libra Weight and monetary unit. The Latin word denoted the steelyard, its fixed weight counterpoise, a standard copper 12 in bar of 12 ounces, a copper coin and a gold monetary unit It still designates a Spanish, Portuguese and S American weight, and a Peruvian gold coin Britain s pound is written lb for weight, £ for value

Libra Seventh zodlacal constellation, re presented by the Roman scale beam, indicating equal nights and days when the sun a cellptic crosses the equator at the autumnal equinox.

throughout the country, has offices at 21 Library Collection of books, also the Abingdon Street, London, SW Associated Library Common building which contains with it is the National Liberal Federation them A library may be a few hundred books in a private house or the 3,000,000 in the British Musoum

Most civilised countries have national libraries Notable examples are the British Museum in London and the Bibliothèque Nationale in Paris Scotland and Wales have national cach a national library, the Scottish one in cluding the Advocates' Library At Oxford At Oxford is the Bodleian and at Cambridge the University library These libraries are entitled to a copy of every book published in the country

Some libraries are famous for the quality rather than the quantity of their books. One such is the John Rylands Library in Manchester which includes the collection bought from Earl Spencer at Althorpe There are valuable collections of books and manuscripts in some cathedral and college libraries and in some of the great houses. The legal medical and other societies have libraries but each of these is

mainly confined to its own subject
One of the most valuable libraries in the
world is in the Vatican, others are in Rome and

other continental cities

The treasures of these libraries are mainly reserved for students, but for the general public there are lending libraries, usually controlled by a city or town council and often supported from the rates Many were erected with monoy provided by Andrew Carnegie, whose money has been used to provide village libraries in various parts of the country Other londing libraries, called circulating libraries, are privately collected, and those who use them pay a subscription for the privilege In 1932 the Carnegie Trust decided to contribute towards a new building in London for the Central Library for students

In most cities and towns there is also a reference library where books can be con sulted, but not taken away Manchester has a very good one and in 1932 one was opened in Norwich The library of the Patent Office in London belongs to this class

Special libraries include libraries for the blind Each government department has a library and they are found in some business houses In 1928 29 £1,909 607 from the rates was spent on libraries in England and Wales, and in 1927 28 £208,100 in Scotland

LIBRARIANSHIP AS A CAREER -This offers a congenial occupation to many men and women, and is well paid in its higher branches Junior assistants begin at £60 £80 a year, but a senior assistant should receive about £300, and the chief librarian of a public library system anything up to £1000—though about £400 £500 is the average salary

The recognised professional qualifications are Fellowship and Associateship of the Library Association which are granted upon passing the requisite examinations. Those employed in libraries usually take the Correspondence Courses conducted by the Library Association (25 27 Bedford Square, London, W C 1) Another method is to attend the School of Librarianship at the University of London (Gower Stroet, W C 1) where a two years course leads to a Diploma which is accepted as a qualification for hellowible. Graduates can a qualification for Fellowship Graduates can complete this course in one year Lectures are also given in the evenings for the convenience of those engaged during the day Courses and Summer Schools are held in connection with other universities

Libya Italian possession in Africa The word, sometimes spelt Lybia, was used by the Greeks for the whole continent, but it is now confined to a district in the north This lies along the north coast from Egypt to Tunis, and is divided into the two

Egypt to Tunis, and is divided into the two districts of Tripolitania and Cyrenaica.

Libya became a Turkish possession in the 16th century and so it remained until 1911 In that year Italy invaded and annexed it, this annexation being recognised by the Treaty of Ouchy, signed in Oct 1912 In 1928 the area of the country was greatly extended by the inclusion therein of various cases. It has a coastling of short 1100 m and covers alterethe a coastline of about 1100 m and covers altogether over 800,000 sq m

The Libyan desert is the name of the part of the Sahara between Egypt, the Sudan and Tripoli It has many oases See Tripoli

Licence Permission by the state to enjoy a certain privilege To-day it is the usual way by which the state controls trades and privileges, and is also a source of revenue The word has a special connection with the sale of intoxicating liquors, which must be only by licence Public houses are known as licensed premises and the proprietor is a licensed victualler The sale of drink is sometimes called the licensing trade

Licences are necessary to enable one to keep a dog, drive a motor-car, sell tobacco, possess a wireless receiving set, act as a moneylender, auctioneer or pawnbroker and use a gun Others who need licences are dealers in patent medicines, keepers of men servants, users of armorial bearings and hawkers. Owners of motor-cars and private carriages must take out a licence. The issuing of licences, except marriage licences (see Marriage), is controlled by the Board of Customs and Excise Most of them can be obtained through a post office and the work of seeing that they are taken out falls to the police Licences for the sale of intoxicating liquors are granted by the magistrates See Liquor Control.

Lichen Compound plant organism consisting of two symbiotic partners, a fungus and an alga The fungal element belongs, in nearly every instance, to the Ascomycete group and is usually responsible for the external form of the lichen The green algal cells become enveloped in the felted mass of fungal threads, the two plants mutually benefiting by their association Lichens form incrustations, follaceous, or branching masses on rocks, tree trunks, etc., examples being the Beard Moss and Iceland Moss.

Lichen Form of skin disease commonly known as "dry itch" It consists of an eruption of a cluster of small red pimples on an inflamed area, becoming later a group of dry scaly points accompanied by severe itching and a burning sensation. It occurs usually in persons of nervous or sanguine temperament and may be induced by irritants from certain occupations

Lichfield City, borough and market town of Staffordshire It is 117 m from London, on the L M S Rly It is a centre for the sale of agricultural produce and has breweries and other industries. The city has one of the most beautiful cathedrals in England, also associations with Lohness. England, also associations with Johnson S John's Hospital dates from 1495 The Three Crowns is an old inn The war memorial is a garden of remembrance The house in which Johnson was born is now a museum for his relies and there is a status of him relics and there is a statue of him.

A bishopric was founded at Lichfield about 670 and from 786 to 803 its holder was an archbishop At one time the city had a castle and until 1885 it sent members to Parliament Pop (1931) 8,508

The title of Earl of Lichfield has been held

The title of Earl of Lichfield has been held by the family of Anson since 1831 The earl's seat is Shugborough Hall, Stafford, and his eldest son is called Viscount Anson.

Lichnowsky Karl Marx German prince and diplomat.

Born March 8, 1860, he entered the German Foreign Office in 1884, retiring in 1904 In 1912 he was appointed ambassador to Great Britain, and later was much criticised for his failure to preserve diplomatic relations between Great Britain and Germany in 1914 In 1917 he was exiled on the unauthorised publication of his Meine Londoner Mission. a criticism of

he was exiled on the unauthorised publication of his Meine Londoner Mission, a criticism of German policy in the Sarajevo incident of 1914 He died Feb 27, 1928

Licinius Roman emperor. He was a peasant who became a soldier and attracted the notice of the Emperor Galerius, who put him in charge of a part of his empire In 313 he became sole ruler of the empire, the remainder the eastern part of the empire, the remainder being under Constantine the Great. Rivalry arose and in 324 war broke out between them

arose and in 324 war broke out between them Victory fell to Constantine, and Licinius was made a prisoner and later put to death

Lick Observatory in California. It is on Mt. Hamilton, near the coast of the Pacific, and is controlled by the University of California In order to secure the least possible amount of interference it is surrounded by a belt of untouched land. The observatory possesses powerful telescopes and ranks as one of the greatest in the world. It was founded by James Lick of San Francisco and was opened in 1885

Lickey Hills Low range of hills in Worcestershire They lie between Birmingham and Droitwich and about 500 acres belong to the city of Birmingham.

Lictor Official in ancient Rome One or more lictors walked in front of the more important magistrates They carried a bundle of rods, called fasces, and an axe, as symbols of the magistrates' power.

Liddell Henry George. English scholar Born Feb 6, 1811, the son of a clergyman, he became tutor and lecturer at Christ Church, and in 1846 was appointed headmaster of Westminster School In 1855 he returned to Oxford as Dean of Christ he returned to Oxford as Dean of Christ Church and there he stayed until his death, Jan. 18, 1898 One of his daugnters was the original of Alice in Wonderland

Liddell was a prominent figure in Oxford and his name is perpetuated by the great Greek Lexicon prepared by himself and Robert Scott This appeared first in 1843 and the latest of several new editions in 1930

Liddesdale District of Scotland It is the valley of the Liddel Water, a tributary of the Esk There are border towers in the dale, including Hermitage Castle, and the scenery is most picturesque The Armstrongs and the Elliotte terrous border families.

Elliotts, famous border families, lived here

Liddon Henry Parry. English preacher Born at North Stoneham in Hampshire, Aug 20, 1829, he was ordained in the Church of England, became Vice-Principal of the Theological College at Cuddesdon and in 1859 Vice-Principal of S Edmund Hall, Oxford For the next eleven years he was one of the leading figures in Oxford, exercising by his sermons and lectures great influence over the undergraduates In 1870 he was appointed Canon of S Paul's, a position he held until his death at Weston super Mare, Sopt. 9, 1890

Liddon was prominent as a follower of Pusey and a leader of the High Church movement, but he is best known as a gifted prencher His Lenten sermons in London, long though they were, were attended by vast crowds

Lido Island and pleasure resort of Italy It is 8 m long and is one of the islands that separate the lagoon on which Venice stands from the sea. In the 20th century it became a fashionable resort for English people The social centre of the English people The social centre of the island is Santa Elisabetta. At the north of the island is a fortress

\_1ebig Justus German chemist. He was born at Darmstadt, May 12 1803, and was educated at Bonn, Erlangen and Paris When only 21 years old he was appointed Professor of Chemistry at Glessen In 1845 he was made a baron, and in 1852 he moved to Munich where he was Professor of Chemistry until his death, April 18, 1873 Perhaps the leading chemist of his day,

Liebig discovered various chemical substances notably chloral and chloroform, and wrote He also improved the much on chemistry apparatus of the chemist and showed how the soil could be made more productive by the use of fertilisers. He invented the extract of

meat which is called after him

Liechtenstein Small principality of Europe It is on the east side of the Rhine, between Austria and Switzerland, not far from Lake Constance
It covers 65 sq m Vaduz is the capital
Agriculture, notably cattle rearing, is the chief
occupation of the people The land is governed by a prince and a diet of 15 members Before the Great War it was closely associated with Austria, but now its coinage is Swiss and Switzerland controls its customs, posts and telegraphs The principality was formed in 1719 and from 1815 to 1866 was part of the German Confederation. Pop (1930) 10,213

City of Belgium It is on the Brussels The Liege City of Belgium It is on the buildings include the cathedral, the palais de justice and the museum There is a university and a broadcast the ten cord retail industry. is a centre of the iron and steel industry, others include the making of motor cars and various engineering products On Aug 5, 1914, the German attacked Liege The last forts fell on the 16th and the city remained in German hands until Nov, 1918 Pop (1931) 165 657

Lien Word used in English law It des cribes the right a creditor has to retain property until his debt is paid Thus, if a man has an overdraft, the bank can take a lien on some shares which he possesses An innkeeper has a lien on the goods of his guest until the bill is paid, and a carrier on the goods which he carries

neutenant Literally, one who takes the British navy a lieutenant is between a sub lieutenant, or mate, and lieutenant-commander in the army he is between a second lieutenant and captain in the air force a flight lieutenant is between a flying officer or observer, and a squadron leader In the army the lieutenant wears a badge of two stars on his sleeve in the navy he wears two stripes and a curl of gold braid.

Lieutenant-Colonel Rank in the British army, between colonel and major A lieutenant colonel commands a battalion of infantry, a regiment of cavalry or a brigade of artillery The badge of rank is a crown and star

Lieutenant-Commander Rank in the British navy He ranks between commander and lieutenant The badge of rank consists of three stripes and a curl equivalent rank in the army is a major and in the air force squadron leader. There are lieutenant-commanders in the various branches of naval work-engineer paymaster etc

Lieutenant-General British army He ranks below a general and above a major general, and his usual command is an army corps. The badge of his rank is a crown with a sword and baton crossed beneath it.

Life State of activity peculiar to animals and plants in which an organism act upon its environment which in turn reacts upon it The physical basis of life is proto plasm, a complex mixture of compounds of carbon, hydrogen oxygen and nitrogen, with usually some sulphur and phosphorus

These compounds consist of proteins, fats, carbohydrates, mineral salts and about 75 per cent, of water Protoplasm is an unstable structure as it is subject to constant physical and chemical changes (metabolism) by which the organism grows These metabolic processes comprise those that build up (anabolism) and those that break down the protoplasm (kata The living activities are expressed in bolism) movement, nutrition, growth, sensation and reproduction, and in all these activities a supply of energy is required, set free, in most cases, by oxidation of the protoplasm, the intake and use of oxygen being known as respiration. In the death of an organism, its unity is lost, and the protoplasm breaks up to form new compounds

ifeboat Special type of boat designed for saying life at sea. They are designed for stability and buoyancy, and have special valves for discharging the excessive inflow of water They are operated from the shore or carried on ships and some have collapsible sides. Shore lifeboats are built of wood usually with a double skin of mahogany, and are propelled by oars and sails although many motor driven lifeboats are now in use

The boats are maintained by the Royal National Lifeboat Institution at 42 Grosvenor Gardens, London, SW1 It maintains over 100 lifeboats, and has been responsible for saving over 62,000 lives Its income amounted in 1931 to £264.039

ife Guards Regiment of the British Part of the household cavalry it dates from the time of Charles II and still forms the sovereign a escort on important occasions For long there were oth important occasions for long there were two regiments of Life Guards, but after the Great War they were amalgamated The Life Guards have a fine record of service which includes some hard fighting during the Great War The regiment ranks as the senior one in the army

iffey River of Ireland, 50 m long, it rises in the mountains of Wickley and flows through counties Kildare and Dublin to the sea. The city of Dublin stands on it.

Lifford County town of Donegal, Irish
Free State It is on the Foyle,

opposite Strabane, 15 m from Londonderry

Pop 400
The title of Viscount Lifford has been borne by the family of Hewitt since 1781 The first viscount was Sir James Hewitt, Lord Chan-cellor of Ireland

In anatomy the membrane Ligament in anatomy the membrane bones Especially in the knee, the ligament is very susceptible to strain See KNRE JOINT

Term applied to a thread of Ligature Term applied to a three silk, catgut or other material used for tying up blood-vessels in surgical operations Ligatures are made in different thicknesses and are sterilised usually with carbolic acid

In musical notation, a ligature is a tie or line binding together a group of notes requiring are of different pitch, intended to be sung with one breath or played as a continuous phrase

Light Form of energy having the properties of vibration or wave motion and traversing space. It causes the sensation of sight by its action upon the eye. The speed at which light travels is about 186,000 m per second, so that the light of the sun takes nearly 81 minutes to reach the earth.

Newton first showed that a beam of sunlight, when transmitted through a prigm is broken.

Newton irst snowed that a beam of sunlight, when transmitted through a prism, is broken up into a coloured band or spectrum, the colours being red, orango, yellow, green, blue, indigo and violet. It is now known that beyond the red end of the spectrum are invisible heat or infra-red rays, and similarly beyond the violet end, other invisible ultraviolet rays, having a chemical or actinic action. violet rays, having a chemical or actinic action The differences in wave length of the rays are associated with the differences in colour, and in the visible spectrum the longest wave lengths are at the red end, while the shortest are at the violet end Light, heat and wireless waves are electro-magnetic vibrations of the same form, but differing widely in wave length For measuring the distance of the stars from

the earth and for other measurements of the universe, a light year is taken as the unit. This is the distance travelled by light in a year and is calculated at 6 million million miles (6,000,000,000,000). See RELATIVITY

Light Brigade Brigade of light particularly to the brigade of light cavalry that charged at Balaclava in 1854 Sec BALACLAVÁ

Lighter Large open flat-bottomed boat used in loading and unloading ships in port, and for carrying goods for short distances They are generally towed but in some cases are steam propelled, and are used instead of barges on English inland waters.

The men in charge of lighters are known as lightermen On the Thames they require a licence, which can be obtained from the Watermen's and Lightermen's Company, a very old organisation

known as an authority on the New Testament. which he helped to revise

Lighthouse Building provided with powerful illumination to guide navigation of ships in dangerous waters guide navigation of snips in dangerous waters Lighthouses are built either on the coast or on a rock, and usually take the form of a tower surmounted by a "Lantern" The Eddystone lighthouse is a well-known example Badystone lighthouse is a well-known example built on an isolated rock, while the Inchcape Rock lighthouse is built on a reef in the Firth of Tay Usually the illuminant is a mixture of petroleum vapour and air burnt in a form of incandescent mantle, the beam of light being intensified by lenses and mirrors

In England the maintenance of lighthouses is the business of Trinity House, which obtains an income by levying light dues on shipping. For Scotland there are the Commissioners of Northern Lighthouses in Edinburgh and the Clyde Lighthouses Trust in Glasgow Other countries have similar organisations

Lighting For purposes of illumination oil lamps were an early device In some olive oil was used with a floating wick, in others the wick was confined in a nozzle Candles of various kinds have been, and still are, used for illumination, the carliest form being the rushlight, where the wick consisted of a peeled rush stem

With the invention of the Argand burner in 1783 and the introduction of petroleum

1783 and the introduction of petroleum, greater efficiency in lamps was obtained. From the beginning of the 19th century coal gas became more and more used as an illuminant, the invention of the Welsbach incanminant, the invention of the Weisbach incan-descent mantle in 1886 giving a marked increase in lighting power A further advance came with the use of electric are lamps and the introduction of the incandescent electric bulb by Edison and Swan in 1879 and 1880 See ELECTRICITY, GAS

Lightning Flash due to an electrical discharge between two clouds or between the clouds and the earth Lightning may originate either from a positive charge within the cloud and pass downward in a branching path, or it may originate as a positive charge in the earth and branch upward to the cloud Sheet lightning is a reflection of a distant discharge or of lightning below the horizon. Ball lightning is a slower moving globular form which explodes violently moving globular form which explodes violently in contact with an object.

Lightning Conductor Appliance attached to buildings for discharging gradually the electric current of lightning into the earth It consists usually of a copper terminal fixed on the highest part of the building and connected to solid copper tape fixed to the walls by copper staples or gun-metal holdfasts. The tape passes downwards to an earth plate The tape passes downwards to an earth plate of copper buried in charcoal in damp soil. Tall chimney shafts often have a band near the top bearing four terminal rods

Lightfoot Joseph Barber English theologian Born in Liverpool, April 13, 1828, he was educated at Trinity College. Cambridge, where he was senior classic, and fellow and tutor of Trinity College In 1851 he was appointed Hulscan Professor of Divinity and in 1875 Lady Margaret Professor of Divinity and in 1875 Lady Margaret Professor of St Paul's, London, and in 1879 Bishop of Durham He remained at Durham until his death, Dec 21 1889. Lightfoot was chiefly

Lignin Essential constituent of woody tissue Lignin, also known as ligno cellulose, is a complex organic compound permeating the cell walls and recognised by certain reactions.

Lignite Immature form of coal some-times known as brown coal, and frequently showing traces of the original wood structure. It is an important fuel in many European countries, especially Germany, where it occurs in beds of considerable thickness. It is also found in Australia. It contains over 45 per cent. of volatile matter, and is used as fuel in the form of briquettes.

Lignum Vitae Tropical American evergreen tree of the officinale). It is called Guaiacum order (G officinale) It is called "wood of life," because of its medicinal repute wood of rife, because of its medicinal repute The tough, unsplittable, greenish black heart-wood contains one fourth resin, used in chronic rheumatism and acute tonsilitis, turners employ it for pestics, pulley blocks and rulers. An E. Australian acada furnishes hardwood called hickory lignum vitae

Ligny Village of Belgium. It is famous because here, during the Waterloo campaign, Napoleon defeated the Prussian army on June 16, 1815 See WATERLOO

Name of a division of Italy in Liguria Name of a division of italy in the country adjacent to the French frontier it included Genoa The name is borne by a modern division of Italy, a range of the Alps and of the Apennines, and an arm of the Mediterranean. The republic of Genoa, when rearranged by Napoleon in 1797, was called the Ligurian republic It lasted until 1805

L1 Hung Chang Chinese politician, he came to the front as a soldier Later he turned to politics and had a considerable share in introducing western ideas into China 1875, the ruler being a child, he became practically head of the government and remained so until his death, Nov 7, 1901

Lilac Genus of hardy deciduous shrubs of the olive order, natives of SE Europe and temperate Asia (Syringa) They bear large pyramidal clustors of small flowers, usually fragrant, bluish purple, reddish or white The commonly cultivated S vulgars, 20 ft. high, was introduced into Tudor England The smaller Persian, Chinese and Rouen Illacs, 4 7 ft., are distinct or hybridised, S Josikaea, from Transylvania, is scentless

Lilith Female night monster who passed from Persian into Jewish folklore Mentioned in Is xxxiv, RV margin, the AV name is screech owl Rabbinical literature made her Adam's wife before Eve's creation, she became thereafter a nocturnal, wandering demon, especially dangerous to children and women in childbirth, and involving the wearing

of protective amulots
Lille City of France It is on the River
Deule, 165 m from Paris, and is
well served by railways and canals The buildings are mainly modern although on the Grande Place are the Grande Garde and the Bourse, both ancient. The city has a univer sity with fine buildings and a Pasteur Institute Lille is a great manufacturing centre, not only for iron and steel goods, but for textiles, which are produced in great quantities here It has a broadcasting station (265 4 M, 1 3 kW).

Owing to its position Lille has often been besieged and it has changed hands several to redness limestone or marble. It readily

times. It was strongly defended when the Great War broke out, but the forts were soon reduced by the German guns On Oct 12, 1914, the garrison surrendered and it remained in German hands until Oct., 1918 (1931) 201,568

Lilliput Gean on which Gulliver was wrocked, in Swift's Gullver's Travels, 1726
Its inhabitants did not exceed his finger in height. Garrick personally trained children to act in a play of the name 1756 Hence any thing dwarfish is called lilliputian

Lillywhite Frederic William English cricketer Born in Sussex, June 13, 1792, he was a bricklayer who soon won a local reputation as a cricketer. This spread, chiefly owing to his success as a bowler, spread, chieffy owing to his success as a bowier, and he went to London where, in 1844, he was engaged by the MCC He remained a professional in the service of that club until his death, Aug 21, 1854

Lily Typical genus of herbs with scaly bulbs of the lily order (Lilium) Natives of N temperate regions the flowers comprise of N temperate regions the flowers comprise the property the pure services of the lily services the services t

six free perianth segments, the anthers being on slender filaments. Many garden forms are trumpet-shaped, sometimes with reflexed or rolled back segments. One of the oldest in cultivation is the Mediterranean white Madonna illy, the E Asian dark spotted, orange red, tiger illy is either single or double flowered, the Japanese yellow-banded white L auratum may be 6 10 in. across The S European purple martagon or turk's-cap and the Bermuda white Easter lily are other favourities Other genera contain the African, Guernsey, Lent, S Bernard's and water lilies See DAFFODIL.

Lily of the Valley (Convallaria ennial plant of the order Lilicaac The spikes of white bell like flowers spring on erect stems from oval green leaves and have a delicious fragrance

Lima Capital of Peru It is 7 m. from the its port Caliao and is a railway centre. It is laid out on modern lines and a feature is the large bull ring. There is a university. Lima has some manufactures and is the trading centre of the ropublic. It has large foreign elements in its population. Pop. (1928) 265,000

\_imasol Seaport of Cyprus It is on the south coast and the chief

Limburg South coast and the chief industry is exporting the produce of the island Pop (1931) 15,349

Limburg South-eastern province of Holland Pop (1931) 20,349

Limburg South-eastern province of Holland Research Population (1931) 566,916, capital Maestricht, and north eastern province of Belgium, area 930 sq m., pop 373,228, capital Hasselt These two, with a small area of the Liege province, formerly constituted an independent duchy There is also a town named Limburg in Liege province, where Limburger cheese was originally made

imbus in mediaeval scholasticism, a supposed borderland occupied by departed souls before the final judgment Also called limbo it included a limbus patrum, Abraham's bosom in Luke xvi, the prison to whose spirits Christ preached in Hades (1 Poter iii ), and a limbus infantium for un baptised children Dante s Inferno makes it the uppermest of hell's nine circles

absorbs water, evolving heat and finally crumbles to a soft bulky powder known as slaked lime or calcium hydroxide, which is soluble in water, forming a solution known as limewater. Lime is used in the making of mortar and cements, as a soil dressing in agriculture, also as a water softener, and in many important manufactures.

Typical genus of timber trees of the lines Thyme, as do the third and fourth, which are shorter. An example is

Lime Typical genus of timber trees of the lime order (Tilia), natives of N temperate regions The leaves are heartshaped, oblique and saw-toothed, the clustered great sented regions with the content of tered, sweet-scented, nectared vellowish-white flowers attract bees Small-leaved and taller flowers attract bees large-leaved subspecies grow wild in Britain The common European lime or linden, Teuropaca, introduced into Tudor England, furnishes whitewood useful for toys kitchen utensils and carvings, the inner bark or bast makes Russian matting The N American basswood, or American lime, 80-100 ft high, is more important

Lime Fruit Yellow, round or oval, cultivated varieties of the citron It originated in Asia Sour limes, 11 in across, regarded as Citrus medica, var acida, yield commercial lime-juice, citric acid and an essential oil, West Indian being preferred Sweet limes, regarded as C esteemed in India medica, var limetta, are

Limehouse District of London It is on the north side of the River Thames in the borough of Stepney It is largely inhabited by sailors and there are several docks in the district It has also a large Chinese population There are several homes and institutes for seamen Limehouse Cut connects the Rivers Thames and Lee

Lime Juice Liquid squeezed from the fruit of the sour lime It is used as a preventive of and remedy for scurvy, and also as a source of citric acid

Limelight Means of illumination obtained by heating quicklime to an incandescent state in an oxy hydrogen flame. A cylinder of lime slowly rotated in the flame produces the characteristic brilliant white light. Though still used for stage effects and in optical lanterns, it is now largely replaced by electricity.

Limerick City, seaport and market town of the Irish Free State, also the capital of the county It is on the Shannon, Gt Southern Rivs, and by canals It consists of Irish Town, English Town and Newtown Pery The chief trade is shipping, for which there are docks, and much dairy produce is exported Bacon curing and other agricultural exported Bacon curing and other agricultural industries are carried on and the city is famous for its lace The river is crossed here by several

for its face. The river is crossed here by several bridges. Pop (1926) 39,448. The famous siege of Limerick took place in 1691 and the treaty of Limerick was signed after its surrender, on Oct. 3, to the forces of

William III
The title of Earl of Limerick has been borne since 1803 by the family of Pery The earl's eldest son is called Viscount Glentworth

Limerick County of the Irish Free State It covers 1064 sq m It is mainly level, but contains the Galtee Mts in the NW The district called the Golden Vale is one of the most fertile parts of Ireland The chief rivers are the Shannan which toward the northern house the Shannon, which forms the northern boundary, and its tributaries Limerick is the county

There was a young lady of Riga, Who went for a ride on a tiger They returned from the ride With the lady inside,

And a smile on the face of the tiger Limerick competitions in which the competitor completes an unfinished limerick, have from time to time proved popular

General term for rocks Limestone Limestone whose chief constituent is whose chief constituent is When pure, a limestone is white, but the presence of iron compounds and other impurities give rise to red, brown, green, blue and other tints Examples of limestones are chalk, dolomite and marble, and most varieties are used in building and allied industries

Limited Liability Term used in English company law Since 1855 it has been possible to form companies in which the liability of the shareholders is limited to the amount of their shares Previously a partner or sharcholder was hable to lose everything he had if a business failed, as is the case with private firms to day Other legislation notably acts of 1862, 1908 and 1929, have dealt with the affairs of these limited liability or joint stock companies, but their fundamental position has remained unchanged The companies are of two kinds (1) liability limited by shares, (2) liability limited by guarantee

Limoges City of France It stands on the Vienne, 250 m. from Paris, and is a railway junction The chief building is the magnificent cathedral The pulliding is the magnificent cathedral The city is chiefly famous for the porcelain which is made here This is hard and semi-transparent with a brilliant glaze The city has a broadcasting station (293 M, 07 kW) Pop 931) 92,577

imonite Name given to brown haema-tite, the hydrated sesquioxide of iron, containing about 60 per cent of the metal and occurring in fibrous, concretionary or earthy masses resulting often from the decomposition of other iron ores A loose porous form deposited in marshes is known as bog iron ore and occurs in Scandinavia

Limpet Large, widely-distributed sub-molluses with conical shells Abundant on European coasts, the common Patella vulgata, clings to rocks with its round sucker-like foot, clings to rocks when his round sacker-incolor, feeding upon seaweed, its lingual ribbon having 1920 rasp like teeth Millions are collected annually for bait, and in some parts of Ireland for food See Gastropoda

Limpopo River of South Africa, also called the Crocodile It rises in the Transvaal and enters the sea 100 m. to the north of Delagoa Bay For part of its the north of Delagoa Bay For part of its distance it forms the northern and western boundary of the Transvaal

Linacre Thomas English scholar Born about 1460 he was educated at Canterbury and Oxford He studied medicine in Oxford and in Italy, and became tutor to Henry VII's son, Arthur Later he was

physician to Henry VIII He died Oct. 20, 1524

Linacre is known as one of the group who forwarded the New Learning in England, More and Colet being others of the group He, was one of the founders of the Royal College of Physicians

Lincoln (ity, county borough and mar ket town of Lincolnshire, also the county town It is on the Witham, 130 m from London, on the L N E and L M S Rlys Its chief glory is the cathedral one of the most magnificent Gothic buildings in the world, when the local ways a bull of a pay relice and superbly placed upon a hill A new palace and an old one, as well as a theological college, are associated with the cathedral

Other antiquities include remains of the Roman city and of the Norman castle, the old guildhall, part of a gatchouse called Stonebow, and John of Gaunts stables also an old guildhall Two houses are among the oldest experience of deposits are ablests to the control of the cont oldest specimens of domestic architecture in England Lincoln's industries include engin eering works and flour mills It has a large

England Lincoln's industries include enginering works and flour mills. It has a large trade in timber and farm produce. Races are held here. Pop. (1931) 60,346

Lincoln He was born in a log hut in Kentucky, Feb. 12, 1809, the son of Thomas Lincoln, who was descended from an emigrant from Hingham, in Norfolk. His mother, Nancy Hanks, died when he was a boy, and in poor circumstances the family moved from place to place finally settling in Illinois.

Abraham received a little education in school, but more from his own reading. In his rough surroundings he was known as a man of

scnool, our more from his own reading. In his rough surroundings he was known as a man of unusual strength and was popular as a story teller. He carned a living on the land, leaving it twice to work on cargo boats that sailed down to New Orleans. He then became a clerk at New Salem Illinois, and went on a campaign against the Indians in 1832. On his return he and a partner opened a store, but this failed He then secured a position as postmaster of the town and worked as a postmister of the town and worked as a surveyor He qualified as a lawyer in 1836, and began to practice at Springfield in 1837 In 1834 Lincoln's public life began with his

election to the legislature of Illinois, and his talents as a debater won for him the leadership of his party In 1846 he was elected to the House of Representatives at Washington, but

he declined re-election in 1850 The last period of Lincoln's life began in The last period of Lincoln's life began in 1854 when the controversy about slavery became acute The Republican party was formed to prevent any extension of the slave holding area Lincoln soon became its leader in Illinois and continued a series of debates with Stephen A Douglas begun in 1839 1840 In 1856 he was an unsuccessful candidate for the rice presidence but continued to lead the the vice presidency, but continued to lead the Republican Party, was nominated for the Republican Party, was nominated for the presidency and in 1860 was elected President In 1861 the Southern States second and under his direction the Northern States entered upon the Civil War Amid circumstances of great difficulty he directed the campaigns and in the end the North was victorious He had saved the Union, which he always asserted was his aim, although at an enormous cost, and in 1863 he had announced the emancipation of the slaves In 1864 he was again elected President, his opponent being M Clellan and in his in augural address he spoke of his desire to heal the wounds of the country On April 14 he was shot in the theatre at Washington by an actor, Wilkes Booth, and died on the following day

In 1842 Lincoln married Mary Todd one of his four sons survived him, Robert Todd Lincoln, who was American minister London, 1889-1893

Lincoln was the greatest figure in the history

of his country There is a statue of him near the Houses of Parliament at Westminster

Lincoln Judgment Name given to the Archbishop of Canterbury on matters of ritual in the Church of England Edward King (qv), Bishop of Lincoln was prosecuted in 1889 for certain acts performed during the celebration of the Holy Communion The case was heard before E W Benson, the Archbishop of Canterbury, and most of the acts declared legal. The decision was confirmed on appeal legal by the Privy Council

Second largest county Lincolnshire Lincomsilite of England It has a long east constline on the North Sea, from the long east coastline on the North Sea, from the Humber to the Wash It covers 2665 sq m and is divided into three parts, Lindsey, Kesteven and Holland, each with its own county council Lincoln is the county town other places are Grimsby Boston, Grantham and Sleaford The watering places include Cleethorpes and Skegness The principal rivers are the Trent, Witham and Welland
The county is flat, although there are chalk hills in the NE and the soil fertile Wheat, barley and notates are grown and cattle are

barley and potatoes are grown and cattle are reared Fishing is another industry In the north is a coal and iron field In the SE is the

for district and around the Wash is much reclaimed land. Pop (1931) 624,553

The Lincolnshire Regiment, known as the 10th Foot, dates from 1685

It has a fine record of services. The depot is at Lincoln

Lincoln's Inn One of the Inns Court in London occupies the site of a house owned by an Earl of Lincoln in the 13th century, bet Chancery Lane and Lincoln's Inn Fields Old Hall (1506) was restored in 1927 between

Lincoln's Inn Fields was laid out as a square by Inigo Jones It now belongs to the London County Council In the centre are some gardens and the buildings around include SIJ John Soane's Museum and the Royal College of Surgeons The Fields cover seven acres

Lind Jenny Swedish singer She was Stockholm, Oct. 6, 1820 After her first successes at the opera house at Stockholm in 1838 1841 she studied under Garcia in Paris In 1847 she appeared for the first time in London and later made her home in England, where "the Swedish nightingale" was very popular A devout Christian her later appearances were all in oratorios or on the concert platform taught singing for a time at the Royal College of Music, London In private life the wife of Otto Goldschmidt, director of the Bach Choir, she died at Malvern, Nov 2 1887

Charles Augustus Ameri-Born at Lindbergh Charles Augustus American airman Born at Detroit, Feb 4, 1903, of Swedish descent, he entered the Air Mail Service of the U.S.A. In May, 1927 he became known by his flight across the Atlantic for a prize of £5000 monoplane he did the journey from New York to Paris in 33 hours 50 minutes the first airman to fly the Atlantic alone In 1929 Colonel Lindbergh married a daughter of Dwight Morrow Morrow late ambassador to Mexico The kidnapping of their infant son in 1932 aroused interest all over the world, After a search

Lindisfarne Island off the coast of Northumberland, sometimes called Holy Island. In Anglo-Saxon times S Aidan founded a monastery there Later it became a Benedictine house, and its rulns remain About 1500 a castle was built, and restored in the 20th century At low water Lindisfarne can be reached on foot The nearest station is Beal The Lindisfarne Gospels, an illuminated MS dating from the 7th century, is in the British Museum

Lindley Baron English lawyer Nathaniel Lindley was born Nov 29, 1828, and educated at University College School and University College, London He became a barrister in 1850 and in 1875 a judge In 1881 he was made a judge of the Court of Appeal, in 1897 Master of the Rolls and in 1800 a Lord of Appeal and a life pear He Appeal, in 1897 Master of the Rolls and in 1900 a Lord of Appeal and a life peer He resigned in 1905 and died Dec 11, 1921 Lindley's book on the law of partnership is the

Lindley a book on the law of partnership is the chief authority on this subject.

Lindley John English botanist. Born at Catton, Norwich, Feb 5, 1790, he was educated there, and in 1821 entered the service of the Royal Horticultural Society to lav out the garden at Chiswick became secretary of the Society and from 1829 to 1850 was Professor of Botany at University College, London He died Nov 1, 1865 Lindley wrote The Vegetable Kingdom and other books, and edited The Botanical

Linder wive and edited The Botanical other books, and edited The Botanical Register and The Gardener's Chronicle

Lindrum Walter Australian billiards champion In 1929 he came to England and beat a number of records notably when he made a break of 3905 and when he scored 2572 points in a single after-In 1932 he made a record break of 4137 He is left-handed

Lindsay Sir Ronald Charles British Earl of Crawford and Balcarres, he was born May 3, 1877, and educated at Eton In 1898 he entered the Foreign Office and gained experience of diplomatic work in Paris and elsewhere From 1913 to 1913 he row 1973. elsowhere From 1913 to 1919 he was Under Secretary for Finance in Egypt In 1924 he went to Constantinople and in 1926, having been knighted, to Berlin as ambassador In 1930 he was transferred to Washington

Lindsey District of Lincolnshire The ti The title of Earl of Lindsey has been borne by the Lincoln-shire family of Bertie since 1626 The carl's seat is Uflington House, near Stamford.

Textile material made from the Linen fibres of the flax plant, Linum usualissimum The flax fibres represent the usidatesimum The flax fibres represent the usidatesimum The flax fibres represent the hard bast of the stem and are prepared by retting, a process in which fermentative bacteria in water act upon the cementing substance of the bast separating the fibres. This process is effected by steeping the stems in nonds, tanks or streams. The retted straw in nonds, tanks or streams. is dried, and then broken or scutched in mills is dried, and then probed of state By passing to remove all extraneous matter. By passing through hackling mills, the short fibres or fow are separated from the long fibres or line which are then spun into yarn for making linen to the partial and damage are responded of fine. Lawn Cambric and damask are examples of fine textured linen, while sheeting and some grades of tablecloths are made from coarser yarn. The chief seat of the industry is Northern Ireland

lasting ten weeks the child's remains were found in the garden of their house. In 1935 a German, Hauptmann, was pronounced guilty of the murder and condemned of the coast of Lindisfarne Island off the coast of Northumberland, some-lighter beneath, 4-6 ft. long, it is a ground-fish, trawled at 50-100 fathoms in the North Sea, and line-fished in winter Salted or dried as Lenten stockfish for Central and South Europe, it vields inferior "cod-liver" oil

English historian Lingard Was born at Winchester, Feb 5, 1771, and educated at Douai He became a teacher in a Roman Catholic college in Durham and there remained until 1811 He died at

and there remained that 1811 He died at Hornby in Lancashire, July 17, 1851 He refused to become a cardinal
Lingard is known by his History of England which takes the story up to 1688 It was very popular, and a new edition, edited and extended to 1910 by Hilaire Belloc, appeared in 1914

Lingfield Town of Surrey, It is 10 m. from Reigate, on the S Riv The beautiful collegiate church dates from the 15th century and there is an old prison, now used as a museum Races are held here

ink Unit of measurement. Gunter's surveying chain contains 100 links, ach 792 in The American engineering

each 7 92 in The American engineering chain has 100 links, each 12 in
Link Torch of tow or hards dipped in pitch perhaps so called because cut into lengths or links Before street illumination developed they served for lighting passengers linkboys plied for hire Iron link-stands with rings for holding links, and funnel-shaped extinguishers, occasionally survive on old London house doors

London house doors
Linithgow Burgh, market and county town of Linithgow, or West Lothian, 17 m from Edinburgh, on the L.N.E Rly The place, the birthplace of Mary Queen of Scots overlooks Linithgow Loch and was a residence of the kings of Scotland It is open to visitors and is second in historic interest only to Holyrood S Michael's Church is one of the finest parish churches in Scotland. The town has leather and paper manufactures. Pop (1931) 3666

Linlithgow Marquess of Scottlish title Hope John Adrian, 7th Earl of Hopetoun, who was the first Governor-General of Australia, was made Marquess of Linlithgow in 1902 He left Australia in 1905 and in that year was Secretary for Scotland His son, Victor, the 2nd marquess, in 1923 was chairman of the and marquess, in 1923 was chairman of the committee that inquired into the price and marketing of agricultural products and issued the Linhthgow Reports In Aug. 1935, he was appointed to succeed Lord Willingdon as as Viceroy of India His seat is Hopetoun House, near Linlithgow, and his eldest son is called the Earl of Hopetoun

Linlithgowshire County of Scot-West Lothian It covers 120 sq m. and has a coastline on the Firth of Forth Linlithgow is the county town, other places are Broxburn, Bo'ness, Bathgate and Queensferry. The Avon and the Almond are the chief rivers and there are hills in the north Pop (1931) \$1,426

Linnaeus Carl. Swedish bottinist, later born at Rashult in Smaland, May 23, 1707, and early studied botany He was educated at Upsala University for a medical career, but in 1730 was appointed Assistant Professor of Botany In 1735 he gained his doctor's degree

in Holland, and on his return to Sweden practised for some years as a physician, but from 1741 until his death he was Professor of Botany at Upsala. In his most famous works, the Systema Naturae, Genera Plantarum and Bibliotheca Botanica Linnaeus laid the founda tions of modern botanical nomenclature died Jan 10, 1778 His library and collections became the property of the Linnean Society, Burlington House, London, in 1828

Linnell John English painter Born in London, June 16, 1792, he turned his attention from portraits to landscapes and engravings His landscapes are chiefly scenes in Surrey Examples of his work are to be seen in the National and Tate Galleries, London He

died Jan 20, 1882

Linnet bird of the finch family, Linota cannabina Stout billed, 51 in long, it is called grey, brown or rose according to sex or season Its wool lined nest shelters 4 to 6 brown speckled, dirty white eggs A favourtic cage bird, it ranges Europe and W Asla, wintering southward, being largely replaced in Scotland by the mountain linnet or twite

Linnhe W coast of Scotland, between the counties of Inverness and Argyll

Trade name meaning lin Linoleum Trade name meaning in seed-oil fabric, of a kind of floorcloth Patented 1860 and 1863, it comprises oxidised linseed oil incorporated with ground cork, resins and pigments, pressed upon a coarse canvas backing between steam heated rollers It may be self-coloured, printed or inlaid with coloured compositions. It is made in Lancaster, Greenwich and Dunfermline

Linotype Printing machine which sets series of mechanical operations In a similar manner to a typewriter the operator depresses a key releasing a matrix or metal plate, bearing a key releasing a matrix or metal plate, bearing a corresponding letter, from a magazine. The matrices are carried along to a compartment on the machine in which moiten type metal is forced against the matrices to form casts of the lines of letters, the machine then returning the matrices to the magazine.

Linseed Ripened and dried flax seeds brown, the outermost coat contains mucilage from the cotyledons are expressed, with or without heat. 40 per cent of a valuable drying

without heat, 40 per cent of a valuable drying oil used for paint, varnish, lineleum, seap and printers' ink The residual 60 per cent is pressed into oil-cake for cattle food Of the world's production of 4,000,000 tons Argentina raises half, India, Russia, Canada and U.S A the remainder Linseed poultices, of freshly ground meal, are unsuitable for open wounds.

Linthwaite urban district of York Shire (WR) It is on the Colne, 3 m from Huddersfield, a centre for woollen manufacture Pop (1931) 9689

L101 Largest of the cat tribe (Felis leo), sometimes reaching 10 ft. overall, and surpassing 500 lb The shaggy mane on the male's head and shoulders distinguishes it from other large Old World cats, the tutted tail conceals a thorn like spine. The tawny tall conceals a thorn like spine The tawny coat, pale to deep, is uniform, the mottling and striping of the cub's coat disappears at maturity Barbary, Senegal and Persia furnish

pigs, man cating is rare They are found in Africa and parts of Asia, including India.

LIPTON

Lion Heraldic charge, especially on royal and princely shields The earliest attitude, reared on hind legs, was called rampant, distinguished from passant, walking on four paws, statant, walking on four paws, the company of the partial partial property of the company of the co Heraldic charge, especially on royal sejant recumbent sallent, springing gardant, denoting full faced The lions of England, first used on Richard I's great seal, 1194, are passant gardant

Upper and lower muscular border of the mouth, comprising skin, fibrous and glandular tissue, muscle and mucous membrane
The superficial blood vessels impart a rosy
colour which anaemia renders pallid and
defective oxygenation livid Lip ornaments,
characterising certain African and American Indian peoples, are made of stone, bone, wood, metal, shell and feathers, usually involving perforation See HARE LIP

Lipari Group of 7 islands about 20 m from the N coast of Sicily and 46 sq m in area They are volcanic and Stromboll is still active. The town of Lipari, on Lipari Is is the capital with a good harbour, and a castle built by Charles V The soil is fertile and the islanders grow olives, currants, etc Pop 22,000

1poma Name given to a certain kind of innocent tumour, in which fat is mingled with the tissue. It is found on any part of the body, chiefly in persons of sedentary habits and is harmless. The only real cure is surgical

Lippe State of NW Germany, now a Detmold is the capital The Weser is the chief river The soil is fertile, but much of the land

is forest. Pop 163,650

The River Lippe is a tributary of the Rhine
It flows through Westphalla and is 150 m long

L1pp1 Fra Filippo Italian painter He was born at Florence in 1412 and became a monk, hence the designation Fra pecame a monk, nence the designation Fra
or Frater Living at Padua, Florence, Prato,
where he was chaplain in a convent, and else
where, he painted a good deal and there are
pictures by him in the National Gallery
London, the Louvre and other European
collections He died at Spoleto in Oct. 1469
His son, Fra Filippino Lippi (1460 1504)

was equally famous as a painter and some of his work is in the National Gallery, London

Lip-Reading Understanding the speech of others by observing the movements of lips and tongue, and the facial expression Some dear persons employ it instead of watching finger spelling It has proved unsatisfactory for the systematic training of deaf mutes, except in combination with manual methods The British National with manual methods The British National Institute for the Deaf recognises as one of its objects the re education of the partially deaf through speech reading See DEAFNESS

Lipton Sir Thomas Johnstone British was born in Glasgow May 10, 1850 He began life as an errand boy and about 1865 went to the United States. In 1875 the United States In 1876 he opened a provision shop in Glasgow The business prospered, other shops were acquired, and in a few years the firm of Lipton s, Ltd, became one of the largest in the retail provision trade, naturity Barbary, Senegal and Persia furnish with interests in Ceylon and elsewhere In varieties one was contemporary with early 1898 Lipton was made a knight, and in 1902 man in England Lions prey on anticlope, zebra a baronet. He died unmarried Oct. 21, 1931 and other large mammals, also on cattle and To the public Lipton was best known as a

yachtsman and a liberal donor to the hospitals
He built several yachts, called Shamroch, which
competed for the America Cup

Liquation Metallurgical process for the
separation of a metal from
its ore It is used especially in the case of
complex ores containing mixtures of lead,
silver and copper, by heating the ore in a
furnace to a temperature at which those constituents, having lower melting points than the
rest, sweat out or liquate from the mass rest, sweat out or liquate from the mass

Liquefaction Term used in physics of a substance from a solid to a liquid, as ice to water, and also the change from a gas to a liquid The latter results in liquid gases, such as liquid alr, liquid oxygen and others, which are much used in commerce The processes, which were greatly developed by the researches of Sir James Devar are very alaborate. The of Sir James Dewar, are very elaborate The gases are cooled by allowing them to expand

Liqueur Potable spirit, usually sweetened with a distinctive flavouring Well-known varieties include Kirsch and Maraschino, distilled from or flavoured with cherries, Kümmel, flavoured with caraway seeds, Curaçao, with bitter orange peel, Absinthe, with wormwood, Noyau, with fruit-kernels Benedictine and green or yellow Chartrage, withse corect projects. Absintine, with wormwood, Noyau, with fruit-kernels Benedictine and green or yellow Chartreuse utilise secret monastic recipes Crêmes are usually thick and oily, eg. Crême de menthe Apricot, cherry, orange and peach brandy, and sloe gin, are prepared by steeping the truits Vermouth is fortified and aromatised white wine

Liquid State of matter in which the molecules are held together by cohesion to a less degree than in a solid, and have a greater freedom of movement giving the property of fluidity

the property of number Measures used for liquids are called liquid or fluid measures. In Great Britain the standard measure is the gallon, defined as the measure of 10 lb of distilled water at 62°F with the barometer at 30 in , making it contain 277 274 cubic in of distilled water. The unit in the metric system is the litre See LITRE

Liquid Fire Weapon introduced by the Germans during the Great War It was an inflammable oil ignited from a blow pipe called a flammenwerter, or the oil

from a blow pipe caned a nammenwerier, or flame thrower Gas was used to eject the oil which then burst into flame

Liquidation Term generally used for a limited company is insolvent. It is the equivalent of bankruptcy in the individual Assumption between many resints liquidation to company, however, may go into liquidation for purposes of amalgamation or reconstruction, or because the object for which it was formed has been attained There are three modes of liquidation, voluntary, voluntary under the supervision of the court, and compulsory

Liquor Control Supervision by the state of the sale of Liquor Control state of the sale of intoxicating drink In Great Britain no one can sell intoxicating liquor, for consumption on or off the premises, unless he obtains a licence. These licences are granted by the magistrates, and an annual charge, dependent upon the value of the public house, is paid A licence is usually only granted for a year and can be withdrawn if its holder infringes the law. The police are responsible for seeing that the law is observed, and they can object, as can any one else, to the renewal of a licence if they have grounds for complaint. In Scotland there is a system of local option. there is a system of local option.

Other methods of control, notably the Gothenburg System in Sweden, have been tried, these including a partial control by the State, as in some provinces of Canada In England, during the Great War, the State took entire control of the sale of intoxicating

liquor in certain areas where munitions were made After the war this control was retained in the Carlisle district, where it is still managed by a board of control under the Home Office In 1930 a royal commission was appointed to inquire into the licensing laws as they concern the sale of intoxicating liquor See LOCAL OPTION

Liquorice Brittle, blackish substance (glycyrrhiza) It comprises juice extracted from the long, woody roots of a perennial Mediterranean leguminous herb. Both this stick liquorice and the peeled root serve as a mild laxative, sweetmeat, flavouring for nauseous medicines and demulcent in throat lozenges It comes from Pontefract, Yorks,

but chiefly from Calabria and Spain

Lita Unit of currency in Italy It is
coined in silver Paper lire were also issued
The nominal value of the lira is 94d, the same
as the franc, but it has depreciated since the
War In 1927 it was stabilised at 92 46 to the £

Lisbon City and scaport of Portugal, on the estuary of the Tagus, about 12 m from the sea, it has been the capital since 12 in Front the sea, to have been one capital since 1260. It has a pleasing climate and a fine situation and is much visited by foreigners. The Praça do Commercio is the largest of several fine squares, and there is a huge bull ring. The river makes a magnificent harbour, and continued with dools and continued by well equipped with docks, and considerable business is due to its position as the financial and distributing centre of the republic It is also a fishing port and has two broadcasting stations (31 25 M, 2 kW, and 282 2 M., 2 kW) The city includes Belem and Alcantara, famous for its marble aqueduct, and covers 50 sq m It was almost destroyed by an earthquake on Aug 1, 1755 Pop (1930) 594,390

Lisburn City, urban district and market town of Co Antrim, N Ireland, on the Lagan, 8 m from Belfast, on the G N. (Ireland) Rly The principal industry is linen manufacture Pop 12,400 The title of Earl of Lisburne has been held since 1776 by the family of Vaughan

family of Vaughan

Liscard District of Cheshire On the

River Mersey with a station on
the L.M.S. Rly, it is in the county borough of
Wallasey Pop 16,535

Lisieux Town of France In the department of Calvados, it is on the
River Touques, 30 m from Caen by rail and 19
from Honfleur The church of S. Pierre was
a cathedral The enisconal malace is now once a cathedral The episcopal palace is now Pop 16,000 a museum

Liskeard Borough and market town of Cornwall, 15 m from Plymouth, on the GW Rly There is a trade in agricultural produce Pop (1931) 4266

Lismore Island of Argyllshire, 91 m long and 11 m broad, at the entrance of Loch Linnhe There are ruins of a cathedral and a castle, and a collection of Gaele poems known as the Book of the Dean of Lismore Agriculture and fishing are the chief occupations, and there is a lighthouse on the S W point Pop 357

ismore Town of Co Waterford, Irish is on the Blackwater, 4 m. from Cappoquin, on the Gt. 8 Riva.

> a**t** 

LITTER 802 LISTER

The castle, once the property of Sir Walter Raleigh, is now a seat of the Duke of Devon shire Pop 1600

Lister Baron English surgeon and scientist Joseph Lister was born at Upton, Essex, April 5, 1827, the son of a member of the Society of Friends He was educated in London and became a doctor Specialising in surgeon he was made professor. equenced in London and became a decor Specialising in surgery, he was made professor of that subject at Glasgow in 1860 in 1869 he became Professor of Clinical Surgery at Edinburgh, and in 1877 at London In 1885 he was made a baronet and in 1897 a baron His other honours included the Order of Merit and the presidencies of the Royal Society and the British Association He died Feb 10. British Association 1912, when his title became extinct

Lister was one of the greatest surgeons of his time, and is famous as the inventor of anti septics The Lister Institute of Preventive Medicine was founded in 1891 and took its present name in 1903 Its headquarters are at Chelsea and it has laboratories at Elstree

Listowel Market town and urban district of Co Kerry, Irish Free State, on the little River Feale 170 m from Dublin on the GS Rlys There are ruins of a castle The town has an agricultural trade Pop 2917

The title of Earl of Listowel has been borne by the family of Hare since 1822 The eldest son is called Viscount Ennismore The earls

L1SZt Franz. Hungarian musician Born Oct 22, 1811, the son of Adam child He studied music in Vienna and Paris and soon became known on the concert plat forms, appearing in London and other centres In 1849 he was made conductor of the opera at Welmar, where he remained until 1861 The rest of his days were passed mainly in Paris and Budapest, and he died at Bayreuth, July 31 1886 In 1865 he took orders in the Roman Catholic Church, and he is sometimes called the Abbé Liszt.

Litany Form of prayer or supplication in which the responses are said by the congregation It was first used in the 4th century and since then many litanies have been compiled The litany of the Church of England is based on the one compiled by Cranmer in 1544

Litharge Monoxide of lead It is formed when lead is heated strongly in air, causing slow oxidation of the metal, or by heating lead carbonate to dull redness. As a heavy straw yellow powder it is known as massicot, but when melted to form a crystalline solid as litharge. It is used as a glaze for pottery and in glass, enamel and rubber manufactures

Litherland Urban district of Lanca shire, 4 m from Liverpool, on the LMS Rly The Liverpool overhead electric railway also has a station here Pop (1931) 15,967

Lithgow Town of New South Wales It is 100 m from Sydney by rail and is a mining centre, with coal iron ore and shale There are some manufactures Pop 16,380

Lithography Process of surface print-zing or aluminium. It was invented about 1798 by Aloys schefelder. The process is based upon the antipathy between grease and water so that when the stone or plate, upon which is a drawing in greasy ink is moistened with water and an inked roller is passed over the improved after the Persian contact. Curtained

surface, the ink is retained by the drawing, but rejected by the water elsewhere

Lithosphere Term used to denote the solid mass of the earth The lithosphere has an irregular surface and has been divided into an abysmal area where the occan is over 10,000 ft deep, a transitional area where the water is under 10 000 ft in depth, and a continental area forming the land surface

Republic of Europe Lithuania Formerly part of Russia, it lies between Latvia Poland and Germany, and has a coastline on the Baltic Its boundaries with Poland are not absolutely settled as both countries claim Vilna and district. Kovno or Kaunas is the temporary capital, but Vilna, which is in the possession of Poland is regarded by Lithuanians as the capital Other places are Grodno or Gardinas, and Suvalki both still retained by Poland Memel is the chief scaport, but here Poland has certain rights The area

but here Poland has certain rights. The area is 21,489 sq. m., but with the regions in dispute it is about 30 000. Pour (1932) 2.32 983. Lithuania is an agricultural country, level and fertile. Oats, wheat, rye and potatoes are among the crops. cattle, sheep, and pigs. are roared and there are large forest areas Dairy produce, corn, cattle timber and hides are the chief exports. The army is recruited by compulsory service The litas, worth about 4d , is the unit of currency There is a state

bank which issues notes

The constitution of the country consists of a President, elected for seven years, and a cabinet under a Prime Minister This is responsible to a legislature or dict, elected every

five years by all men and women

Soon after 1300 Lithuania became a grand duchy and in the 15th century was a very large state, stretching from the Baltic to the Black Sea In 1500 it was united with Poland, Black Sea in 1500 it was united with Poland, although in some respects romaining independent. At the end of the 18th century, like that country, it was partitioned, Russia and Prussia dividing it between them.

In 1918, the Lithuanians, then under Russian rule, proclaimed their independence Russia recognised this in 1920 and the European proper in 1929.

pean powers in 1922 In 1926 military officers overturned the government and appointed a new President who was re-elected in 1932 Under the Treaty of Versailles a French High

Commissioner replaced German rule over the town and territory of Memel, but in Jan, 1923 town and territory of Memel, but in Jan, 1923 the Lithuanians invaded it and by a Convention signed at Paris in May, 1924, took over sovereignty The Nazi sympathies of the Memel Diet have caused high feeling and in Sept, 1935 Hitler invited the League to examine the Memel question

Litmus Colouring matter obtained from various lichens (Rocella lecanora, etc) Litmus is used as a chemical test for acids and alkalis, as its natural purplish blue colour is turned red by acids and restored by alkalis The lichens are treated with ammonia and fermented, then with an alkaline carbonate and lime, the liquor finally being evaporated

Litre Unit of capacity in the metric system of weights and measures It is calculated very carefully as the volume of a cubic decimetre, but roughly speaking, 41 litres are equal to a gallon

and roofed litters supported by poles on men's shoulders spread throughout the Roman for Foreign Affairs, and as such represented Empire and mediaeval Europe until supplanted by travelling coaches Hand litters for transporting army wounded occur, besides horse, on behalf of the USSR in 1936 by travelling coaches Hand litters for transporting army wounded occur, besides horse, mule and camel litters See SEDAN CHAIR

Market town Littleborough Market urban district Lancashire, 4 m from Rochdale, on the L MS Rly The chief industries are cotton manufacture and coal mining Pop (1931) 12,028

Little Englander Term used for one who is opposed to any expansion of the British Empire A term of contempt, it was first used about 1890 See IMPERIALISM

Little Entente Name used for the countries of Czechoslovakia, Rumania and Yugoslavia It was founded in 1920 and renewed in 1929

Littlehampton Seaport, watering place and urban district of Sussex, at the mouth of the Arun, 62 m from London, on the S Rly The sands and bathing are good and there are golf links On the front is a large green The river is crossed by a bridge and a ferry There is a little shipping Pop (1931) 10,181

Littleport Town of Cambridgeshire, on the Great Ouse, 6 m from Elv, on the LNE Rly The main industry is marketing the fruit and vegetables that are grown in the district

Littlestone Village and watering place of Kent, 8 m from Hythe, on the S Rly There are golf links here Littleton Village of Middlesex, 3 m from Staines The Metropolitan Water Board has one of its largest reservoirs here, opened in 1925

Littleton Sir Thomas English lawyer He was born at Frankley, Worcestershire, about 1410 In 1466 he was made a judge, and he died Aug 23, 1481

Littleton 's known because he wrote in

Norman French a treatise on tenures, which is one of the earliest text books of English law It has been translated into English and on it Sir E Coke wrote a famous Commentary

Term in geography to denote the Littoral Term in geography, to denote one country The physical configuration of the coastal regions varies greatly, in some areas it is a belt of low elevation with estuaries or deltas of large rivers, centres of economic production, in others rugged cliffs and a littoral of high elevation, sparsely populated and less productive

Liturgy Greek word meaning "public service," used in several senses
It refers to any or all of the services in the Book of Common Prayer, which contains the liturgy, or liturgies, of the Church of England More strictly it applies to the form or office for the administration of the Holy Communion, a use to which it was put as early as the 4th century

Litvinoff Maxim Russian politician He was a Jew named Findelstein before taking his present name He joined the Communist Party in Russia and worked for it in London where he was engaged for a time as a journalist He became one of the leaders of the Soviet and in 1918 was sent to London as its representative Soon, however, he was children to leave the country, and he he was obliged to leave the country, and he then represented his country in Sweden and

Liver Largest glandular organ in the body Normally weighing 50-60 oz, it is situated on the right side, diaphragm above, intestines and right kidney below Blood from the stomach and intestines enters it through the portal vein, some harmful substances are abstracted, and the food's vegetable starch converted into animal starch or glycogen, which is stored ready for reconversion into sugar and restoration to the blood as required The hepatic veins receive this as well as that derived from the hepatic artery after circulating through the organ for its own nourishment. Another duty is to form bile which pours into the duodenum direct or collects in the gall-

the duodenum direct or collects in the gall-bladder See BLE, JAUNDICE

Liver Fluke Worm which is harmful to sheep and occasionally to horses, cattle and dogs. It is about an inch long and obtains its name because its eggs are nourished on the liver of the water snall. As worms they leave the snall and fasten themselves on to blades of grass where they are liable to be eaten by sheep In this way sheep may contract a serious disease called distoniasis

Liverpool City and scaport of Lanca-shire, on the estuary of the Mersey, 201 m from London, on the LMS Rly An electric overhead railway serves the city and its suburbs The area is 33 sq m Canals link the Mersey with the trading centres

Canals link the Mersey with the trading centres in the N and centre of England

The buildings include the cathedral begun in 1904, which occupies a commanding site, and which, when finished, will be one of the finest modern churches in the world The Roman Catholics have planned to build a cathedral which will rival S Peter's in size The university, founded in 1903, has a school of tropical medicine and a technical college In 1932 a radium institute was oneped

The main industry of Liverpool is shipping, especially the import of cotton Controlled by the Mersey Docks and Harbour Board there are extensive docks on both sides of the river, the quays being 37 m in length Other industries quays being 37 m in length Other industries are the manufacture of cement, chemicals, etc The city obtains its water supply from Lake Vyrnwy in N. Wales Pop (1931) 855,539

Liverpool Town of New South Wales, oentre of a sheep-rearing district Pop (1931) 6,360

Liverpool Earl of English title held by the families of Jenkinson and Foljambe Its first holder was Charles Jenkinson Born April 26, 1727 he became prominent in politics and held office under Pitt. In 1786 he was made Baron Hawkesbury and in

In 1786 he was made Baron Hawkesbury and in

In 1786 he was made Baron Hawkesbury and in 1796 Earl of Liverpool He died Dec 17, 1808 Liverpool's son and successor, Robert Banks Jenkinson, was born June 7, 1770 He entered the House of Commons in 1790 and in 1801 became Foreign Secretary As such he helped to make the Treaty of Amiens In 1804 he became Home Secretary, under Pitt, and Prime Minister His long term of office of 15 years was marked by a steady resistance to reform. He died Dec. 4, 1828, and the title became extinct on the death of the 3rd earl in 1851 In 1893 Cecil George Savile Foljambe, a grandson through his mother, of the 3rd earl.

grandson through his mother, of the 3rd earl, was made Baron Hawkesbury and in 1905, Earl of Liverpool His son, Arthur, the 3rd

804

earl who succeeded in 1907, was Governor General of New Zealand, 1912 20

Liverpool Street Thoroughfare in Ir runs from Bishopsgate Street to Blomfield Street, from Bishopsgate Street to Blomfield Street, and gives its name to a great railway station, opened in 1875 to serve the GE Rly It is now a terminus of the LNE line The street, once called Old Bethlehem, was named after the Prime Minister Lord Liverpool

Liverwort Flowerless plant of a class (Hepaticae) They differ in having two sided stems, spiral threads among the spores and a simpler organization. Being chlorophyll hear

simpler organisation Being chlorophyll bear

simpler organisation. Being chlorophyll bearing, they are green or brownish green, usually growing on rocks or trees in marshy situations.

Livery originally denoting the provision of food and clothing for a household. From the sense of a fixed food ration for horses came the term livery stable, ultimately designating one keeping horses and carriages for hire From the sense of a fixed supply of household clothing it passed into the uniform adopted by princes, barons and others for their civilian or military retainers from the distinctive clothing of trade guilds it came to denote the livery companies themselves

Living Ecclesiastical benefice, held by a rector or a vicar He must have been in holy orders for two years, and is presented to the living by the patron it is a freehold estate and from it he cannot be re moved except for a serious moral or ecclesias tical offence He must reside in the parish for at least nine months of the year unless he gets leave from the bishop for a longer period

Livingstone David Scottish mission ary and traveller Bornat Low Blantyre, Lanarkshire, March 19, 1813, a son of Neil Livingstone, a small trader, he began to work in a cotton mill as a child He managed to obtain some education and saved enough money to graduate in medicine at the University of Glasgow In 1840, under the auspices of the London Missionary Society, he went to Bechuanaland, S Africa, where he was associated with Robert Moffat

In 1849 Livingstone began his explorations He travelled down the Zambezi, discovered the Victoria kalls Nyassa and other lakes, and his victoria rails Nyassa and other lakes, thu his last journeys were made to discover the sources of the Nile In Oct., 1871, he was rescued at Ujiji by Stanley He died at Ilala on May 1, 1873, and was burled in Westminster Abbey Livingstone married Mary, daughter of Dr Moffat. His work is commemorated by the Livingstonia Mission of the Church of Scotland, and there are memorical to him at Risantre. and there are memorials to him at Blantvre

Livingstone Capital of Northern Rhodesia, near the Zam bezi River, 287 m from Bulawayo by railway It has government buildings and an Anglican Lusaka has been chosen as the new church Pop 800 capital

A mountain range about 100 m long, N of Lake Nyassa is named after Livingstone, as

is a gorge on the Zambezi

Livy Roman historian Titus Livius was in AD 17 His History of Rome was in 142 books, and the 35 books which remain cover the period from the founding of the city (753 BC) until 9 BC From time to time come reports that some of the lost books have been found Livy was a lively and vivid, if not always accurate, historian

Order of scale clad reptiles found Lizard Order of scale clad reptiles found regions They differ from snakes by having normally four limbs movable evelids external ears, and mandibles suturally united Zealand's lizard like non scaly tuatera forms a reparate order, newts are smooth skinned batrachians. The 1700 species are carnivorous or herbivorous, mostly terrestrial and arboreal. producing either eags or living young The Glia monster is the only venomous form Geckes, chameleons and true lizards form sub orders of Britains four species, the common Lacerta viripara, 7 in long, and the snake like blind worm produce living young the sand lizard, 9 in , is egg laying Guernsey has the European green lizard, 12 to 16 in long

Lizard The Most southerly point of England It is in Cornwall, 10 m from Helston, and is reached by motor vehicles On the headland are a lighthouse and a wireless station and around it are some famous coves and much magnificent scenery. The village near, a popular pleasure resort, is called Lizard Town

Llama S American two toed ruminant. It is related to Old World camels, but smaller, humpless and woolly haired (Lama plama) Pre-Columbian America domesticated two breeds of the wild guanaco Of the ilama, usually white, the males served as beasts of burden, the females providing milk and flesh food The alpaca, usually black provided wool

Lianberis Village of Caernarvonshire, 9 m from Caernarvon on the L MS Rly Called the Chamonix of Wales, it is a good starting place for the ascent of Snowdon Near are two lakes, one over a mile long, and some slate quarries The Pass of Lianberis, the wildest in Wales, rises to over 1100 ft. A coach road goes over it

Llandaff City of Glamorganshire It is the River Taff, 149 m from London, on the G W Rly The small cathedral was completely restored in the 19th century Llandaif has been the seat of a bishop since about 600 It has ruins of a castle

Llandello Market town and urban district Carmarthenshire, on the Towy, 15 m. from Carmarthen, on the G W Rly Near is Dynevor Castle, the seat of Lord Dynevor, bullt to replace a castle first creeted Dynovor, built to replace a castle first creeted in the 9th century. The town is named after S Tello, a bishop of Llandaff, and has an agricultural trade. Pop. (1931) 1886.
A division of Ordovician rocks is called the Llandello group by geologists.

Llandovery Borough and market town of Carmarthenshire, on the Towy, 26 m from Carmarthen, on the G W Rly There are ruins of a castle Pop (1931) 1980

Liandovery College is one of the chief public schools in Wales Founded in 1848, it has accommodation for about 200 boys

In geology Llandovery rocks are a division of the Silurian They are much used for making roads and for building purposes

Llandrindod Wells Urban district place of Radnorshire, on the Ithon, 46 m from Shrewsbury, on the LMS Riv In the 18th century its mineral springs became known, and they are visited by sufferers from gout, repeated they after description. rheumatism, skin diseases and other complaints The town stands high, and has many attractions for visitors Pop (1931) 2925

Llandudno Watering place and urban district of Caernarvon-shire It is on the N Coast, where the Conway falls into the sea, and is on the L MS Rly, 48 m from Chester and 228 from London In the 19th century it became a very popular lateral terms. pleasure resort The sands are good and there is a fine promenade The Happy Valley is an amusement centre Steamers go to Liverpool and elsewhere Pop (1931) 13,677

Llanelly Borough, seaport and market town of Carmarthenshire It is on Burry Inlet, part of Carmarthenshire 1t is on Burry Inlet, part of Carmarthen Bay, 12 m from Swansea, on the G W Rly The chief industries are tinplate works, copper refineries and chemical works There is a good harbour with extensive docks. Pop (1931) 38,393

Llanfairfechan Urban district of About 8 m from Bangor, it is a popular watering place Pop (1931) 3162

## Llangammarch Wells

Watering place of Brecknockshire, 15 m from Llandovery, on the LMS Rly The waters here are suitable for heart troubles as they contain barium chloride, which is not found anywhere else in the British Isles

Llangefni Market town and urban district of Anglesey, on the River Cefni, 250 m. from London by the LMS Rly It is an agricultural centre LM.S Rly It Pop (1931) 1782

Llangollen Market town and urban district of Denbighshire, on the Dee, 202 m. from London, on the G W Rly It is famous for its 14th century bridge, Aly 1t is famous for its 14th century bridge, and the house, Plas Newydd, now a museum, in which the "Ladies of Llangollen," Lady Eleanor Butler and the Hon Sarah Ponsonby, lived There are remains of a Cistercian abbey called Valle Crucis, and the scenery around is beautiful Pop (1931) 2937

lanidloes Borough and market town of Montgomeryshire It is 14 m N of Rhavader and 198 from London by the G W Rly, and is situated on the Severn It has lead mines and flannel mills Pop (1931) 2356

Lianos Name used in S America for plains on which cattle graze They are covered with grass, except in the dry season They are chiefly in Venezuela. The word, a Spanish one, means "plains"

Lianrwst Urban district and market town of Denbighshire It is 11 m from Conway and 234 from London, by the LMS Rly Multing and tanning are its principal industries Pop (1931) 2366

Urban district of Mon-Liantarnam Urban district of Mon-mouthshire, 5 m from Pontypool and 3 from Newport, on the G W Rly Its buildings include Liantarnam Abbey and coal mining is its chief industry Pop (1931) 7284

Llanthony Village of Monmouthshire, the Honddu River Its ruined abbey was a house of the Austin Friers, founded in 1108 and from 1811 to 1814 was the home of Walter S Landor Near is a modern abbey founded in 1869 by the Anglican monk, Father Ignatius It belongs to the English Benedictines

Llantrisant Markettown of Glamorgan-shire, 101 m from Cardin, on the G W. Rly There are numerous collieries in the vicinity Pop 21,946

Llantwit Major Market town of Glamorganshire Market town of It is 5 m from Cowbridge on the GW Rly Llantwit had a monastery, which was a famous seat of learning in the Middle Ages, and a seaport, Colhugh, on the Bristol Channel

Llanwrtyd Wells urban district Brecknockshire An inland watering place, it is 11 m from Llandovery and 231 from London by the L.M.S. Rly. Pop. (1931) 742

Llewelyn Name of several Welsh princes Llewelyn the Great was a prince in N Wales from 1194 to 1239 He was constantly at war with King John and his son, Henry III In 1239 he went into a monastery at Aberconway where he died, April 11, 1240 His grandson was the Prince Llewelyn Lymbo fought aggingt Edward I Warne II who fought against Edward I He was beaten and made prisoner in 1276, but later released and died in battle near Builth in 1282.

Llewellyn Sir William English artist. studied art in S Kensington and in Paris In 1912 he was elected A R.A. and in 1920 R.A. In 1928 he was chosen President of the Royal Academy He has painted portraits of Queen Mary and other members of the royal family

Lloyd Baron English politician Born banking family, George Ambrose Lloyd was educated at Eton and Cambridge He travelled a good deal in Asia and Africa, was for a time in the diplomatic service, and became an authority on the politics of the East In 1910 he was elected to Parliament as M.P for W. Staffordshire In 1918 he was appointed Governor of Bombay, and in 1924 he returned to Parliament as M.P for Eastbourne In 1925 Lloyd was appointed High Commissioner for Egypt and the Sudan, and made a peer as Baron Lloyd of Dolobran He retired in 1930 and returned to public life in England. a good deal in Asia and Africa, was for a time

Lloyd Edward. English publisher He was born Feb 16, 1815, at Thornton Heath and started in business in London as a Heath and started in business in London as a bookseller and newsagent. He then became a publisher, and in 1842 founded Lloyd's News, a London Sunday paper, which was a great success He also started the Daily Chronele, and established paper mills at Sittingbourne as Edward Lloyd, Ltd He died April 8, 1890, and until 1918 his business was conducted by his sons The newspapers have now been incorporated with others, but the paper making business, one of the largest in the world, is controlled by Lord Camrose

Lloyd Edward English singer Born in London, March 7, 1845, he sang as a boy in the choir of Westminster Abbey, and later in the Chapel Royal About 1871 he went on the concert platform, and his fine tenor

on the concert platform, and his fine tenor voice made him one of the most popular vocalists in the land. He died March 31, 1927.

Lloyd was born at Burchard, Nebraska, on April 20, 1893 Beginning as an extra with the Edison Company in 1913 he joined Hall Roach a year later, making a reputation with "A Sailor Made Man" "Granny's Boy," etc. In 1923 he organised the Harold Lloyd Corporation whose first picture was "Girl Shv" Lloyd's humour is clean satire of the bespectagles. humour is clean satire of the bespectacled ingenuous American youth

Lloyd Marie English music hall artist.
Born Feb 12, 1870, she first gained recognition in the cast end, but later appeared

LOCH 806

at the Oxford music hall, and in pantomime at She was the embodiment of Drury Lane cockney humour, exploiting the cockney genius for low comedy in turns which placed her among the foremost music hall artists She died Oct. 7, 1922

Lloyd's London association of under writers, engaged in the business of insuring ships and their cargoes It originated about 1688 in a coffee house kept by Edward Lloyd who issued Lloyd's List and Lloyd's News, both giving particulars about the movements of ships in 1774 the association having been properly constituted, moved into the Royal Exchange There it remained until 1928, when a fine building in Leadenhall Street was opened The association, which is governed by Sec | a committee, was incorporated in 1871 UNDERWRITER

Lloyd's Register of Shipping is a society which records particulars of all merchant shipping of 100 tons and upwards, issues standard rules for shipbuilding and supervises construction and compiles statistics of all vessels under con

struction

Load Line Plimsoll mark placed amid ships on the sides of a vessel to show the limit to which leading may be carried This mark consists of a twelve inch circle with a horizontal line drawn through the centre, and in addition a "grid" is marked to show load lines for different seasons and waters.

Loam Term applied to a sandy clay usually containing carbonate of lime and of sufficiently loose texture to allow of the free percolation of water through it

Capital and seaport of Angola, Loanda in full San Paolo de Loanda It stands on a bay protected by the island of Loanda. Connected by railway with the Loanda. Connected by railway with interior, it exports the produce of the land

Lobby Small hall or waiting room. It is used sometimes for part of a house but more usually in connection with legislative assemblies such as the House of Commons, where voting takes place in two lobbies. Those in favour of a motion go into the "ave" lobby and those against it into the "no" lobby. In other lobbles the legislators interview those who From this has come the term call on them lobbying, which means that outside interests bring pressure to bear on members of Parlia-ment to support or oppose a certain proposal

Lobelia Large genus of perennial and annual plants They are mostly herbs, of the Campanula order natives of nearly all temperate and warmer regions. The dwarf, compact tutts grown in garden borders L crinus, came from 8 Africa Tall Mexican cardinal flowers and Virginian blue cardinals have yielded handsome hybrids with carmine, purplish blue, white and rosy magenta blooms

Lobengula King of the Matabele from 1870 until 1894 He is known as the leader of the people in their war with the British in 1894, in which they were defeated

Lobito Bay Harbour of Portuguese W Africa It is 4930 m from Southampton The best harbour on the W coast, it is protected by a spit of sand, and large vessels can anchor close to the shore The bay is famed for its ovsters

Lobster Name of the larger edible crustaceans. The foremost thoracle limbs have enlarged pincer-like claws

lobster, Astacus gammarus, averages 8 to 12 lb the American variety sometimes reaches 20 to 23 lb The larger clawless rock lobstor or crawfish, Palenurus rulgaris has a spiny carapace. The smaller Norway lobstor, Nephrops norvenious, has slender pincers

Lobworm Family of free marine seg mented worms living in sea shore mud and sands also called lugworm The common European Archicola piscatorum devoured by ground feeding fishes is a favourito angler s balt. Greenish or brownish, 8 to 10 in long, it bears 13 pairs of red tufts or gills Sand swallowed when burrowing, and ejected forms surface casts between tides

Local Government System by which counties. towns and other areas are given power to look after their own affairs. The amount of local government is laid down by law and varies

according to the importance of the area.

In England the most important measures regulating local government are those of 1834 (towns) of 1888 (counties), and of 1894 (urban and rural districts) A further important and rural districts) A further important measure was passed in 1929 Local government measure was passed in 1929 Local government is controlled by the Ministry of Health until 1919 called the Local Government Board Scotland and both parts of Ireland have their own systems of local government on very much the same lines as England The areas of the various districts are altered as required by the Ministry of Health, or in the case of large towns and cities, by act of Parliament.

Local Option Term used for the county, town or other locality is given the power to decide its own policy In connection with the sale of intoxicating liquor, local option has been in force in Scotland since 1920 There in every burgh or other area a poll will be taken if one tenth of the inhabitants ask for it and the electors vote with three issues before them They can decide on no licences whatever but in this case the majority in favour must be at least 55 per cent, they can decide on no change in the existing system or on a limita tion of 25 per cent. of licences Another poll cannot be taken until three years have clapsed Local option has been suggested in connection with the opening of cinemas on Sunday

Locarno Town of Switzerland It is on Lake Maggiore and has a station on the route through the St. Gotthard Pass to Italy Here in Oct., 1925, a conference of the European powers was held and a number of treaties known as the Bast of Locard. of treaties known as the Pact of Locarno were arranged, and signed in London on Dec. 1 One guaranteed the existing frontiers of France Called the Rhine Guarantee Pact, it was signed by Germany, Belgium, France Great Britain and Italy Others were signed between Czecho-Slovakia and Poland and France Treaties pro viding for the submission of all disputes to arbitration were made between Germany on the one hand and France Belgium Poland and Czecho Slovakia on the other It was decided that Germany should become a full member of the League of Nations

Loch Term applied to lakes in mountainous districts and to flord like inlets of the sea on the coast of Scotland A typical loch is a long narrow rock basin of considerable depth and characteristic of mountain valleys formerly subjected to glacial action By submergence of the lower reaches of the valley the loch may The common become an inlet of the sea.

## LOCHABER

Lochaber District of Inverness shire It is wild and mountainous, and contains Ben Nevis

Lochaber axe is the name of an axe much used at one time by the Highlanders of Scotland.

Lochgelly Burgh of Fifeshire A from Dunfermline by the LNE RIV. Pop (1931) 9297

Lochmaben Burgh of Dumfriesshire It is 8 m north east of Dumfries by the LMS RIV Near the town, which is situated on the Annan, are the ruins of a castle of Robert the Bruce Pop 1014

Lochy Lake, or loch and river of Inverness shire It is 10 m long and has been utilised for the Calcdonian Canal The river Lochy runs from the lake to Loch Linnhe

Lock Mechanical device for securing a door of a blding bolt moved by a key Locks have been in use since ancient times especially among the ancient Egyptians, and those of the Middle Ages down to the 18th century were often of great beauty of design In 1778 the double-acting tumbler lock was introduced and gave greater security than the common single-acting tumbler, then and still used for the cheaper kind of door locks A further improvement came with the Chubb detector lock with spring pressed tumblers, the Hobbs type with safety levers, and the Yale cylinder lock, a modern adaptation of the old Egyptian pin lock Keyless locks are worked by combinations of letters or numbers or open only at a given time

Lock Engineering device on canals or canalised rivers by means of which vessels may pass from one level of the waterway to another The lock consists of an enclosure with watertight gates at each end, sluices being provided to admit or discharge water When a vessel is passing from a higher reach to a lower one, the lower gates are closed and water admitted until the level within the lock rises to that of the upper reach The upper gates then are opened to admit the vessel and are again closed, while the sluices discharge the water in the lock until the lower level is reached, the vessel passing out on opening the lower gate The reverse process is followed for raising a vessel to a higher level

Locke John English philosopher Born Aug 29, 1632, at Wrington, Somerset, the son of a Purltan lawyer, he became a tutor at Ovford, and also studied medicine and practised there as a physician. In 1666 he became secretary and friend to the Earl of Shaftesbury From 1675 to 1679, and again from 1683 to 1689, he lived abroad, for political reasons, in France first and later in the Netherlands He was a Commissioner of the Board of Trade from 1696 to 1700, when he retared He died Oct. 28, 1704 In 1932 the tercentenary of his birth was celebrated.

Locke's philosophical ideas are set out in his *Escay Concerning the Human Understanding* In this he argues that all our knowledge is the result of experience, our beliefs in good or evil arise largely from the association of ideas As a political philosopher Locke ranks high also In his work *On Civil Government*, he developed the principlo that sovereignty depends upon contract, and so put the ideas that animated the Whigs in making the settlement of 1638 upon a philosophical basis. His works include a *Letter on Toleration*, his earliest

work, written in Latin and translated into English, Thoughts on Education and The Reasonableness of Christianity In reply to his critics he wrote further on these subjects

Locke William John. English novelist. he was educated at S John's College, Cambridge He became an architect, but later turned to literature, and in 1905 scored a success with The Morals of Marcus Ordeyne, followed by The Beloved Vagabond His works include The Joyous Adventures of Aristide Pujol, Stella Maris, Septimus and The Great Pandolfo In 1930 he issued a volume of short stories, The Town of Tombarel, and after his death appeared The Shorn Lamb He wrote a play The Man from the Sea, and adapted some of his novels for the stage Locke died in Paris, May 16, 1930

Lockerbie Burgh and market town of Dumfriesshire. It is 10 m from Dumfries and 76 from Glasgow, on the L.M S Rly, and is famous for its lamb fairs held in August There is an old tower, once used as a prison Pop (1931) 2574

Lockhart John Gibson Scottish author. Born July 14, 1794, he was educated at the High School, Glasgow, and at Balliol College, Oxford He became an advocate but earned his living by writing In 1825 he settled in London and was made editor of the Quarterly Review, a post he retained until 1853 Lockhart is known for his association with Scott. In 1820 he married Scott's daughter, Sophia, and in 1837-38 he published his Life of the novelist, which is a standard biography He also wrote lives of Burns and Napoleon Lockhart died at Abbotsford, Nov. 25, 1854

Lockjaw Infectious disease, also called tetanus (q v) Lockwood william Henry. English crioketer, playing for his own county and later for Surrey He soon made a reputation, both as a bowler and a batsman, and played for England against Australia in 1893, and again in 1899 and 1902 For some years he was the finest bowler in England, and one of the great all round players of the game He retired in 1904, and died April 27, 1932

Lockyer Str Joseph Norman English astonomer Born at Rugby,

Lockyer Sir Joseph Norman English astonomer Born at Rugby, May 17, 1836, he entered the Civil Service He studied astronomy and, while remaining in the service, became prominent as an astronomer In 1875 he was given a position in the science and art department at South Kensington, and in 1879 was made director of the solar physics observatory there In 1897 he was knighted, and he died at Sidmouth, Aug 16, 1920

and he died at Sidmouth, Aug 16, 1920
Lockyer was the head of eight expeditions that went out to observe solar celipses and his chief work, as an astronomer, was investigating solar phenomena He wrote a number of books, one being on the connection between sun spots and the weather

Locomotive Kind of engine used on railways and mostly belonging to the steam engine type. It has, as general characteristics, simple direct-acting engines on a rigid frame, a square furnace, long fire tubes, with the exhaust steam carried through a blast-pipe within the smoke box to produce a draught through the furnace. In modern locomotives devices for increasing and superheating the steam, heating the feed water supply, together with compound engines and

longer botters, have been introduced The "Rocket" of 1829 weighed under seven tons and drew a load of less than 20 tons, while some American locomotives weigh over 200 tons and draw a load of over 3000 tons

An electric locomotive may consist of a separate carriage containing the motor and control apparatus with either an overhead or track current, or the generator may be housed in a compartment of the carriage, a Diesel oil engine being used for generating the

current

Locomotor Ataxia Disease result ing from pro gressive degeneration of the nerve tissues of the spinal cord, occasioned by the parasite of syphilis, hereditary or acquired The muscular movements become unco ordinated, and the gait and station disordered Although the disease may not reach this stage for many years after infection, if at all, its presence is shown by the absence of knee jerks, sluggish ness of the pupils and shooting pains in the The sufferer may ultimately become a bed ridden paralytic

Locust Name of various short horned grasshoppers It usually denotes in Old World use the larger migratory forms of pachytylus, acridium and caloptenus In the meditorranean region and S Africa large swarms periodically obsoure the sun and deafen the ear with their rustling wings The ground laid eggs develop wingless forms which devour everything available The destructive migratory Rocky Mountain locust is a raleptenus

migratory Hocky Mountain locust is a caloptenus smaller than many British grasshoppers

The Imperial Institute of Entomology has done a good deal of work in investigating methods of dealing with the locust In 1932 it was reported that a scientific mission had discovered their breeding places in northern and central Africa Methods of destroying them that have been successfully tried include leading them that they have and those Hilling them leading them into pits and there killing them

by chemicals or fire

Locust Bean Pod of the carob tree and Italy, and is remarkable for the large proportion of sugar it contains Attempts have been made to grow it in S Africa It is ground into meal and is chiefly given to cattle that are being reared for food

Lode Term applied to a metalliferous vein which has become filled with ores and other minerals, or in some cases a lode may be a fault due to rock displacement. Lodes vary in width from a few feet to 100 feet and in

Lodge Sir Oliver Joseph English scientist
June 12, 1851, he became Assistant Professor
of Mathematics at University College in 1879 Professor of Physics at Liverpool in 1881, and in 1900 he was made first Principal of the new University of Birmingham, a post he held until

he was President of the British Association
As a physicist Lodge made important in
restigations in the field of electricity His
researches on the nature of the sound and electro magnetic waves were especially valuable, and helped to make wireless telegraphy possible Later he gave much attention to the pheno mens of spiritualism of which he became one of the leading exponents His books include Modern Views of Electricity, Life and Maller,
Man and the Universe, Ether and Reality and
Relativity On spiritualism he has written Ray
height of 19,514 ft.

The mond or Life and Death, The Survival of Man tons and Why I Believe in Personal Immortality, the first of these a memoir of his son Raymond.

killed in the Great War I odge Thomas Luglish dramatist. He was born about 1558, being a son of Sir Thomas Lodge, Lord Mayor of London He was educated at Merchant Taylors' School and Trinity College, Oxford, and afterwards studied at Lincoln's Inn He went on voyages of adventure across the Atlantic, but much of or agrenture across the Atlantic, but much of his time was spent in writing. He wrote several romances, one being Rosalynde which gave Shakespeare the plot of As You Lile II, as well as some poems and translations of Latin authors. His other works include a satire A Fig for Momus and a drama The Wounds of Cavile War With Nathaniel Greene he wrote A Looking Glass for London and England Lodge died about 1625

Lodger One who resides in the house of another and pays for his accom modation It has two legal significances A lodger, if of full ago is entitled to vote at parliamentary and other elections provided he has resided in the constituency for a period of three months immediately preceding the pre-paration of the register A creditor cannot seize the goods of a lodger if he levies a distress upon his landlord, whether it is for rent or for debts of any other kind

Odi City of Italy It stands on the Aqua, of Italy It stands on the Aqua, of Italy It stands on the Aqua, of Italy Italy It stands on the Aqua, of Italy Italy Italy Contury. rich agricultural district is the cathedral, dating from the 12th century On May 10, 1796, Napoleon won a victory hero over the Austrians, who were driven from their defence

Lodz Town of Poland It is on the River Lodka 75 m by railway from War-80.W Lodz is a centre for the manufacture of cotton and other textiles, also machinery. It has a broadcasting station (235 M., 2 kW) Pop (1931) 605,287

OCSS Yellowish fine grained sandy and coleareous learn It covers large areas in Central and South Lastern Europe and vast tracts in China, where it occasionally forms deposits 1000 ft. thick In the Rhine In the Rhine Valley the locss deposits are of fluviatile origin. but those in Northern China appear to be due to the action of wind

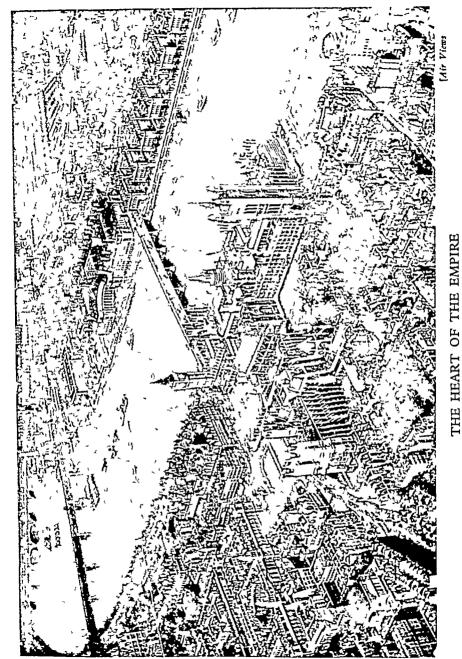
Lofoden Group of islands off the coast 1600 sq m and are divided into two groups Hindo is the largest island. The chief occupa tion is fishing for cod, but there is some farming, although the islands are mountainous and are within the Arctic circle Pop 47,000

oftus Urban district of Yorkshire (N.R.)
It is 22 m from Middlesbrough and LOITUS Itis 22 m from London, by the LNE Rly The 259 m from London, by the LNE Rly The 259 m from London, by the LNE Rly The

Log Nautical term for the appliance used to determine the speed of a vessel In its older form the log consisted of a piece of wood, triangular in shape attached to a line with knots at intervals of 50 ft This was towed behind the vessel and the speed estimated by the amount of line paid out in relation to an hour-glass The modern type of log has a spinning action which turns a pointer upon a dial

ogan Mountain in the north west territory of Canada It reaches a





An aerial view of the Thames at Westminster, showing the Abbey and the Houses of Parliament

N.S.E

Loganberry Hardy, prickly shrub of the rose order Derived from the European raspberry and a Californian labout 1900 Cultivated like the raspberry, it is 10 to 15 ft. shoots bear in the second year fruits larger, longer and more acid than the raspberry Loganberries are usually bottled and preserved.

Logogram (1) Word-sign, e.g, £ and b for pound, s for shilling, and for pence, sometimes pictorial, e.g, £ or bottled and preserved

Logan Rock Rounded boulder poised it readily oscillates with gentle pressure. A logan rock or stone is the result of weathering in situ, or may be a stranded boulder transported by ice. Logan stones occur in Cornwall, in Devonshire, and in Glamorgan at Pontypridd

Logarithm Index of the power to which a fixed number or base must be raised to be equal to a given number. Thus if 8 is the given number and 2 the base, the logarithm of 8 is 3, as  $2^3 = 8$  By the use of logarithms arithmetical calculations may be greatly shortened and for ordinary may be greatly shortened and for ordinary purposes common logarithms having 10 as the base are used A logarithm usually consists of a whole number or characteristic, and a decimal fraction or mantissa, the latter only being given in tables of logarithms

Loggia Roofed, elevated structure open on one or more sides, but forming a part of a building It is characteristic of Italian architecture, and often incorporated in the design of English country houses

Logia Greek word, "sayings," used as the title of an ancient collection of oracles or discourses concerning our Lord Several 2nd-century writers mention such a collection, and the word sometimes denotes the conjectural document, often called Q, apparently used by S Matthew and S Luke The word is also applied, rightly or wrongly, to two Egyptian papyrus fragments discovered at Oxyrhynchus in 1897 and 1903, professedly containing Sayings of Jesus, and two fragments of lost gospels of similar origin of lost gospels of similar origin

Logic Science of reasoning, or the science of the laws of thought The earliest and most influential system of logic was that laid down by Aristotle in his Organon. The study was revived by Abelard and other early scholars and logic has been taught in the universities since their day. A new direction was given to it by the Novum Organum of Francis Bacon.

Logic may be divided into inductive and deductive Induction is reasoning from the universal, deduction is Logic may be divided into industry deductive. Induction is reasoning from the particular to the universal, deduction is reasoning from the universal to the particular. The products of thought are the term, the proposition or premise and the inference or conclusion. Reasoning takes the form of the syllogism which is in three parts, two state ments and a conclusion. Thus a syllogism may be

All men have beards. A is a man Therefore A has a beard.

All men have beards. A has a beard, Therefore A is a man

The first syllogism is correct, but the second is incorrect, the fallacy being what is called an undistributed middle A may be a monkey because the first premise does not say that all the property has been also been as the college of the college men, but no other animals, have beards

Logos Greek term, "word," employed in Heraclitus and the Stoics used it for the manifestation of the godhead in reason Later Jewish thought regarded Wisdom as a divine attribute, both streams nourished the Logos doctrine of Philo S John defined the Logos as the Word of God incarnate (John i)

Logue Michael. Irish prelate Born in Co Donegal, Oct. 1, 1840, he was educated for the priesthood of the Roman Catholic Church and was ordained in 1866 He was made Bishop of Raphoe in 1870 In 1887 he was chosen Archbishop of Armagh and Primate of all Ireland, a post he retained until his death, Nov 19, 1924 In 1893 Logue was made a cardinal

or a Central Logwood Heartwood of a Central American evergreen leguminous tree (Hacmatorylon campechianum) Imported in large billets, brownish-red externally, it contains a glucoside forming with metallic mordants blue and black dyes, used in textile dyeing and printing, and in ink-making Its tannic acid is medicinally a mild astringent.

Lohengrin Hero of German legends. The son of Parsifal, he was one of Arthur's knights Arthur sent him on a swan to rescue a maiden named Elsa He did this and then married Elsa, but was taken from her by the swan, because, contrary to command, she had persuaded him to tell her whence he came The story is the subject of a 13th century poem and around it Wagner wrote an opera

Lohr Marie. Australian actress Born in Sydney, July 28, 1890, she made her first appearance on the stage in 1894 In 1901 she came to London and made a reputation by acting with the Kendals, Sir H B Tree and Sir John Hare From 1918 to 1925 Miss Lohr managed The Globe Theatre, London, where she produced A Marriage of Convenience and other plans Convenience and other plays

River of France, the longest in the Loire River of France, the longest in the country It rises in the Cévennes and flows past Orleans, Blois, Tours, Nantes and other places to the sea at S Nazaire It is over 600 m. long and is famous for the chateaux that have been built on its banks. Its tributaries include the Allier, Indre and Vienne It gives its name to two departments of France, Loire and Loire Inférieure

Loki In Norse mythology, a giant personi-fying destructive fire His offspring were the Midgard serpent, the wolf Fenns and the evil Hel After he had caused Balder's freed by death the gods bound him to a rock, freed at Ragnarok, he and Heimdal slew each other

Lollards Name given to the followers of John Wycliffe They arose towards the end of the 14th century, objected to prayers for the dead, celibacy and other church ordinances, attacked the wealth and indolence of the clergy and became a political party Laws were passed against them and, during the reigns of Richard II and of Henry

The word comes from the the Reformation Dutch lollen, " to sing in a low voice"

Lombard Poter Italian scholar Born at Novara about 1100, he studied at Bologna and Paris He was influenced by Abelard and became a teacher of theology in Paris In 1150 he was made a bishop of Paris and he died there, July 20, 1160

Lombard is known as the author of an early work on theology Libri quatuor Sententiarum or Four Bool's of Sentences It was very popu

lar in the Middle Ages
Lombards People of Europe, also called the Langebardi, or long axes Their first home was in Germany, but about 470, under Albein they invaded Italy and conquered much of it, including the district still called Lombardy They had their own dukes or kings and formed an independent duchy or kingdom, the kings wearing the famous iron crown They were in general hostile to the popes and in 774 they were defeated and subdued by the Pope's ally, Charlemagne

Lombard Street Street in the city goes from the Bank of England to Gracechurch Street. It is named from the Lombards who lived here in the 12th century and since then has had a close connection with finance and At present several of the great banks have offices in the street and the name is sometimes used for the money market

Lombardy District of Italy In the lies between Pledmont and Venetia and covers over 9000 sq m Milan is the capital. Except in the north, Lombardy is flat and very fertile with much beautiful scenery, especially around Como, Garda and other lakes its round Como, Garda and other makes the chief rivers are the Po, the Oglio and the Ticino Named after the Lombards, it was ruled by the dukes of Milan but later passed to Spain and then to Austria In 1859 it was given to Sardinia and in 1861 was included in the new kingdom of Italy

Lombardy Poplar Tall ornamental tree of the wil low order (Populus fastigiata) Inhabiting Persia and N W India from remote ages reaching 100 150 ft, Lombardy apparently received it in post classical times, and it spread Inhabiting Its thin erect branches occasion a thence cypress like aspect much appreciated as a contrast to flatter vegetation. It has no It has no economic value

of the Dutch East It lies to the east of Lombok Island Indies Java and covers 3060 sq m On it are some high mountains but the soil in the valleys is fertile and produces rice, maize tobacco etc Mataram is the chief town It is governed from the island of Ball, separated from it by the Strait of Lombok 1 802 146 (1930) Pop (with Bali),

ombroso Cosare Italian Verona Italian scholar Nov 18. 1836, he studied medicine, and in 1862 was made Professor of Mental Diseases at Pavia Later he was director of an asylum at Pesaro and Professor of Forensic Medicine at Turin He died Oct. 19, 1909

In 1875 Lombroso published a book, L'Uomo

IV, they were persecuted and a number of Delinquente, which started the science of them were put to death The party died out criminology and on which his famo rests towards the end of the 15th century, but Later came The Man of Genues, The Female undoubtedly its teaching prepared the way for Offender and Crime, its Causes and Remedies. These have been translated into English also wrote on spiritualism

> Scaport of Togoland, the capital of Lome the French colony There are facilities for shipping Formerly under German rule, on Aug 7, 1914, it was taken by the British

> Lomond Loch or lake of Scotland The largest in the country, it lies between the counties of Stirling and Dum barton and covers about 27 sq m The Leven and then the Clyde tale its waters to the sea-The scenery on and around the lake is very beautiful and it is much visited by tourists. On the loch are many islands, the largest being Inchmurrin Ben Lomond overlooks the lake on the east side

> London Capital of England and of the British Empire, also a scaport and a financial, manufacturing and trading centre It stands on the Thames the city proper being on the north bank. It covers a good part of the County of Middlesex and extends into Surrey, Kent, Hertfordshire, Essex and Buckinghamshire

> The original London, still called the City occupies about a square mile (677 acres) on the north side of the river Around it is the County of London, created in 1899, consisting of the city and 28 other boroughs and covering 116 sq m Outside this is an vaguely called Greater London Outside this is another district The bound aries of this are uncertain and it is continually extending It may be regarded as the district within a radius of 15 m each way from Charing Cross, covering something like 700 sq m. The area served by the Metropolitan Water Board covers 574 so m

> London possesses many buildings of historic and other interest, among them St. Paul's Cathedral, Westminster Abbey, Southwark Cathedral the Roman Catholic Cathedral at Westminster, The Temple Church and St. Margaret's Westminster The Houses of Parliament are a fine pile overlooking the Thames, and near is the hall of the London County Council The Tower of London is unique Buckingham and St James's palaces are in the heart of London On its outskirts are Kew and Hampton Court palaces, Kensington is midway, Lambeth and Fulham are opiscopal palaces Greenwich and Chelsea hospitals and the group of buildings in and around the Temple have great historic interest

> The headquarters of the Bank of England, the Guildhall, the Mansion House, the Charter house and other historic buildings are in the The principal theatres are near Charing city Cross Other places of amusement include the Crystal Palace Madame Tussaud's in Baker Street, and various fine cinema halls in and around Leicester Square and the Strand

> The largest of the central open spaces is Hyde Park and near it are the Green and St James s parks Richmond Park and St James a parks Richmond Park and Greenwich Park are crown property, and Hampstead Heath is the largest of scores of open spaces under the control of the London County Council In Regent's Park are the zoological and botanical gardens A series of bridges cross the Thames, the lowest being the Tower Bridge, below which are the docks for the shipping controlled by the Port of London Authority

Although the great public schools have nearly all been removed to the country, London is a great educational centre. It has a university, connected with which are colleges sists of 36 colleges and schools, the chief being statement of the country of the chief being statement. of every kind The London County Council maintains hundreds of schools and many endowed schools are in the suburbs For more specialised education there are several polytechnics

The city of London is governed by a lord mayor and corporation, as it has been for mayor and corporation, as it has been for 600 years and more. The county has a county council, comprising chairman, 20 aldermen and 124 councillors. The councillors are elected every three years. The term of office for aldermon is 6 years and 10 retire every 3 years. Outside its area are many boroughs and urban districts such as Croydon, Richmond, Welthenstow. Testenbara and others.

Walthamstow, Tottenham and others
The greatest manufacturing and distributing

city in the world, London's factories and work shops produce goods of almost every kind snops produce goods of amost every kind Fancy goods, furniture, clothing and foodstuffs are prominent, but motor cars and other heavy articles are also made The city of London i-the headquarters of the world's financial system and in it the banks and financiers of

every nation are represented.

overv nation are represented.

London is the centre of the country's railway system and contains the great termini of Paddington, Waterloo, Charing Cross, Euston, Marylebone, St Paneras, King's Cross and Liverpool Street The electric railways are shiefly underground tubes There are canals and the river below the Tower Bridge has tunnels for foot passengers and vehicles There are airports at Waddon and Hanworth London is the broadcasting centre for the British Isles London Regional broadcasts are London is the broadcasting centre for the British Isles London Regional broadcasts are made on a wave length of 342 1 M., London National on a wave length of 261 1 M. The population of the county in 1931 was 4,396,821 and of Great London, 8,202,818

London City of Ontario It is on the Thames, 120 m from Toronto and is served by the two transcontinental lines, CNR and CPR There are a number of manufactures and here are railway repairing shops It has two broadcasting stations (62 56 M and 34 68 M) Pop (1931) 71,022

London Declaration of International naval agreement It was drawn up at a conference held in London in 1008 00

up at a conference held in London in 1908 09 and dealt with the law about blockade and other matters that arise in time of war. All the great naval powers signed it, but as it had not been ratified when the Great War began, its provisions never became operative

London Port of Term used for the part of the controlled by a body called the Port of London Authority, which has its office in Trinity Square, E C 3 It consists of a chairman, rice-chairman and mombers chosen by various interests, such as the London County Council and the Board of Trade It controls the tidal waterway of the Themes between Havengore Creek in Essax and Teddington

Creek in Essex and Teddington

The authority was created in 1909 when it bought the London docks from various companies for about £32,000,000

It has added to these and the dock area is now about £300 acres

The largest docks are the Surrey Commercial, the West India, the Millwall, the East India, the Royal Victoria and Albert, the King George V and those at Tilbury

Later it became a teaching body also and in 1900 it was reorganised The university con-1900 it was reorganised. The university consists of 36 colleges and schools, the chief being University College, Gower Street, and King's College, Strand Others are the Imperial College, Strand Others are the Imperiat College of Science and Technology, the London School of Economics, Birkbeck College, East London College, Bedford College and the Royal Holloway College Recent additions are the Constauld Institute of Art and the Institute of Historical Research. The organisation also includes several medical schools and theological colleges It is governed by a chancellor, and vice-chancellor, chairman of convocation and The headquarters are in the Imperial Institute, South Kensington, but new buildings are planned on a site in Bloomsbury The university has athletic grounds at Motspur Park, near Worcester Park, Surrey

I and Jack American novelist Born 1978

London Jack American novelist Born in San Francisco, Jan 12, 1876, he started upon a career of adventure by digging for gold in Klondike Afterwards he travelled over a good part of North America on foot, worked as a seaman and, in 1904 05, London served as a war correspondent in Manchuria About 1900 he began to write and his books became very popular He put into them much of his own adventurous career and a remarkable knowledge of certain forms of animal life They include A Daughter of the Snows, The Call of the Wild, White Fang, Martin Eden, The Mating of the Elsinore and Night Born He died Nov 22, 1916

London Gazette The Official orgovernment It appears twice a week, on Tuesday and Friday, and contains procla-mations and official announcements generally

mations and official announcements generally For Scotland a similar purpose is served by The Edunburgh Gazette and for Northern Ireland by The Belfast Gazette.

London Wuseum Collection of obthe history of London The objects are arranged in chronological order and begin at very early times They cover every phase of London life not even directly and the London life, not excluding dress, toys and the like The Museum was founded in 1912 and is housed in Lancaster House, presented to the nation by the 1st Viscount Leverhulme

Londonderry County of Northern ireland In the province of Ulster, it has a coastline on the north and covers 816 sq m The land is fairly level except in the south The Roc, Foyle and Bann are the chief rivers The chief town is Londonare the chief rivers The chief town is London-derry Other places are Coleraine, Limavady and Dungiven Castlerock, Port Stewart and Downhill are watering places The old name of the county was Derry, still frequently used London was prefixed to it in 1609 when the corporation of the city acquired large estates therein Pop (1926) 94,511

Londonderry City, seaport and market town of Co Londonderry, Northern Ireland, also the county town It stands on the Foyle where it falls into Lough Foyle, 95 m from Belfast There are some industries, among them flour milling, bacon curing and linen manufacturing, but shipping also is important From here produce

Commercial, the West India, the Millwall, the East India, the Royal Victoria and Albert, the King George V and those at Tilbury

London in London It was founded in

20 years

troops of James II in 1689, an event still; commemorated in the city Pop (1920) 45,159

Londonderry Marquess of British
of Vane Tempest Stewart In 1789 Robert Stewart, an Irish landowner, was made a baron and in 1816 Marquess of Londonderry His and in 1816 Marquess of Londonderry His son was the politician known as Viscount Castlereagh (q,v), who became the 2nd marquess His half brother, Charles William, the 3rd marquess, married the heiress of the families of Vane and Tempest and secured their estates in Durham and Yorkshire Frederick William, the 4th marquess, who succeeded in 1854 had been an MP for over

In 1884 Charles Vanc-Tempest-Stewart be In 1884 Charles Vano-Tempest-Stewart became the 6th marquess He was Lord Lieu tenant of Ireland 1886 89, and as a Unionist politician was Postmaster General, 1900 02, and President of the Board of Education, 1902 05 He died Feb 8, 1915 when his son, Charles Henry, became the 7th marquess He was an M.P., 1906 15 In 1921 he became Minister of Education for Northern Ireland. Minister of Education for Northern Ireland, a post he held until 1920 In 1928 29 he was a post ne neid until 1920 In 1928 29 ne was
in the Unionist ministry as First Commissioner
of Works and in 1931 he became Secretary for
Air in the national government The scats of
the marquess are Wynyard Park, Durham, and
Mount Stewart, Co Down His eldest son is
called Viscount Castlereagh

London Pride Hardy peronnial herb of the saxifrage order, native in Ireland and S.W. Europe (Saxifraga Naturalised throughout Britain an umbrosa) old favourite in cottage-gardens and rockeries, especially in moist situations, its rosettes of tough, ovate, coarsely toothed, stalked leaves, 1\(\frac{1}{2}\) in across, surround a single leafless 6-12 in stalk bearing small white \(\frac{1}{2}\) in flowers, sometimes red spotted

ondon Stone Fragment of an ancient in the wall of S Swithin's Church, Cannon Street, London It is supposed to be a portion of a Roman miliarium, or the centre from which distances were measured on the roads in Roman Britain In support of this hypothesis there is, however, no direct evidence

Long sea loch, opening on the west coast between the counties of Argyll and Dumbarton It penetrates for 17 m into the land

Long Viscount English politician Walter Hume Long was born July 13, 1854, at Bath, was educated at Harrow and Christ Church Oxford and inherited estates in Wiltshire He began his parliamentary career in 1880 as Conservative member for North Wiltshire, and although he changed his constituency several times, he retained his seat in the House of Commons until 1921, when he was created a peer He was President of the Board of Agriculture, 1895 1900 and of the Local Government Board, 1900 05 In 1905 he was for a short time Chief Secretary for 1905 he was for a short time Chief Secretary for Ireland In 1915, under the Coalition ministry, he was again President of the Local Government Board, in 1916 Colonial Secretary, and in 1919 21 First Lord of the Admiralty He died Sept 26, 1924, having been created Viscount Long of Wraxall in 1921 He lost his elder son, Brig-Gen Walter Long, C M G, D S O in the Great War, and was succeeded in his title by his grandson

Longbenton Urban district of Nor thumberland, also known

as Benton It is 4 m from Newcastle and 273 m from London by the L N E Rly Here as Benton are stone quarries and coal mines (1931) 14,072 Pop

Longchamps Racecourse of Paris It is in the Bois de Boulogne and here the race called the Grand Prix is run There are slight remains of an abboy here

William de Longchamps was chancellor of England in the time of Richard I Jan 31, 1197

Longcloth Plain cotton fabric It was pleces, hence its name Longcloth usually in long pleces, hence its name Longcloth usually is bleached and is of heavier quality than cambric It is used chiefly for making shirts and underclothing, the lower grades being woven from American cotton and the finer qualities from the best Egyptian cotton

Long Eaton Urban district and mar-Let town of Derbyshire. It is 7 m from Nottingham, on the L MS Rly The town is a centre of the lace manufacture and has engineering works and other industries Pop (1931) 22,339 Little Enton is a village 3 m from Derby, on the L M S Rly

on the LMS Rly

Longfellow can poet. Born at Portland, Maine, Feb 27, 1807, the son of a lawyer, he was educated at Bowdoin College, New Brunswick There, in 1829 he became Professor of Languages after three years study in Europe In 1836 he moved to Harvard to become Professor of Modern Languages and Belles Lettres There he remained until 1854 when he retired He died at Cambridge Mass, March 24, 1889 March 24 1882

Longfellow is America's most popular poet, and enjoyed almost equal popularity in Britain He excelled in narrative poems, expressed in simple and exquisite language. His greatest work is probably the unique Song of Huawatha, Evangeline and The Golden Legend coming next Tales of a Wayside Inn may also be mentioned His short poems include such favourities as A Psaim of Life, Excelsor and The Village Blacksmith He translated Dante's Divine Comedy and pieces from German poets

Longford County of the Irish Free State
Longford In the province of Leinster,
it covers 420 sq m The Shannon forms its
western boundary Longford and Granard are
the chief towns The soil is fertile except in the north where there are bogs, cattle and horses are reared The Royal Canal passes through the county Pop (1926) 39,847

The title of Earl of Longford has been borne since 1785 by the family of Pakenham The fifth earl was killed in Gallipoli in 1915 The Earl lives at Pakenham Hall in Westmeath and his eldest son is called Lord Silchester

Longford Market and county town and urban district of the county of the same name, Ireland It is 75 m from Dublin, on the River Camlin and is served by the Gt Southern Rlys Here are tanneries and corn mills Pon 3760

Corn mills Pop 3760

Longford Village of Wiltshire It is on Salisbury Here is a castle built in the 16th century and restored in the 19th It contains a woodsful collection of pictures and is the a wonderful collection of pictures and is the seat of the Earl of Radnor

Longhorn long down-curved or up English breed of cattle with

Especially developed in 18thturned horns century Leicestershire they became widespread in Britain, being gradually displaced as short-horns improved The prevailing colour is black or brown, with a white stripe down the back They are good beef cattle, and the cows fair milkers

Long Island Island of the United It lies close to the east coast and is part of the state of New York The East River divides it from Manhattan on which the city of New York stands and Long Island Sound is an opening on its north side It is 118 m long and covers 1680 sq m Long Island has become practically a suburb of New York On it are Brooklyn, which is part of the city, also Coney Island and other pleasure resorts It contains golf courses, race courses, country clubs, motor tracks, and race courses, country clubs, motor tracks, and aviation grounds Some part of it is cultivated, but much of it is woodland. It has two broadcasting stations (62 5 M and 34 68 M)

Longitude Term applied to the angular distance of the meridian of a place from some given meridian That of Greenwich Observatory is the usual one adopted For geographical purposes the earth's surface is divided into circles of longitude, and distances in degrees are numbered east or west of the meridian of Greenwich

Longleat Residence of the Marquess of Bath It is in Wiltshire, 3 m from Warminster, and is one of the finest houses in the country It is in the Italian style and dates from the 16th century, but additions were made in the 19th Features of the house the bell and a picture relieve the century. are the hall and a picture gallery which contains a priceless collection of portraits

A priceless collection of portraits

Long Parliament Name used for the parliament that carried on the Civil War It met on Nov 3, 1640, and was responsible for the policy that led to the war, for the appointment and dismissal of the generals and the execution of the king It instituted many constitutional changes, but most of them were temporary only In 1649 the Presbyterian members were expelled, but the others remained sitting until April, 1653, when Cromwell turned them were expelled, but the others remained sitting until April, 1653, when Cromwell turned them out. In May, 1659, the surviving members were again called together and the parliament sat until dissolved on March 16, 1660 William Lenthall was speaker of the parliament from 1640 to 1653 The acts of the Long Parliament after 1649 being unconstitutional are not as after 1642, being unconstitutional, are not on the statute book

Longport Variety of English chinaware It takes its name from Longport, near Burslom, where it was made in the 18th and 19th centuries It is a porcelain with a hard transparent body beautifully decorated

Longridge Urban district of Lanca-Preston, on the LMS Rly The main in-dustry is cotton spinning Pop (1931) 4158

2 1

بنز الم 岱 Longton District of Stoke on-Trent On the LMS Rly, it is a centre of the pottery industry, and was a separate borough until it was incorporated in 1910 with Stoke-upon-Trent (an)

when he died in 1802 In 1807 Sir William Lowther was made Earl of Lonsdale and from him the present earl is descended Hugh Cooll Lowther, who, in 1882, became the 5th carl, has won a great reputation as a sportsman His seat is Lowther Castle, Penrith

Lonsdale Frederick English dramatist. to write for the stage and soon became known His successes include The as a dramatist King of Cadonia, The Best People, Maid of the Mountains, The Last of Mrs Cheyney and Canaries Sometimes Sing

Canaries Sometimes Sing

Looe Urban district, seaport and watering
place of Cornwall It stands where
the River Looe flows into Looe Bay, 16 m
from Plymouth on the GW Riv There is
shipping and fishing, the sands and bathing
are good and there is some yachting Looe
Island in the river was once famous for its
smugglers Pop (1931) 2878

Loofah Vegetable bath sponge It is
of various species of tropical annual climbing
herbs of the gourd order, notably in Egypt and
Japan Sometimes 2 3 ft long, a tough
fibrous network encases the seeds These
having been macerated and the cuticle removed,
the fibre serves as a flesh brush the fibre serves as a flesh brush

Loom Machine used for weaving textile fabrics. In the simplest form of weaving one set of threads running the whole length of the fabric and known as the warp, is manipulated so as to pass alternately over and under a crosswise set known as the weft The simple handloom has been replaced by the power loom first introduced by Cartwright in 1785-87, and a further improvement was effected when automatic action was introduced

effected when automatic action was introduced by Jacquard, about 1801

Looping Term in aeronautics for a manoeuvre used chiefly for display In it, after the aeroplane has dived, it turns over in a circle or loop the pilot sitting on the inside of the circle In a variation of this feat, the inverted loop, the movement is in the opposite direction with the pilot on the outside outside

LOOS Village of France It is 3 m from Lens and is a coal mining centre It was destroyed during the Great War, but has

since been rebuilt
Battle of Loos The village gives its name
to a battle of the Great War, fought Sept.
25-Oct 13, 1915 The object of the Allies
was to recover Lens and the surrounding
coal mines from the Germans The main attack
was made between Lens and La Bassée, by a
British and a French army, with subsidiary
movements elsewhere The advancing troops
at first, very successful Loos itself was since been rebuilt Battle of Loos movements elsewhere The advancing troops were at first very successful, Loos itself was entered by a London division and the German front was broken, but for several reasons the gains could not be held On the next day (Sept. 26) German reserves arrived and there was some flerce fighting, which continued on the 27th Incidents were the attack of the Foot Guards on Hill 70 and the French attempts to take Souchez. The bettle French attempts to take Soucher The battle proper ended on the 28th, but there was a good deal of fighting until Oct 13 Some of the gains, including Loos, were retained by the Allies, but at a tremendous cost The British lost perhaps 60,000 out of 250,000 ongaged borough until it was incorporated in 1910 with Stoke-upon-Trent (qv)

Lonsdale Earl of English title borne In 1696 Sir John Lowther, a rich baronet in Cumberland, was made a viscount, but the title became extinct in 1750 His estates came to Sir James Lowther who, in 1784, was made Earl of Lonsdale, but this title became extinct

The purple loosestrife (L salicaria) is common

It is, on river banks and in marshy places 4 or 5 ft in height with branching stems lance shaped leaves and spikes of brilliant purplish flowers Another variety is L vulgaris which boars clusters of yellow flowers

City of Spain Orca City of Spain It is 41 m from Murcia and has some old buildings, including a Moorish castle Lead and silver are found in the neighbourhood Murcla is a manufacturing and trading centre, and around the old town are modern suburbs 74,700

Lord Title of honour In Great Britain it is used for all peers, earls, viscounts and barons are addressed informally as Lord so and so Another kind of lords are the law lords, who hold life pecrages Bishops as lords of parliament are also addressed as "my lord" in Scotland judges of the upper house of the

court of session are known as lords, although they do not sit in Parliament, and the younger sons of dukes and marquesses are addressed as lord with the Christian name Lord of the manor is a territorial distinction, not a title, a variant is the Scottish laird. The feminine not a title, of lord is lady

ord Advocate Chief law officer of the crown in Scot He is usually an advocate of distinction and corresponds to the attorney general in England He is a member of the ministry, usually with a seat in the House of Commons His office is in Edinburgh and he is responsible for public prosecutions in Scotland

Lord Chamberlain Officer in the house hold of Great Britain He has charge of the king's household above stairs and ranks immediately next to the lord steward. He is invariably a peer, and until the time of George V was a member of the ministry. The lord chamberlain also acts as the censor of plays a duty he took over in 1624 from the master of the revels The symbols of his office are a white wand and a key The queens household also has a lord chamberlain

Lord Chief Justice Name given to of the king s bench division of the high court of justice. He ranks next to the lord chancellor and is usually made a peer on appointment. A similar office exists in other English speaking countries in the United States the supreme court is under a chief justice

Great Chamberlain Lord

Officer of state in Great Britain sixth great officer of state, but his duties have mainly passed to others He is the keeper of mainly passed to others. He is the keeper of the palace of Westminster and has duties at the opening of parliament and the coronation The office was long held by the great family of de Vere It is now held by the Earl of Ancaster the Marquess of Cholmondely and the heirs of the Marquess of Lincolnshire each acting for a reign The Marquess of Lincolnshire was lord great chamberlain when George V became great chamberlain when George V became king, on his death it was decided that his son in law Viscount Lewisham, should under take the duties

High Chancellor High official in Great Britain The keeper of the great seal ranking just after the Archbishop of Canterbury, he is a member of the government of the day and by virtue of his position is president of the House of Lords, both as a legislative and as a judicial body He reads the

king's speech when the king is not present and is the head of the judicial system His duties are to advise the king about the appointment of judges and magistrates and on matters concerning the administration of justice The office originated in very early times CHANCEI LOR

Lord High Steward in England cer of state. The office is a very old one-the was originally concerned with looking after the royal table but now has duties only at a coronation or the trial of a peer There is no regular holder of the office but when either occasion arises a lord steward is chosen

Lord in Waiting Nobleman in at-king They are six in number and take it in turns to be in attendance Until 1924 they were members of the political party that was in power and were changed with every change of government To day three of them are politicians and three are not.

Lord Keeper In England, until the the great officers of state He was the keeper of the great seal and as such acted as the deputy or assistant, to the lord chancellor

Lord Lieutenant official who rereign in each of the counties of England, Wales, Scotland and Northern Ireland Formerly they raised men for defending the country and later they were given charge of the militia When the army was remodelled in 1907 the lord licutenant became the president of the county association of the territorial force. He is appointed for life and appoints deputy lieu tenants to assist him He is also the keeper of the records, or custos rotulorum for the county. The appointment is for life. There was a lord lieutenant of Ireland until 1922

Lord Mayor Title of the chief magis-and other cities of England and Wales London has had a lord mayor since early times; he is elected every year from among the aldermen, and is usually made a baronet on retirement. During his term of office he lives at the Mansion House The day of his installation Nov 9, is marked by a procession through the streets of London called the Lord Mayor's Show, which has been held since 1215 In the evening there is the banquet at the Guildhall at which leading statesmen

usually speak York has has had a lord mayor for several centuries but the other holders of this title have been granted it by the king since 1887 These include Birmingham Burford, Bristol, Leeds Liverpool and Manchester, Norwich and Sheffield Loicestor, Northingham, Portsmouth and Stoke were given the honour In 1928 In Scotland the corresponding title is lord provost.

Lord President of the Council. one of the great officers of state. He presides over meetings of the privy council, but has few other duties. He is smally a politician and a member of the Cabinet and the custom has grown up of giving the office to a senior member of the cabinet and the custom when the cabinet are smaller to the cabinet and the custom has grown up of giving the office to a senior member of the cabinet and the c of the ministry who is free to undertake duties of a general nature. In the Labour, ministry of 1929 31 Lord Parmoor, leader of the Government in the House of Lords, was lord president, in the National Government formed in 1931 the

post was given to Mr Stanley Baldwin, and in the reconstructed Cabinet of June, 1935, to Ramsay MacDonald who retained it after the Election in Nov 1935

Lord Steward Official of the royal household He is

Lord Privy Seal In Great Britain state He was the keeper of the kings privy seal and his duty was to affix this to the necessary documents. These were then passed on to the lord chancellor, or the lord keeper, for the great seal to be impressed upon them These duties ended in 1884

To-day the lord privy seal is a member of the Cabinet without departmental duties In the Labour ministry of 1929-31, the lord privy seal was given the task of dealing with unemployment. Viscount Halifax was appointed Lord Privy Seal in 1935

Lord's Cricket ground in London. It is in S John's Wood, belongs to the M.C.C (Marylebone Cricket Club) and is regarded as the headquarters of the game Middlesex home matches are played here also test and other important matches such as Oxford and Cambridge, and Eton and Harrow It takes its name from Thomas Lord, who founded it in 1814

House of Upper house of the legislature of Great Britain, Lords also the supreme court of law It arose from the council of barons summoned by the king to advise him on affairs of state. After a time the greater barons separated from the lesser the greater barons separated from the lesser barons and the commons, and with the bishops and abbots became the House of Lords, but the term itself was not used for it until 1544

To-day the house consists of two classes, the lords temporal and the lords spiritual The former number some 700 and are divided into five classes, the lords temporal and the lords spiritual the former number some 700 and are divided into five classes, dull or manuscase and the lords temporal and temporal and temporal and temporal and temporal and temporal and temporal

into five classes, dukes, marquesses, earls, viscounts and barons The latter consists of the 2 archbishops and 24 bishops In addition there are a few law lords who are peers for

life only

The basis of membership is heredity member, save only the bishops and the law lords, is the holder of an hereditary title, which carries with it the right to a seat in the House Peeresses in their own right are not of Lords Pecresses in their own right are not allowed to sit The speaker, or chairman of the House, is the lord chancellor and his deputy is the chairman of committees Its procedure is very like that of the House of Commons Some members of the Cabinet sit in the House of Lords but of left reserved. in the House of Lords, but of late years the number of these has decreased

number of these has accreased

For a long time the houses, Lords and
Commons, were equal in power, but, in the
time of Charles II, the power of the Lords over
finance was definitely curtailed In 1911, by
the Parliament Act, the House was made
subservient to the House of Commons Now it can only delay, not utterly reject, legislation passed by the Commons From time to time proposals for reforming the House of Lords, generally by introducing an elective element, have been put forward, but, so far, none has been accepted

Lord's Day Observance Society

Lord's Prayer Model of prayer given ciples (Matthew vi , Luke xi ) The Revised Version omits Matthew's doxology, a liturgical Version omits Matthew's doxology, a liturgical addition of Jewish origin, adopted in the 1st-2nd century Teaching of the Treetee Apostles The prayer appeared in early Christian liturgies The Anglican Prayer-book are at 13 S Swithin's Lane, IC C 4

ord Steward Official of the royal responsible for the management of the household below stairs, ie, all that concerns the catering and domestic arrangements of the royal residences Until 1924 the office was held by a politician and the holder resigned with other members of the ministry Many of the duties formerly discharged by the lord steward are now undertaken by the master of the household

Loreburn Earl British politician Robert Threshie Reid was born April 3, 1846, a son of Sir J T Reid, and was educated at Cheltenham College and Was educated at Chertennam College and Balliol College, Oxford, where he played cricket for the university He became a barrister, was elected Liberal M.P for Hereford (1880) and in 1886 was returned for his own county, Dumfriesshire In 1894 Reid was made solicitor general and then attorney. general, but he was out of office from 1895 until 1905 In that year he was chosen lord chancellor and created a baron. In 1911 he was made an earl and in 1912 he retired from active political life He died Nov 30, 1923, when his title became extinct.

Loreto City of Italy It is near the coast famous place for pilgrimage The object of The object of tamous place for phyrimage The object of veneration is the Santa Casa, or "sacred house," a building said to have been the home of the Virgin Mary at Nazareth, miraculously transported here The building is protected by a marble screen Over it a fine Renaissance church has been built Pop 8000

Loretto Scottish public school It is at Musselburgh, 6 m from Edinburgh, and was founded by H H Almond in 1861 There is accommodation for about 200 boys The school is famous for its output of Rugby footballers and its Spartan regime

Lorient Seaport and naval station of France It stands on the coast of Brittany, 30 m from Vannes, and has yards for building and repairing warships, works for making guns and armour, barracks and other establishments Lorient was formed in 1664 by the French East India Company, hence the name, which means "the East" Pop 42,853

orimer John Henry. Scottish painter Born at Edinburgh in 1856, the son of Professor James Lorimer, he was educated there and studied art at the Royal Scottish Academy He began as a portrait painter, but later made a reputation with his subject pictures In 1900 he was made a member of the Royal Scottish Academy

Lorimer Sir Robert Stodart Scottish Born Nov 4, 1864, he was educated at the University of Edinburgh, became an architect and won a reputation chiefly in domestic works. His later genius is well seen in the national war memorial genius is wen seen in the national war memorial in Edinburgh Castle and the chapel of the Knights of the Thistle in S Giles Cathedral Edinburgh His honours included a knighthood (1911) and membership of the Royal Scottish Academy He died Sept 13, 1929

Lorne District of Argyllshire It lies stands on the Fowey, 21 m from Truro, on the coast. The Firth of Lorne separates it from the Island of Mull The eldest son of the Duke of Argyll is called the Marquess of Lorne

Lorraine District of France It is in the cast of the country be tween Luxembourg and Alsace, and formed the Lorden reality near Sodom. The story

Lorraine District of France It is in the cast of the country be tween Luxembourg and Alsace, and formed part of the district of Alsace Lorraine which was a German possession from 1871 to 1919

Lorraine owes its name to Lothair who was its first king in the 9th century Soon it was seized by France, but later became part of Germany It was ruled by dukes who were vassals of the German king until 1542, when however, it passed under the control of France and its dukes were subject to the King of France Their line died out in 1736, when Stanislaus the eviled King of Poland and the father in law of Louis XV, was made duke In 1766 he died and the duchy passed to France who retained it until 1871

The old duchy was much larger than the present district Until 1871 it included Nancy which was its capital In the carly Middle Ages it included Brabant, then called Lower Lorraine Its chief town is now Metz Its chief river is the Moselle and it is mainly covered by the department of Moselle

Lory Subfamily of Austromalayan brush tongued parrots Pigeon sized and smaller, of brilliant plumage, sometimes broad tailed, they have sharply pointed wings The purple-capped red tailed Lorius domicella of the Moluccas with yellow gorget, fruit-eating and honev eating is frequently tamed for its unrivalled ventriloquism The New Guinca black-capped lory lacks the yellow gorget

os Angeles City and seaport of Cali the state it is 350 m from San Francisco and covers nearly 500 sq m It is well served by railways and air services and is laid out on modern lines with wide thoroughfares and high buildings in the central part In the city is the University of Southern California A huge stadium was erected for the Olympic Games of 1932 Water is brought by an aqueduct from the hills 230 miles away and electric light and power are generated The city has a service power are generated of electric railways

Los Angeles is known for its association with the film industry which is centred mainly in the districts known as Hollywood and Culver City There is a harbour at the mouth of the river and a large trade in fruit manufactures include motor vehicles, while oil refining is another important industry There are large railway shops and printing works Pop (1930) 1,238 048

Lossiemouth Burgh, watering seaport and place Moray, Scotland It stands where the River Lossic enters the Moray Firth, 5 m from Elgin, on the L N E Rly There is a harbour and fishing is the principal industry The from The burgh consists of three villages, Lossiemouth, Branderburgh and Stotfield Pop 4166

Lost Tribes The Ten Tribes of burgh consists of ture The Ten

ost Tribes The Ten Tribes of They were carried into captivity by the Assyrian King Sargon at the fall of Samarla, 722 B C The other two tribes deported to Babylon at the fall of Jerusalem 586 BC, returned 50 years later, but the ten disappeared from history

Lostwithiel Borough and Cornwall market

land the Jordan valley near Sodom The story of the flight from the doomed cities of the plain and his wife s death became a favourite warning in Jewish domestic life

othian District of Scotland It stretched from the Chevlot Hills to the Forth and was at one time part of the English klingdom of Northumbria In 1018 it was taken by Malcolm II King of the Scots, and was thenceforth a part of Scotland The Lothians now include the three counties of Linlithgow or West Lothian Edinburgh or Midlothian and Haddington or East Lothian The Royal Scots was formerly called the Lothian Regiment

othian Marquess of Scottish title In 1606 Mark Kerr, a lord of session, was made Earl of Lothian Robert the 4th earl, was made a marquess and from him the present marquess is descended Phillip Henry Rerr the 11th marquess was born, April 18, 1882, and educated at the Oratory School, Birmingham and at New College, Oxford He was editor of The Round Table, 1910-16, and secretary to D Lloyd George, 1916 21 In 1930 he succeeded a kinsman in the title In Aug., 1931, he was made Chancellor of the Duchy of Lancaster in the National Government, but he only held office for a few weeks He went to India as chairman of one of the committees appointed to deal with matters concerning the future government of that country His seats are Newbattle Abbey, near Edinburgh and Blickling Hall, Norfolk fine library at Blickling was sold in 1931

Pierre Name taken by the French Louis Marie Julien Viaud ot1 writer, Louis Marie Julien Viaud Jan 14, 1850 he entered the navy in In 1879 he appeared as a novelist, and Born Jan 1867 he made a reputation in 1880 with Le Mariage de Loti Many others, stories of adventure, followed, followed, one of the most popular being Le Pecheur d Islande Others are Le Roman d'un Spahi La Galilée and L'Inde (sans les Anglais) In 1891 he was elected to the Academy and he

died June 10, 1923

I Otion Fluid preparation for cleansing or healing the body's outer surface Distinct from a liniment because not olly, and from a fomentation because not hot, it is usually applied on lint. It may be antiseptic, eg boric acid, cleansing eg, black wash, astringent eg, Goulard's water soothing, eg, baking soda, cooling, eg, vinegar and water

ottery Award of money or other prizes Since 1826 lotteries have been illegal in Great Britain before that time they were used to obtain money for the state as they still are in several European countries Sweepstakes and railles come under the heading of lotteries, and are therefore, strictly speaking, illegal in Great Britain though not in the Irish Free State A competition is a lottery only if chance is the deciding factor in awarding the prizes Most of the competitions conducted by the newspapers and periodicals are arranged so that they contain an element of skill and are therefore, technically, legal

Lotus Classical name of various plants it includes the jujube-tree associated with the lotus-eaters, and the sacred water lilies, Nymphaea lotus, of Egypt and Netumbaum speciosum of India

The lotus is also the name of a large cosmopolitan genus of leguminous herbs and undershrubs Four British species include the yellow bird's foot trefoil, sometimes redstreaked, of which a cultivated double-flowered form occurs

Loubet Emile French statesman Born, 1838, at Marsanne, he was the son of a small farmer who was, for was the son of a small farmer who was, for many years, mayor of the town He became a lawyer at Montélimar and soon took part in local affairs In 1876 he was elected a deputy and in 1885 he was made a senator Having been Minister of Public Works, 1887-88, he became Premier in 1892 In 1895 he was elected President of the Senate and from 1899 to 1906 he was President of the Republic He died Dec. 20 1929

1899 to 1906 he was President of the Republic He died Dec 20 1929

Loudoun Earl of Scottish title In 1633 John Campbell was created Earl of Loudoun James Mure Campbell, the 5th earl, died in 1786, when the title passed to his daughter, Flora, who later married the Macanese of Heatings Until 1868 the passed to his daughter, Fiora, who later married the Marquess of Hastings Until 1868 the earldom was held by succeeding Marquesses of Hastings In 1868 the marquessate became extinct, so the earldom of Loudoun passed to a woman, as it did again in 1920 when Charles Edward Hastings, the 11th earl, died Loudoun is a parish near Kilmarnock in Ayrshiro Therein is Loudoun Castle, the old seat of the earls and countesses

old seat of the earls and countesses

Loud Speaker Apparatus for concerning in a wireless receiver into generally audible sound vibrations. Two main types are made, the cone type being a megaphone attachment to a telephone, the moving-coil type having permanent magnets between which the coll carrying the current moves. Loud speakers are used in broadcast reception and generally for announcements in public. generally for announcements in public

Lough Word used in treamu for a mace or loch There are both inland loughs, as Lough Neagh, and loughs that are arms of the sea, as Carlingford Lough Word used in Ireland for a lake

Loughborough Borough and market shire It stands on the Soar, 10 m from Leices ter and 110 from London, on the LNE and LMS Rlys The war memorial is a bell tower in Queen's Park with a fine carillon. The chief industries are the making of hoslery and electrical goods and bell founding Pop. 1931, 26 (1931), 26,945

Loughrea Market town of Co Gal way, Irish Free State It stands on Lough Rea, 118 m from Dublin, on the GS Riys, and has a trade in agricultural produce Pop 2800

Loughton Urban district of Essex It is 12 m from London, on the LNE Riy In former times the inhabitants had the right to cut firewood in Epping Forest, which adjoins the town, and Epping Forest, which adjoins the town, and the Lopping Hall, built in 1883 is a reminder of this practice Loughton Hall stands on the site of a famous Tudor mansion Pop (1931), 7390

Louis Old French coin, in full the Louis d'or A gold coin, it was first coined in 1640 and named after Louis XIII It was worth about 16s, and was coined

regularly until 175! Later the napoleon of 20 francs was sometimes called the Louis

Louis Name of four rulers of the mediaeval or Holy Roman Empire, called by the Germans, Ludwig Louis I, a son of Charlemagne, succeeded to a vast inheritance when his father died in 814. His reign was troubled by quarrels between his sons, who divided his realm at his death, June 20, 1840 Louis II, a son of Lothair I, was emperor from 855 to 875 and Louis III, a grandson of Louis III, from 901 to 905. He was then deposed and blinded, and lived at Arles until his death in Sept, 928

Louis IV. was Duke of Bavaria when he was elected Emperor in 1314 He was crowned Emperor in Rome in 1328, and in spite of much opposition held his own until his death, Oct 11,

opposition held his own until his death, Oct 11.

Louis Name of eighteen kings of France The first five were descendants of Charlemagne The next Louis, Louis VI, called the Fat, was a king of the Capetian family He reigned from 1108 to 1137 His son, Louis VII, reigned from 1137 to 1180 He was the rival of Henry II of England who married his divorced wife, Eleanor of Aquitaine, and so became ruler of a good deal of France Louis VIII, a son of Philip Augustus, reigned from 1223 to 1226 Before his accession he had invaded England in the reign of King John The other kings of this name are noticed separately

Louis IX. King of France, called S Louis Born April 25, 1214, he was a son of Louis VIII and Blanche of Castile In 1226 he became king, and for When he came his mother was regent. of Castile In 1226 he became king, and for a time his mother was regent. When he came of age he carried on a war against Henry III of England, and did a good deal to strengthen the position of the throne. From 1248 to 1254 he was absent on a crusade. In the next eighteen years he won his reputation as a lawgiver and a saint, having established the Sorbourne in Paris, issued a new code of laws, set up courts of justice and effected many other improvements. In 1270 he went on his second crusade, but as soon as he reached Tunis he died of the plague, Aug. 25, 1270. In 1290 he was canonised and his life was written by the historian Jean de Joinville.

Louis X. King of France A son of Philip IV, he was born Oct 4, 1289 In 1314 he became king but he only reigned for two years as he died June 5, 1316 His successor was his brother, Philip V

Louis XI. King of France A son of Charles VII, he was born at Bourges, July 3, 1423 In 1461 he became king and reigned for 22 years At home he did a great deal to make the crown stronger and the nobles weaker, abroad he was occupied with wars and intrigues with Charles the Bold and Edward IV of England In 1468 he was taken prisoner by Charles, but released three days later

Louis has won fame as one of the craftiget

but released three days later
Louis has won fame as one of the craftlest
of kings, using cunning rather than arms to
discomfit his foes In his later vears he
became very superstitious and lived in retirement at Plessis les Tours He died there
Aug 30, 1483 His successor was his son,
Charles VIII Louis is pictured by Scott in
Quentin Durward
Louis XII. King of France A son of
he was born in 1462 He became Duke of
Orleans, married a daughter of Louis XI,

and took some part in politics and in war Later he was recognised as heir to the child less king Charles VIII whom he succeded in 1499 Louis reigned for 15 years, some of which were spent warring in Italy, where he conquered, but could not hold, a good deal of the country He died Jan 1, 1515, having gained the title of father of his people Louis married, as his second wife, Anne, Duchess of Brittany, and as his third, Mary, daughter of Henry VII of England He left no sons, and his successor was Francis I

Louis XIII King of France A son of Henry IV and Mary de' Medici, he was born Sept. 27, 1601, and became king nine years later For some years his mother acted as regent, but in 1617 he himself took control His personal roign of over 25 years was overshadowed by his minister Richelleu, who took office in 1624 and hence forward directed the affairs of state, and was disturbed by risings of the Huguenots, which were put down firmir, and by intrigues against Richelieu, engineered by the king s brother Gaston, Duke of Orleans. In its later period France went to help the Protestants in the Thirty Years' War Louis married Anne daughter of Philip III of Spain Their sons were Louis XIV and Philip, Duke of Orleans He died May 14, 1643

Louis XIV. King of France A son of Austria, he was born Sept. 5, 1638, and began to reign in May, 1643 He reigned for the long period of 72 years, and was by far the most prominent figure in the Europe of his day exercising enormous influence, not only upon politics, but also upon art, literature and fashion During the earlier part of his reign he greatly extended the area of France although in 1697 and 1713 he was obliged to return many of his gains He had a great sense of his own importance, surrounded him self with pomp and was called 'le rol soleil' and 'le grand monarque He built Ver salles and other splendid edifices Louis married Maria Theresa, an Austrian princess and after her death Madame de Maintenon His son and his grandson died before him, and he was succeeded by his great-grandson Louis XV He died Sept. 1, 1716

Louis XV. King of France. A son of who was a grandson of Louis XIV he was born Feb 15, 1710 In 1715 he succeeded his great-grandfather on the throne, and he reigned over France for nearly 60 years. His reign began with the making of peace, but for much of it France was at war with Great Britain and other European powers Weak and sensual the king exercised little influence on affairs of state so contributing in a negative fashlon to the revolution In 1725 he married Maria Leszczynska, a daughter of the exiled King of Poland, but he had also many mistresses, notably Madame do Pompadour He was called the well beloved (blen aimé) because, when he was ill in 1744, the people showed great concern. He died May 10, 1774, and was succeeded by his grandson.

Louis XVI King of France Born at Versailles Aug 23
1754, he was a son of the dauphin Louis and a grandson of Louis XV In 1765 his grandfather as king Four years before he had married Marie Antoinette, a member of the grant Happyng family and a grand of the grant Happyng family and a dauphin to the grant Happyng family and a daupher of the grant Happyng family and a daupher.

of Maria Theresa, the empress reign at an unfortunate time. The state of the country gradually became worse, and in 1789 the revolution began and he had to pay for the sins of his fathers. In June, 1791, he escaped from Paris to Vincennes, but he was captured and brought back. From then until Sopt 1792, he reigned as a constitutional king, but the office was then abolished and Louis was put upon his trial. He was found guilty and guillotined as Louis Capet, Jan. 21, 1793. The king left a son, known as Louis XVII., and a daughter

Louis XVII King of France, but in name only A son of In 1789 he became dauphin on the death of his elder brother He was put in prison with the other members of the royal family, and kept there after the execution of his parents. He was reported to have died in the Temple, Paris, then a prison June 8, 1795, perhaps of poison, but some thought the report was untrue Several protenders came forward, claiming to be the dauphin the most notable a German, Karl Wilhelm Naundorff, who appeared in France in 1833 He died in 1845

Louis XVIII King of France. He was born at Versailles. Nov 17 1755 and was a son of the dauphin Louis and a grandson of Louis XV At the outbreak of the Revolution he expressed some sympathy with the new order, but after the capture of his brother Louis XVI, he escaped from the country In 1795 when the dau phin nominally Louis XVII, died, he proclaimed himself king, but it was an empty title only He lived a life of hardship and sometimes want until 1807, when he settled in England In 1814 Louis, as the head of the Bourbons, was recalled to France and became king, but was soon forced to fice, in 1815 however he returned and reigned until his death Sept 16, 1824 His successor was his brother Charles X

LOUIS Name of three kings of Bavarla, also known as Ludwig Louis I, a son of the first king Maximillan Joseph, was born Aug 25 1786 He became king in 1825 and ruled on the whole wisely, until compelled to abdicate in 1848 He died Feb 28 1868 One of his sons was King Maximillan II Another was Otto King of Greece

28 1868 One of his sons was king alaxi milian II Another was Otto King of Greece Louis II, a son of Maximilian II, was born Aug 25 1845 and became king in 1864 Interested in art and music, he neglected affairs of state He was the patron of Wagner, and spent enormous sums of money on buildings to carry out the great composers ideas. Later his mind gave way, and in 1886 a regent was appointed Three days later the king and his medical attendant were drowned

Louis III, a son of the regent Luitpold, was born Jan 7, 1845 In 1912 he succeeded his father as regent for the insane king Otto, and in 1913 Otto was deposed and Louis became king He reigned until compelled to abdicate in 1918, and died Oct. 21 1921

Louisburg Seaport of Cape Breton Nova Scotla It has a railway station and is 40 m from Sydney There is a good harbour and fishing is an industry

and a grandson of Louis XV in 1765 his In 1714, when the French surrendered Nova father died, and in 1774 he succeeded his Scotia to Great Britain they kept Cape Breton grandfather as king Four years before he had married Marie Antoinette, a member called Louisburg in 1745 after a long siego, of the great Hapsburg family and a daughter this was taken by the British, but it was

restored in 1748 In 1758 it was again taken its grotto, visited every year by thousands by the British with a combined army and of pilgrims, as it contains a spring reputed to fleet, and this time it was destroyed

Louise Name of two British princesses One was the fourth daughter of Queen Victoria Born March 18, 1848, in 1871 she married the Marquess of Lorne, afterwards 9th Duke of Argyll He died in 1914 The princess is childless

Another Princess Louise was the eldest daughter of Edward VII She was born Feb 20, 1867, and married in 1889 the Duke of Fife, who died in 1912 Known as the Princess Royal, she died Jan 4, 1931, leaving two daughters

daughters

Louisiana State of the United States It covers 48,500 sq m, and has a coastline on the Gulf of Mexico of some 1500 m Baton Rouge is the capital, but New Orleans is the largest town It is a fertile area, although liable to floods in the S where there are many swamps Cotton, the and swear are grown and these persons.

the S where there are many swamps Cotton, rice and sugar are grown, and there are vast forests. The fisherics are valuable, and there are rich sulphur mines. The state is governed by a legislature of two houses and sends eight representatives and two senators to Congress. It became a state in 1812. Pop 2,101,593.

Louisiana is the name given by the French to a great district which they acquired in 1682. It included the whole of the central part of the present United States, from the Great Lakes to the Gulf of Mexico and from the English colonies to the Rocky Mountains, Texas being excluded. In 1763 it was ceded partly to Great Britain and partly to Spain, but in 1800 the Spanish portion, lying to the W of the Mississippi, was given back to France. In 1803 this area, over 1,100,000 sq m in extent, was sold by France to the United States for £3,000,000.

United States for £3,000,000

Louis Philippe King of the French Born Oct. 6, 1773, he was the eldest son of the Bourbon, Philip, Duke of Orleans, known as Egalité When the French Revolution began he followed his father in renouncing his titles and joined the revolutionary army In 1794, however, having displeased the authorities, he fied from the country, and until the restoration of 1815 lived in Switzerland, the United States and England In 1815 he returned to France, and in 1830 on the deposition of Charles X, was chosen King of the French He was known, partly owing to his homely ways and partly to his declared opinions, as the Citizen King At first his rule was successful, but gradually he became unpopular, and unwise repressive measures added to his ful, but gradually he became unpopular, and unwise repressive measures added to his enomies. The trouble came to a head in 1848 when the king abdicated and fled to England. He lived at Claremont, Surrey, until his death, Aug 26, 1850. His only surviving son was known as the Comte de Paris. Paris

Louisville City of Kentucky, United States It stands on the Ohio, 110 m from Cincinnati, and is an important railway junction There are many manufactures, including tobacco, while the shipping is important, as Louisville is a great river port with extensive docks Formerly a settlement known as "The Falls of the Ohio," it became a town in 1780 and was named after

of pilgrims, as it contains a spring reputed to possess miraculous powers of healing. The buildings include the basilica, the chapel of the rosary and a hospice for pilgrims. Overlooking the town is a chateau. The pilgrimages began in 1858 when the Virgin appeared to a peasant girl. It is said that about 500,000 persons visit the shrine each year, and many oures have been reported Emile Zola's great novel Lourdes deals with the pilgrimage Pop (1931) 42,779

Lourenço Marques City and seaguese East Africa and capital of Mozambique It is on Delagoa Bay, 347 m from Pretoria, and is the nearest outlet for the produce of the Transvaal There is a large harbour and extensive docks The city has a botanic garden Pop (1931) 42,779

Louse of small invertebrate animals, especially (1) wingless parasitic suctorial bugs infesting the hair of human and mammalian hosts, (2) another wingless order having biting mouth-parts, parasitic on birds and

han hoses, (2) another wingless order having biting mouth-parts, parasitic on birds and mammals, called bird-lice, (3) degraded parasitic crustaceans called fish-lice and whale lice (4) plant-sucking bugs and their larvae, called plant-lice See Woodlouse

Lousewort Large genus of herbs perennial, of the figwort order, they are natives of N temperate regions (Pedicularis) Parasitic on roots the figwort order, they are natives of N temperate regions (Pedicularis) Parasitic on roots the common British heath lousewort, P sylvatica, so-called because long supposed to encourage lice in browsing sheep, bears rose-coloured, two-lipped flowers The marsh lousewort, P palustris, is an annual, with dull-pink flowers

Louth County of the Irish Free State It is in Leinster with a coastline on the Irish Sea, and its area is 316 sq m. Dundalk is the county town, another town is Drogheda, while Carlingford and Greenore are coastal towns. The Boyne forms its southern boundary, and is the only navigable river. There are hills in the N, but the surface is usually flat and the soil fertile. Agriculture is the chief industry. The country contains the famous runs of Mongatorholder. culture is the chief industry. The country contains the famous ruins of Monesterboice. It takes its name from a village near Dundalk, once a place of importance. Pop. (1926), 62,739

Outh Borough and market town of Lincolnshire It is 31 m from Lincoln and 141 from London, on the L N E. Rly The town is an agricultural centre and has works for making agricultural implements, other industries are brewing, malting and milling Near are the ruins of a Cistercian abbev Pop (1931), 9678

Louvain City of Belgium It is on the Dyle, 19 m from Brussels, has some industries and is a railway junction It contains some of the finest buildings in Belgium, notably the Hotel de Ville, which was unharmed during the German occupation. The cathedral, however, was damaged, but

shipping is important, as Louisville is a great river port with extensive docks Formerly a Louvain is chiefly famous for its university, founded in 1423 and long one of the chief it became a town in 1780 and was named after Louis XVI of Frince Pop (1930) 307,745

Lourdes Town of France It is on the Pyrences, 22 m from Pau. It is famous for its university, founded in 1423 and long one of the chief intellectual centres of Europe Its chief in Aug, 1914, the books and manuscripts lost being irreplaceable It has been restored Louvain is chiefly famous for its university, founded in 1423 and long one of the chief intellectual centres of Europe Its chief in Aug, 1914, the books and manuscripts lost being irreplaceable It has been restored Louvain is chiefly famous for its university, founded in 1423 and long one of the chief intellectual centres of Europe Its chief in Aug, 1914, the books and manuscripts lost being irreplaceable It has been restored Louvain is chiefly famous for its university, founded in 1423 and long one of the chief intellectual centres of Europe Its chief intellectual cent

In the world The building stands on the right bank of the Scine and was long one of the chief palaces of the kings Built on the site of an older palace, the present building was begun in the 16th century by Francis I and added to by Louis XIV and Napoleon The famous Apollo Gallery was rebuilt, 1845 51, and in 1906 two new galleries were added

The palace has been a museum since the time of Napoleon who brought here many of the works of art he collected during his cam The richness of the collection defies on The paintings and sculptures description are representative of the art of almost every age and school The pictures include Leon ardo da Vinci's "Mona Lisa ' and " the Virgin of the Rocks" The sculptures include the " 'Venus of Milo " and the ' Winged Victory of

Samothrace "

of smooth perennial Genus \_ovage umbelliferous herbs (Ligusticum) temperate regions Scotch lov natives of N temperate regions Scotch lov age, L scoticum, also found in Northumber land and N Ireland, on rocky coasts, with small white or pink flowers, has a stout, branched, aromatic and pungent rootstock, its much-divided leaves are eaten as a pot

Lovat Lord Scottish title held by the family of Fraser Hugh Fraser, the 1st lord, lived in the 15th century, and owned vast lands in the county of Inverness which passed to his descendants When Simon Loyat, the Jacobite, was executed in 1747, the title and estates were forfeited, but they were restored to his son, Simon In 1815 the title became extinct, but the estates passed to a distant relative and in 1837 their owner was created Baron Lovat with the precedence of the earlier title

Simon Joseph Fraser, who in 1887 became the 14th baron, was born Nov 25, 1871 For service against the Boers he raised Loyat's Scouts, and he served in France and Galli poli during the Great War His seat is Beau fort Castle Beauly, around which are his

large estates

Lovat Lord Scottish nobleman Simon Fracer, 12th Baron Lovat, was born about 1667, a grandson of the 7th baron and a cousin of the 10th For his outrageous treatment of his wife a daughter of the house of Argyll, he was prosecuted by her kinsfoll, but escaped and lived in France as a Jacobito In 1715 he helped the government and was pardoned, and later secured the family estates, and had his title confirmed In 1745 he sided with the Jacobites, with whom he had regularly kept in touch, and took the field After Culloden he was captured, found guilty of treason and beheaded in London April 9, 1747

Love Sentiment of sympathetic or pleasur able attraction felt towards certain individuals, classes or things Though regarded as ultimately derived from the parental instinct shared by the lower animals, it tends to acquire in man moral and spiritual elements which in its highest expression, lack all thought of self interest. The Christian ideal makes love to man the unvarying method of manifesting love to God In the supreme synthesis of the beloved disciple God is Love (1 John iv, 8)

over the world The new building was opened in 1928 Pop (1931) 38,734

Louve In Museum and art gallery in Paris, probably the richest bank of the Seine and was long one of the bank of the Seine and was long one of the chief palaces of the kings Built on the site of the long in the site of the long in the site of the long is a favourite cage bird, and some tropical American and Papuan property of the kings Built on the site of long is a favourite cage bird, and some tropical American and Papuan property of the kings Built on the site of long in the site of long is a favourite cage bird, and some tropical American and Papuan property of the kings Built on the site of long is a favourite cage bird, and some tropical American and Papuan property of the kings Built on the site of long in the long is a favourite cage. pygmy parrots The Australian budgerigar or love bird, Melopsitiacus undulatus is a long tailed grass parrot formerly much used for street fortune telling

Love-in-a-Mist (Nigella damas unculaceous plant popular in gardens The flowers are blue or white surrounded by filmy leaves giving the appearance which gives rise to the name. It is hardy and easily arrounded which should be planted where grown from seed which should be planted where the flowers are required to bloom, in April or May Other names for it are Jack in Prison or Devil in a Bush

William King Lord Ockham a title given to his ancestor, Sir Peter King the Lord Chan cellor was made Earl of Lovelace in 1838. The title is still held by his family The carl's eldest son is called Viscount Ockham

Lovelace Richard English poot A to was born at Woolwich in 1618 In 1642 he was put in prison for a political offence Later he fought on the Royalist side in the Civil War and served in the French Army, then came back to England where he was again in prison in 1648 49 He died in London in poverty in 1658

Love-Lies-Bleeding (Amaran ual plant bearing red flowers on long drooping stems Prince's feather (Amarantus hypo chondriacus) of the same genus is of slightly taller growth with red flowers borne on an erect stem It grows to a height of 2 or 3 ft.

Loving Cup Drinking vessel cere hand to hand at state and civic banquets Like the grace cup of university gatherings, it is often a gold or silver gilt chalice or goblet, with or without cover, sometimes many-handled It appears at mayoral and livery company banquets in the city of London and elsewhere

ow Countries Name used for the of their situation, on or below the level of the sea It includes the modern kingdoms

of Belgium and the Netherlands

Lowe Sir Hudson British soldier He was born in Galway, July 28, 1769 entered the army and served in Egypt, afterwards being Governor of the Ionian Islands He served with the Prussian Army in 1814 15 and in 1815 was made Governor of St Helena and therefore responsible for Napoleon From 1825 31 Lowe commanded the troops in Ceylon, and he died Jan 10 1844

Lowell City of Massachusetts It is rivers Morrimac and Concord meet An im portant industrial town, Lowell has manu factures of woollen goods, clothing, machinery etc. Pop. (1930) 100 234

Lowell James Russell American poet. Born at Cambridge, Massa chusetts, Feb 22, 1819, he was educated at Harvard and became a lawver, but soon left this profession to edit The Pennsylvania

Freeman. From 1857 to 1861 he edited The Allantic Monthly, and from 1862 to 1872 was part editor of The North American Review From 1855 to 1877 he was Professor of Modern Languages and Literature at Harvard In

Languages and Literature at Harvard In 1877 ho became ambassador in Madrid, and in 1880 in London He left the service in 1885 and died Aug 12, 1891

Lowell is best known, perhaps, as a poet. Some of his shorter pieces, for example The Present Crusis, are among the finest in American literature, and his gift of humour is well seen in The Biglow Papers Equally notable are The Vision of Sir Launfal and A Fable for Crutes. His critical works include Mu. for Critics His critical works include My Study Windows, Among My Books and The Old English Dramatists He also wrote a life

Old English Dramatists He also wrote a life of Hawthorne and Fireside Travels

Lowell Porcival American astronomer Born in Boston, March 13, 1855, he spent his life in the study of astronomy, first at the Lowell Observatory, Flagstaff, Arizona, and later as Professor of Astronomy in Boston and conducted warm realizable. in Boston, and conducted very valuable researches He wrote Mars and its Canals and Mars as the Abode of Life Lowell died Nov 13, 1916

Lowestoft Borough, seaport, market town and watering place of Suffolk. It stands at the mouth of the Waveney, Il8 m from London, on the LNE Rly The narrow streets in the old town are called scores With inner and outer harbour Lowestoft is a great fishing port and has a large fish market. Near is Lowestoft Ness, the most easterly point of England Pop (1931) 41,768

On June 3, 1665, there was a sea fight off Lowestoft between the English and the Dutch floats.

floets The Dutch were defeated
On April 25, 1916, a German fleet, aided by
some Zeppelius, bombarded Lowestoft and did some damago There was another bom-bardment on Nov 26, 1916, and the town was soveral times attacked from the air

Low Sunday First Sunday after Variously explained as being so-called to distinguish it filance as being so-cance to distinguish it from the great festival whose octave it ends, or as the "Laudes Sunday" on which the sequence Laudes Salvatoris was sung, it is the Roman Catholic Alb or Quasimodo Sunday, and the Greek Antipascha or New Sunday

Lowther Village of Westmorland It is 4 m from Penrith and gives its name to the family of which the Earl of Lonsdale is the head Here is the earl's Lonsdale is the head Here is the earl's seat, Lowther Castle, built in the style of the 14th century and containing some valuable treasures

Owther Range of hills in Scotland.
They are in the counties of anark and Dumfries The highest points Lanark and Dumfries are about 2400 ft. high

Loyalty Group of islands in the Pacific Coyalty Group of islands in the Pacific and are governed from New Calcdonia, which is 100 m away The largest are Lifou, Mare and Uvea Copra, rubber and coconuts are the main products They cover 800 sq m.

Loyola Ignatius Spanish saint and founder of the Society of Jesus He was born at Loyola, a castle in the Basque Provinces, Dec 24, 1491, and passed his vouth at the court of Ferdinand and Isabella He then became a soldier, and while recovering from wounds he read some devotional books, with the result that in March, 1522, he dedicated himself to the service of the church

LUCAN

He wrote about this time the wonderful book of devotion called Spiritual Exercises

Loyola next made two journeys to Jerusalem, then studied at several universities, where he found some kindred spirits. In 1534 he and six others of them took yows in a church at Montmartre which marked the foundation of the great order. The intention of its members was to work for the conversion. of its members was to work for the conversion of the heathen In 1540, when the order was formally founded by the pope, Lovola became its first general The rest of his life was passed in Rome in organising the society, which in a few years became large and influential He died July 31, 1556 In 1622 Loyola was canonised See Jusuits

LOZenge Diamond shaped figure Forming a subordinary in heraldic charges, it is a rustre if pierced with a round opening, a fusil if elongated Shields so shaped bear the arms of spinsters and widows The word also denotes a small medicated or flavoured tablet, originally diamond shaped, for slow solution in the mouth, eq., cough lozenges

Lubeck City and seaport of Germany It stands on the Trave, 10 m from its mouth in Lübeck Bay, and is one of the most important of the Baltic seaports It is connected by railway with Berlin, 180 m away, and is also a centre for air services. The river channel has been deepened so that the largest vessels can reach the city. As one of the chief towns of the Hanseatic League, Lübeck is historically a place of much charm. The 13th century town hall on the market place is one of the floating.

on the market place is one of the finest in Germany Equally fine is the Gothic cathedral, Germany Equally fine is the Gothic cathedral, enlarged in the 15th century, and there are many other notable old buildings In the newer part of the town are some fine modern ones Shipping and shipbuilding are carried on, while there are blast furnaces and manufactures of various kinds Pop 125,000

Lübeck State of the German republic It is a district along the river Trave, and includes the city of Lübeck and the town of Travenunde The area is 115 sq m and the population 150,000 It is governed by a senate and a house of burgesses, the 12 members of the senate forming the executive

Lubitsch Ernst. German actor He 1892, and from 1911 to 1922 gained experience as an actor in Germany In 1922 he went to America to direct Mary Pickford's work for the films, and since 1927 he has produced for the Famous Players-Lasky Corporation

Lubrication Act of insinuating between two surfaces, such as parts of machines pressing and rubbing against each other, substances called lubricants, designed to lessen friction and prevent serious abrasion These substances may be solid, semi solid or liquid, ranging from metallic alloys and graphite to animal, vegetable and minoral greases and oils

Lucan Roman poet Spain in A D 39, and was named Marcus Annacus Lucanus He went to Rome hiarcus Annacus Lucanus — He went to Rome and his uncle, Seneca, secured for him entrance to the court of Nero — There his abilities made him conspicuous, and aroused the jealousy of the Emperor — In 65 he was concerned in a plot to murder Nero, and on this being discovered he committed suicide — His sole extant poem is called *Pharsalia*, it deals with the civil war between Caesar and Pompey and the end of the republic.

Earl of Irish title held by the Lucan family of Bingham 1632  $_{
m In}$ Henry Bingham was made a baronet In 1776 his descendant, Sir Charles Bingham, was made a baron and in 1795 Earl of Lucan Wis grandson, George Charles Bingham, who became the 3rd earl in 1839, was the soldier who commanded the cavalry division at Balaciava, where his share in the disaster led to a good deal of controversy. He died Nov 10, 1888 and the present earl is his descendant. The earls estates are chiefly in Co Mayo, where is his seat Castlebar House. His eldest son is called Lord Bingham. Lucan is a village on the Liffey, just outside Dublin

Lucas Edward Verrall English author privately He began to write, and in 1902 joined the staff of Punch He made a reputa tion as a humorist by the skits written with C L Graves including Wisdom While Fou Wat and Hustled History Some of his works are travel books, such as A Wanderer in London, and others are anthologies such as The Open Road Some deal with art and others are novels of a somewhat discursive kind A selection shows his versatility Highways and Byways in Sussex Over Bemerion's Mr Ingleside, A Boswell of Baghdad, John Constable the Painter and A Wanderer among Pretures About 1924 he became chairman of the publishing firm of Methuen & Co. Ltd. He was made a Companion of Honour in 1932

Lucas John Seymour English painter Dec 21, 1849 he was apprenticed to a wood studied painting at the schools His paintings of his painting his painting his painter painting his paintin schools His paintings of historical scenes won for him a considerable reputation, not able ones being "The Armada in Sight" and 'After Culloden" He also painted a panel for the Royal Exchange, London Lucas was made ARA in 1886 and RA in 1898 He died May 8 1923

Lucca City of Italy, 15 m. from Pisa. Notable buildings are the 11th century cathedral and the town hall once a ducal palace. There are the remains of a Roman amphitheatre and aqueduct and of the town walls. From 1369 to 1797 Lucca was a republic. It is now a flourishing town with cultural trade Near the city are the famous hot baths of Lucca Pop (1931) 81,807

Luce Bay Opening of the sea off the sea off wigtown shire It is between the Mull of Galloway and Burrow Head, and goes about 16 m into the land

Lucerne Perennial leguminous herb of the Mediterranean region, also called purple medick (Medicago sativa) Cultivated in antiquity, and reaching Tudor England, it grows widely nowadays in temper ate climates including western N America which calls it alfalfa Its trefolled leaves and clusters of yellow or blue clover like flowers clusters of yellow or blue clover like flowers yield several pasture and fodder crops annually

See ALFALPA

Lucerne Lake of Switzerland It is about 24 m long and covers about 58 m It is famed for its beauty and has a second to be with William Tell The River associations with William Tell Reuss runs through it.

Lucerne City of Switzerland It stands just where the River Reuss leaves the Lake of Lucerne, 59 m from Basel Lucerne is the capital of the canton of the Near is the famous Axenstrasse, a road cut out of the rocks

Lucerno is a popular tourist centre and from

Lucerno is a popular tourist centre and from it many famous beauty spots can be visited. It is a calling place for steamers on the lake, and has some industries. Pop. (1930) 47,066

Lucian Greek writer. He was born in travelling from place to place and lecturing travelling from place to place and lecturing and be died in Egypt in AD 180. The most popular that the properties of the street in the later than the properties of the street in the later than the properties of the street in the later than the properties of the street in the later than the properties of the street in the later than the properties of the street in the later than the properties of the street in the later than the properties of the street in the later than the properties of the street in the later than the properties of the street in the later than the properties of the street in the later than the properties of the street in the later than the properties of the street in the later than the properties are th of his many writings are his satires in which he holds up to ridicule the gods and the old customs They have been translated as Dialogues of the Dead, Dialogues of the Gods, and other titles He also wrote a True History

Latin name, light bearer, for the planet Venus as morning Lucifer star The Hebrew word 'shining-one," denoting figuratively the King of Babylon in Isa. xiv 12 and translated Lucifer in the Authorised Version becomes 'day star' in the Revised Version With this passage early Christian theologians incorrectly connected Luke x 18 and Rev xi 1, hence Lucifer came to denote Satan before his fall

ucknow City of India It stands on the River Gumti, 560 m from Calcutta, and is an important railway junction. Calcutta, and is an important railway junction. The city has many industries some being traditional Indian crafts, while others are engineering works railway shops and the like From 1732 to 1857 Lucknow was the capital of the rulers of Oudh It is now the capital of a division of the province of Agra and Oudh Pop (1931) 274,659

The Siege of Lucknow was one of the outstanding incidents of the Indian Mutiny

Lucretia Roman heroine The wife of Lucius Tarquinius Colla tinus, a member of the Tarquin family Another member of the family outraged her where upon she stabbed herself to death on the next day A revolt followed and the Tarquins were driven from Rome Her story is told by Livy. and Shapespeare described the act in his poem, The Rape of Lucrece

Lucretius Latin philosopher and poet.
Titus Lucretius Carus was
born in 98 B o Very little is known about
him except that he wrote and that he died in
55 B c His great work is De Rerum Natura a poem in which he expounds his philosophy, that of the Epicureans

Lucullus Roman epicure Lucius Lici-nius Lucullus was born in 110 Bc and became a soldior He made a reputation by his nine years campaign against Mithridates and became practor in 77 and consul in 74 In 65 he retired from active service and during the next nine years gave feasts of unsurpassed profusion and splendour at his villa at Tusculum and at his house in

at his villa at Tusculum and at his house in Rome He died in 57 B c

Lucy Sir Henry William English humorist. there educated After a period in 1845, he was there educated After a period in business, he became a reporter on a journal in Shrewsbury in 1864 In 1873 having been for a time in Paris he joined the staff of The Daily News and in 1881 became a member of the Punch staff He was knighted in 1909 and retired in 1916 Lucy made his reputation as a reporter of debates in Parliament and by the

Feb 20, 1924

Luddites Men who caused disturbances in the Midland counties of England in 1811-12 The name is taken from that of Ned Ludd, an idiot living in a village of Leicestershire The Luddites, believing that machinery was the cause of their unemployment and distress, went about destroying it. They were chiefly men connected with the provinent and distress, went about destroying it. They were chiefly men connected with the making of hosiery in the countles of Nottingham and Leicester, where most of the damage was done. The rising was put down, but in 1816 there was another outbreak which extended into Yorkshire and Lancashire.

Ludendorff Erich German soldier Born in Posen, April 9 1865, he entered the army in 1882 He secured an appointment on the staff, lectured to the students at the military academy and in time rose to the rank of major general In Aug 1914, he took part in the attack on Liège, but was soon sent to the east to serve as chief of the staff to Hindenburg When, in August, 1916, Hindenburg took command of all the German forces, he remained his chief adviser

Ludendorff was responsible for the defeat of Rumania, but his chief energies were directed to the western front He directed the German campaigns of 1917 and 1918, and in the former year introduced new methods of attack and defence. He was in control until the end came, but he could not avert the final defeat. In Oct, 1918, he resigned, and after a time in Sweden settled in Munich Now and again he appeared in public life, once as an opponent of the republic He wrote books on the war My War Memories, The General Staff and its Problems and Warfare and Politics

Ludgate One of the old gates of the city of London It was near where the Old Bailey now stands and owed its name to the legend that it was built by King Lud It was used as a prison for debtors and was pulled down in 1760 The name is now borne by Ludgate Circus, where Flect Street meets Farringdon Street and New Bridge Street, and Ludgate Hill, which leads from the Circus to St Paul's Cathedral

Ludlow Borough and market town of Shropshire It stands on the River Teme, 27 m from Shrewsbury and 162 from London The ruined castle is the chief object of interest. Tanning and milling are the chief industries. Interesting building object of interest. T the chief industries Interesting buildings include the old collegiate church in the Perpendicular style and The Feathers Inn

Ludlow was a very important place in the Ludiow was a very important place in the Middle Arcs, chiefly because of its position on the Welsh border The president of the Council of the Marches lived in the castle and the Court of the Marches was held there Milton's Comus was first plaved in the castle, which was destroyed in 1646 Ludiow sent members to the House of Commons from 1471 to 1885. to the House of Commons from 1471 to 1885 Pop (1931) 5642

Ludlow Edmund English politician to Trinity College, Oxford, and in 1642 joined the Parliamentary army He was made governor of Wardour Castle which he defended until 1646. In the case week I willow benefit until 1646. In the same year Ludlow became ary

skill with which he obtained information of value for his papers. The sketches of the proceedings in Parliament which he wrote for Punch, signed Toby M.P. were a feature of that journal Lucy wrote a number of books, including Memories of Eight Parliations, including Memories of Eight Parliations, and The Diary of a Journalist. He died troops in Ireland He lived chiefly at Vevey until his death in 1698, the last of the regicides Ludlow's Memoirs are a useful authority for the history of his time

Ludwig Emil German writer Born in Breslau, Jan 25, 1881, he was the son of a professor of ophthalmology named Cohen He was educated at the universities of Breslau and Heidelberg and began rersittes of Breslau and Heidelberg and Degrathis literary career by writing plays. He then did journalistic work and produced some novels, but his reputation rests upon his biographies. The first was a life of Bismarck, which he followed with lives of Napoleon, William II, Goethe and Abraham Lincoln, all described as psychological studies. He also described as psychological studies. He also wrote a life of Christ. His biographies have been translated into English

Ludwigshafen Town and river port the Rhine, just opposite Mannheim. There is a good harbour and shipping is an important industry, while the town has manufactures of chemicals and beer, flour mills and iron foundries The town was founded in 1843 by Louis, or Ludwig, King of Bavaria, and all its buildings are modern Pop 101,900

Lake of Italy and Switzerland Lugano It lies between Lakes Maggiore and Como, is 22 m long and covers some 20 sq m The River Tress carries its waters to Lake Maggiore The scenery around is very beautiful and on the lake shores are many

beautiful and on the lake shores are many spots visited by tourists

The city of Lugano is in Switzerland At the north end of the lake, it is 51 m from Milan on the main railway line. It is a tourist centre and a calling place for steamers on the lake Pop (1930) 15,184

Lugard Frederick John Dealtry, Baron British administrator Born before saw service in the Afghan War, 1879 80 With the exception of five years' governorship of Hong-Kong, 1907-12, his work has been confined to Africa, first in establishing and protecting British interests, then as High Commissioner of Northern Migrals 1800 Communications. Frederick John Dealtry, Baron missioner of Northern Nigeria, 1899, Governor of Northern and Southern Nigeria, 1912, and finally Governor General of all Nigeria, He has always sought to improve the conditions of the natives, doing much to abolish slave trading He retired in 1919, was made Privy Councillor, 1920, and was appointed to the permanent mandates commission of the League of Nations, 1922 He was created a baron in 1928

Lugg River of England and Wales Rising in Radnorshire it flows through Herefordshire, entering the River flows Wye below Mordiford

Lugger Vessel carrying lug sails Two-masted or three-masted, often with running bowsprit and 2-3 jibs, the quadrilateral sails are bent upon yards hanging obliquely to the mast

Luke Traditional author of the third gospel and the Acts of the Apostles in the New Testament He is commonly identified with the non-Jewish physician of Antioch mentioned by S Paul, whose missionjourneys he sometimes accompanied

Traditionally he died in Bithvnia when 74 isix centuries the seat of the Lumley family,

years old As saint and evangelist he is com memorated on October 18 The Gospel of T New Testament Third book of the

LUKE New Testament Written after the Matthew and Mark gospels, and addressed to the Gentile world, it is remarkable for its tender interest in the sick and outcast, its sympathy with womanhood, its intimate details of the infancy, perhaps derived from the Virgin Mary, and its full treatment of our Lord's last journey to Jerusalem Its literary charm betolens a versatile and cultivated intellect Its sequel, The Acts of the Apostles, displays similar qualities

1.1111 Jean Baptiste French composer

Lully Jean Baptiste French composer the when a young man settled in France and became a Frenchman He spent his life at the court of Louis XIV, first as a violinist, and finally as music master He died in Paris March 22 1087

Lully was a very successful composer wrote many operas in which he made the ballet an essential part and with him Molière was associated His works include, Alceste,

Atys, Thesee and other operas

Raymond Spanish writer Lully Haymond Spanish Writer Born in 1235 in the Island of Majorca he was the son of a nobleman, and passed his youth at the court of the King of Aragon About 1265 he devoted himself to missionary work among the heathen, to study and to writing In 1315 he went to Algerla where his results against the Weben wedges white the preaching against the Mohammedans irritated the people and he was almost stoned to death at Bougie Ho was rescued by some sallors, but died on their ship June 30, 1315 Lully had a great scheme for acquiring knowledge which he explained in his Ars Magna

h Name of two villages of Dorset East Lulworth is south east of Wareham West i m distant Near is Lulworth ulworth\_ about 5 m south east of Lulworth is 21 m distant

Cove, a holiday resort

Lumbago Pointal muscular affection back, due to inflammation of the connective tissue. It usually arrives as a sudden seizure, sometimes following exposure to cold and damp, or straining of the muscles of the loins

or straining of the muscles of the folias Treatment — During the acute phase of this type of rheumatism, local rest for the affected muscles of the back is essential The application of heat in the form of poultices, and counter irritants such as mustard or turpentine may relieve the pain and diminish the in flammation In chronic cases massage baths and spa treatment are most likely to be effective

Lumber Word denoting discarded furniture, (1) useless especially if cumbersome (2) N American timber sawn or spilt into logs beams, boards etc, for transportation The latter use originated in 17th century New England, and the important activities long carried on in Canada and the United States, in the felling preparing and transporting of timber constitute the lumber industry. The labour is performed by lumberers, lumberjacks or lumbermen. Similar berers, lumberjacks or lumbermen Similar operations enter into the collection of pulpwood for paper manufacture

Lumley Castle Residence of S Scarborough It is on the Wear near Chester le Street in Durham The original building dates from the 13th century, but the present one is largely modern. A fine pile, it has been for

which takes its name from here

Class of fish found round the coasts of \_umpsucker Great Britain and the northern parts of Furope generally It is about 12 ins long, and has a power of attaching itself to the rocks by means of its sucker The male is red and yellow in colour which varies according to conditions. In the breeding season the male watches over the cgrs for several weeks

Lunacy State of being unable to control understood, out of one's mind A mental condition, it is not always casy to define Many persons possess eccentricities or mental weaknesses but it is not always easy to decide when these pass into lunacy

In Great Britain a lunatic must be certified as such by two medical men In a rate aided Gase, only one medical certificate is necessary He or she can then be put under control and his or her property managed by some one elso

This is usually done by an application to the courts of law when a committee as it is called, is appointed to manage the lunatic s estate

To care for lunatics there are many private asylums which must be inspected, while the councils of counties and county boroughs must provide asylums For criminal lunatics there is a special asylum at Broadmoor To look after lunaties and monthly defected look after lunatics and mentally deficient there is a board of control at Caxton House West, Westminster This consists of three senior commissioners legal and medical, and a Under them are assistant com
There is a similar board for chairman missioners Scotland at 25 Palmorston Place, Edinburgh

Lund City of Sweden It is 13 m from Malmo and is famous for its university In the 12th century Lund was a flourishing seaport, but the sea has receded from it. 1676 a treaty between the Swedes and Danes was signed here Pop (1952) 25 138 Ŧn

Lundy Island in the Bristol Channel. It is on the north coast of Devon from Hartland Point, and covers Hero are two lighthouses Pop Island in the Bristol Channel. It is off the north coast of Devon about 50

Lune River of Westmorland and Lancashire It rises between Raven stonedale and Lonsdale and flows through Lancashire to Lancaster Bay Lancaster stands on it and its port Glasson, is near the mouth It is about 45 m in length

Lunenburg Town and seaport of Nova Scotia 70 m from Halifat The industries are fishing and ship ping Pop 2792

unette Architectural term for the a vault It is often used for mural painting. or the space may be filled by a circular or oval window. The term is extended also to a round or oval window in a ceiling and to a painting within a circular border and similarly placed

Menrthe, 20 m from Nancy It is a manu facturing town with engineering works rallway works, motor car works and textile mills and has an agricultural trade It is also a military station and has large barracks Pop 25 000

The Peace of Luneville was signed here Feb 9 1801 It was made between France and Austria and was a complete humiliation for

the latter The Rhine was fixed as the boundary of France and Napoleon was dominant in Italy and Switzerland where he set up several republics

Organ of respiration Lung it comprises two elastic spongy masses, each enclosed in a serous membrane or pleura, almost filling the chest cavity, and weighing in healthy adults 40 oz Communicating with the outer air through the windpipe, the wight lung is the place the left two Lung the right lung is three-lobed, the left two lobed. At their roots the bronchi are sub-divided into innumerable branches which ultimately reach tinv air-cells, furnished with capillaries through whose walls the carbon dioxide of venous blood is replaced by the oxygen of inhaled air See Pleurist, Pneumonia, Tuberculosis

Lung Fish Fish found in the rivers of the tropical parts of Africa Australia and South America. They are the surviving descendants of what may have been the transitional stage between fishes and

amphibians

The South American lung fish is shaped rather like a conger eel Its home is in the marshes along the Amazon and its tributaries, and the fish wriggles through the thick aquatic vegetation, using its hind limbs in an irregularly bipodal way. It comes to the surface to take air into its lungs. In the dry season it hibernates

Lungwort Perennial rough-haired herb of the borage order (Pulmonaria angustifolia) Locally called beggar's monaria angustifolia) Locally called beggar's basket and Joseph-and-Mary, and occasionally found wild in Hants and Dorset, its lance-shaped leaves bear pale green lung shaped spots, the funnel shaped flowers change from pink to blue *Poficinalis*, growing in old gardens, has broader root-leaves, and the blooms are sometimes white It is a native of Europa and an alternative name is Lorencian. of Europe and an alternative name is Jerusalem cowslip.

Lunn Louise Kirkby. English singer Born in Manchester, Nov 8, 1873, she studied music in London In 1893 she appeared on the concert platform and became one of the leading singers of the day For three years she was with the Carl Rosa Company, and she has sung much at Covent Garden, London, and has made frequent tours abroad

Lupercalia Roman festival It was in honour of Mars and the wolf (lupus) and was a festival of fruitfulness Sacrifices were offered by the priests, and with thongs cut from the skins of the dead animals they passed in procession The women, anxious to be fruitful, came forward to be touched with the thongs The festival was held on the Palatine Hill

Lupin Genus of annual and perennial leguminous herbs and undershrubs. They are natives of the Mediterranean region and temperate America. Some were cultivated in antiquity for human food and cattle fodder Gardeners have developed many attractive hybridised forms, annuals being derived from both eastern and western species, perennials from American only

Lupus Disease of the skin occurring in to the tubercle bacillus, develops nodules, usually about the nose, cheeks or cars, which may persist for years, ulcerate, and produce unsightly sears A milder form, lupus crythematosus, whose cause is unknown, develops

red, scaly patches which do not ulcerate These may be treated with soothing ointments, but the more serious form may need stronger caustics, or the application of Finsen-light or X-ray treatment

Lurcher Dog that is a cross between a greyhound and a collic or other kind of sheep dog. They are usually very useful for hunting hares and rabbits and for retrieving game, and are therefore frequently

kept by poachers

Lurgan Urban district of Co Armagh, Northern Ireland It is 20 m from Belfast on the GN (Ireland) Rlv The chief industries are the making of linen and the preparing of tobacco Lough Neagh is near the town Lurgan Castle, a fine modern building is the seat of Baron Lurgan, a title dating from 1839 Pop (1926) 12,553

Jusatia District of Germany It is in the east of the country, partly in Saxony In the in Prussia and partly in Saxony In the Middle Ages it was divided into two parts, Upper and Lower It was part of Bohemia and then of Hungary before it passed to Saxony and Prussia

Lusitania Name used in Roman times for a province that included Portugal and part of Spain. It is sometimes used to-day for Portugal

The Lusitania was a Cunard steamship that was sunk by a German submarine off the coast of Ireland, May 7, 1915. 1,198 persons lost their lives The vessel was one of 31,500

tons

Lute Stringed instrument It is long-necked, with fretted finger-board and pear-shaped back and was introduced into Europe by the Crusaders As an orchestral instrument it persisted until 1741, as a solo instrument until 1760, but it was in its prime in the Middle Ages

Lutetia Latin name for Paris (qv) The Lutetia town which in the time of Julius Caesar stood where is now the centre of the city was called by this name It was the chief town of a tribe called the Parisi

Lutecium Rare metallic element of the yttinum group of rare earths It has the symbol Lu and atomic weight 175 Lutecium was isolated by Urbain in 1907 from ytterbium by fractional crystallisation It occurs along with ytterbium and other metals of the same group in the mineral gadolinite from Ytterby in Sweden.

Luther Hans German statesman Born in Berlin, March 10, 1879, he studied law and became a public official, first at Charlottenburg and then in Magdeburg During the war period he was secretary of the association of German and Prussian towns, and from 1918 22 was burgomaster of Essen in Day 2022 he returned to Berlin to become and from 1918 22 was burgomaster of Essen' In Dec, 1922, he returned to Berlin to become minister of food, and in Oct, 1923 minister of finance under Stresemann He restored the German currency and in 1925 became Chancellor, in which capacity he was the German leader at Locarno In May, 1926, he resigned and became associated with the management of the state railways Hitherto without definite party ties, in 1927 he joined the People's Party

monk In 1508 he went to Wittenberg as a Russian in 1791 lecturer at the university and made a reputation in strong fortress

as a preacher

By now he had worked out a doctrine of salvation, different from that taught by the church, and in 1517 he became a national figure He challenged John Totzel a friar who was selling indulgences, to a discussion on the subject and drew up 95 theses as a basis for the debate These he fixed on a church door at Wittenberg on Oct 31, 1517 an event which is usually regarded as marking the opening of the Beformstion.

the opening of the Reformation Luther's action created a great stir in Germany, where people were becoming alive to the scandals in the church, and he soon had a considerable following, which was strength ened by his writings In 1520 the pope issued a bull condemning his views, but this was publicly burned by the reformer at Witten berg and his breach with the church was complete He did, indeed, when summoned attend the diet at Worms in 1521, but again he refused to give way in his famous sentence, Ich kann nicht anders (I can do no other)
To save him from violence he was carried off to a fortress, the Wartburg, and there he lived for about a year under the protection of the Elector of Saxony The Reformation The Reformation had been started and much of Luther's later life was passed in organising the Reformed Church in Germany He took little part in politics, but in 1525 and at other times showed himself hostile to the peasants and their grievances. In 1526 he married an escaped nun, Catherine von Bora He died at Eisleben, Feb

18, 1546 Luther's great literary work was his trans He also wrote some lation of the Bible His three chief theological popular hymns works are, On the Duty of a Christian Man An Address to the Nobility of the German Nation and On the Babylonian Captivity of the Church of God

Lutheranism Form of religion found ed by Martin Luther Its creed is contained in the confession of Augsburg, but, like other churches, it does not demand to day a literal acceptance of all the doctrines stated therein Lutheranism is strong in Germany where, after being divided into many churches, it now forms a united church, to which more than half of the population nominally belong Before the foundation of the republic it was the state church

Lutheranism is the state religion in Norway, Sweden and Denmark and is strong in the United States Its adherents, altogether, may number 60,000,000 or 70,000,000 It is governed by its ministers, by elected courts called con sistories and by synods In many ways it is rather like the Presbyterian churches, retaining a certain amount of ceremonial, including the keeping of the church festivals The singing of hymns occupies a prominent place in its

worship

Luton County borough and market town of Bedfordshire It is 30 m from London and is served by both the LMS and LNE Rlys Luton was once noted as the centre of the straw plaiting industry The chief industries to day are the making of motor cars and engineering products In 1928 the borough was enlarged Pop (1931) 68,526

Lutsk Town of Russia, on the River capital of an independent state, but it became

The Russians made it into a strong fortress Pop 30,000 In 1915 it was captured by the Germans In June, 1916 the Russians in their great offensive regained it and captured a great deal of war material Later in the year it again changed hands and the Germans retained it until peace was made with Russia in 1917

Lutterworth Market town of Leicester lt stands on the little River Swift 90 m from London, on the LMS and LNE Rlys The chief building is the fine old parish church which is associated with John Wycliffe, who was rector here, 1374 84

Lutyens Sir Edward Landseer English born in London March 20, 1869, and was trained as an architect His designs soon attracted atten standing figures in his profession. He was employed on the planning of Delhi and was responsible for Government House and other buildings there He also designed the Cenotaph in Whitehall, London, and several other war memorials, as well as Britannia House, London for the Angle Persian Oil Company He was made A.R A in 1913, a knight in 1918, and R A in 1920

Town of Germany Lutzen Prussian Saxony and is famous because near here two decisive battles have

been fought

On Nov 16, 1632, the Swedes under Gustavus Adolphus, fighting for the Protestants in the Thirty Years War, met here the army of Wallonstein. Each army was about 20 000 strong After a stern fight, in which Gustavus strong was killed, the Swedes were victorious Memorials mark the site On May 2, 1813, there was a battle here in which the French under Napoleon defeated the Russians

Luxembourg Palace in Paris now a museum On the left bank of the Seine, it was built early in the 17th century on land bought from the Duke of Luxembourg Piney as a residence for Marie Palace in Paris now de Medici widow of Henry IV After a time it fell into decay, but it was restored in 1836 and converted into an art gallery It contains a fine collection of modern paintings There are some magnificent rooms decorated in the most sumptuous style, while the gardens are large and beautiful

François Henri de Montmorene Bouteville was related to the Condó family He left France after taking part in the civil war, and went to Spain where he served in the army His brilliant career in the French sorm. army began in 1659, in 1672 he took com mand of an army and during the war against the Netherlands made his reputation In the war that began in 1689 he won victories over William III at Steinkirk and Neerwinden. He was made Duke of Luxembourg in 1661, a marshal in 1675, and died, Jan 4 1695

Luxembourg Country of Europe It is a grand duchy lying between Belgium, France and Germany, and covers 999 sq m Luxembourg, a town with 53,791 inhabitants is the capital The Arden nes cover much of the land, which is mainly an agricultural area, although iron ore is mined in the south. The chief river is the mined in the south The chief river is the Sure The government is conducted by a small cabinet and there is a council of state and

827

an elected house of 52 members The land was occupied by the Germans from 1914-18, The land and in 1919 a referendum took place to decide its future In 1922 an economic union with Belgium was made, and in July, 1932, Luxembourg joined that country and the Notherlands in a treaty for the mutual lowering of tariffs

In the Middle Ages Luxembourg was a ounty and its counts made themselves powerful rulers In 1354 their land became a duchy, and in 1443 a part of Burgundy Later it belonged to Spain and then to Austria In 1815 it was made a grand duchy, and in 1839 was divided between Belgium and the Notherlands, the part assigned to the latter country being the present Luxembourg country being the present Luxembourg In 1890, when the king of the Netherlands died, Luxembourg again became a separate state with Adolph, Duke of Nassan, as grand duke He was succeeded by a son, William, after whose death in 1912 his daughter, Marie, became grand duchess In 1919 Marie abdited by the country of her circum Chaplatta Sho cated in favour of her sister, Charlotte is married to a prince of Bourbon-Parma

Luxor Town of Egypt It is on the east bank of the Nile, 418 m from Cairo It is a tourist centre and is also visited by invalids Luxor occupies the site of the old city of Thebes, and adjacent to it is Karnak with its temple Pop 12,600 See KARNAK, THEBES

Luzon Second largest island of the Philippine group It is about 300 m long and covers 40,814 sq m. There is a mountainous area in the north and centre, and several active volcanoes Much of the soil is fertile, and tobacco, sugar and hemp are grown Minerals are abundant Manilla, the capital of the group, is in the south-west of the Island

Lyautey Louis Hubert. French soldier Born at Nanev, Nov 17, 1854, he passed through the college at S Cyr into he passed through the college at S Cyr into the army He saw a good deal of service in Algoria and Madagascar and was in Indo-China for a time He rose to the rank of general and in 1912 was appointed administrator of Morocco In 1916 he was minister of war for a short time, but in 1917 he returned to Morocco, where he remained until 1928 Lyautey's work in bringing peace and prosperity to Morocco is one of the outstanding successes of the French rule in Africa In 1921 he was made a marshal Died July, 1934

Lycanthropy Term denoting in folk-buted by popular superstition to certain human beings of being transformed, tem-porarily or permanently, into an animal, wolf, dog, tiger, hyena or jaguar Pathologists recognise a form of hysteria, called lycanthropy, in which the patient, believing himself to be an animal, acts accordingly

Lycaon In Greek legend a king of Arcadia He was turned into a wolf because he offered human flesh to Zeus when the god came to visit him Of his 50 sons 49 shared his fato

Lycaonia was the name of a district in Asia Minor Iconium was the capital, other places being Lystra and Laodicea.

Ceum Grove outside Athens near a temple sacred to Apollo Lycius As Aristotle and other philosophers taught here, the word was used later for a place of learning and this use has persisted especially in France where lycées are very common

The Lyceum Theatre in London is in Welling-The Lycsum Theatre in London is in Wellington Street, Strand It was built in 1765, rebuilt in 1816 and burned down in 1830 In 1834 the present theatre was built From 1878 to 1902 it was used by Henry Irving and Ellen Terry Later it became associated with melodrama.

The Lyceum Club is a club for women, chiefly professional and artistic It was founded in 1904 and its house is 9 Chesterfield Gardens,

London, W 1

Lych Gate Covered gate at the chief entrance to a churchyard and usually having a gable roof. It was the old custom at a funeral for the coffin to rest at the gate until the arrival of the clergyman, hence the sheltering roof. The oldest lych gate in England is said to be the one at Bray, Barks, dated 1448. Berks , dated 1448

Lyck Town of East Prussia It stands on the River Lyck, 118 m from Königsberg Near the borders of Germany, Lyck was an important place in the Middle Pop 13,400 Ages

During the Great War Lyck was occupied by Russian troops in Aug, 1914, and again in Oct On Sept 12, there was a battle near the town, the Russians being defeated and driven back

Lycurgus Spartan lawgiver He lived about 800 BC He is regarded as the creator of the constitution of Sparta, which he reformed on returning from a period of travel

Another Lycurgus was an Athenian He lived in the 4th century BC, and did a good deal to improve the finances, strengthen the navy and beautify the city He was also an erretor and 16 of his speeches remain.

orator and 15 of his speeches remain

Lydd Borough of Kent It is 71 m from London, on the S Rly The town is now an inland one as the sea has receded

is now an inland one as the sea has receded It was a Cinque Port in the Middle Ages The explosive, lyddite, was tested near here, hence its name Pop (1931) 2778

Lyddite Explosive closely resembling melinite in composition, and named from Lydd in Kent It is a mixture of pieric acid and trinitrotoluold in varying respections. proportions

Lydford Village of Devonshire It stands Lydford on the River Lyd, 7 m from Tavistock on the S Rly It is on the edge of Dartmoor and in the Middle Ages was a borough and market town. As a stannary town the courts were held in Lydford and here was the stannary prison Lydford gorge is one of the beauty spots of the district

Lydgate John English poet. Born at Lydgate, Suifolk, about 1370, he became a priest of the Benedictine order He spent some time abroad Henry IV made him court poet. From 1423 to 1434 he was prior of a religious house in Essex. He died about 1451, and was buried at Bury St. Edmunds Lydgate was an imitator of Chaucer. His chief works are The Store of Thebes. The His chief works are The Slorie of Thebes, The Troy Book, The Fall of Princes and The Temple of Glass, all based on older romances

Lydia Kingdom that existed in Asia began It came into existence after 700 B C., and was most flourishing under the rule of Croesus, when it included a good part of Asia Minor In 546 Croesus was defeated by the Descine and Lydia become subject to the Persians and Lydia became subject to the Persian kings It recovered its independence in 334, but only for a brief time In 133 B C.

it was included in the Roman Empire Its capital was Sardis It is said that metallic coinage was first used in Lydia

Lydney Town of Gloucestershire It from Chepstow, and is reached by the GW Rly There are coal mines in the neighbour hood In Lydney Park, the seat of Lord Bledisloe, Roman remains have been found

Lye Term applied to a solution of caustic potash or soda or the alkaline car bonates It was originally prepared by the extraction with water of impure carbonate of potash from wood ashes for use in soap making Lyes are used for cleansing purposes and the removal of grease from fabrics, etc., also for refining petroleum and in tanning

Lyell Sir Charles British geologist He was born in Angust, Nov 14, 1797, the son of Charles Lyell, a botanist, and went to Exeter College, Oxford He became a barrister, but gave his time to travel and the study of geology In 1832 33 he was professor of King's College, London, and in 1864 was president of the British Association In 1848 he was made a knight, and in tion In 1848 he was made a knight, and in 1864 a baronet He died Feb 22, 1875 Lyell's work had a great influence on the

Lych's work had a great influence on the modern study of geology His chief book is The Principles of Geology, a standard work on the subject He also wrote, The Geological Evidences of the Antiquity of Man and left Letters and Journals, which were published in

1881

Lyly John English writer He was born in Kent in 1553, and studied at Oxford and Cambridge He entered the service of Lord and Campridge He entered the service of Lora Burghley, and for 20 years was responsible for the entertainments at the queen's court. In 1589 he was elected an M P Lylv is known as the author of Euphues, the publication of which in 1579 80 is an important event in English literature. It is a prose romance the first of of Wit and Euphues and his England Euphues was an Italian gentleman whose adventures are related The book, which was very popular created the word cuphulsm for a style of writing in which similar ellipsion and activities. writing in which simile, allusion and antithesis are used to excess Lyly wrote eight plays, or masques for the court, among them are, Sappho and Phao, Endymion, Mother Bombie and The Woman in the Moon He dled in London in Nov 1606

Lyme Regis Borough, seaport and It is on Lyme Bay, 150 m from London, on the S Rly There is a harbour and some the S Rly shipping, while quarrying is an industry, but the place is less prosperous as a scaport than it was in the Middle Ages From 1295 to 1817 Lyme Regis, which was in early times the king's property, was separately represented in Parliament. The place is mentioned by Jane Austen and here the Duke of Monmouth landed in 1685. Pop (1931) 2620

Lymington Borough, scaport and market town of Hampshire it stands at the mouth of the Lymington River 18 m from Southampton, and 90 from London on the S Rly The place is a yachting centre and from here steamers go to the Isle of Wight Until 1885 it sent members to Parliament Pop (1931) 5157

The Lymington River rises in the New Forest and flows into the English Channel just beyond Lymington.

Lymington.

Lymm Lymm Urban district of Cheshire between the north of the county, it is situated on the Bridgewater Canal, and is practically a suburb of Manchester. It is 187 m from London by the LMS Rly (1931) 5642

Lymph Name given to the colourless fluid consisting of a plasma identical with blood plasma. It is conveyed through lymphatic vessels to the lymphatic glands, where leucocytes or white blood corpuscles are added to the plasma and finally to the capillaries. The work of the lymph is to carry nutriment to the tissues and to be the place of the lymph is to carry nutriment to the tissues and to be the place. Name given to the colourless return waste products to the blood. The lymph glands not only form white blood corpuscles but also aid in destroying the toxins of microbes

Lympne Village of Kent. It is 2 m hythe, and is chiefly known as an air station. This was established in 1915 and until the end of the Great War was used for military purposes It was then converted into a station on the route from the Continent to London

Lynch Law Name given to the system by which people take the law into their own hands It was very usual in North America in the 19th century, as it was also in various parts of Europe, while it is not unknown to day It appears to flourish where racial antagonism is extent and authority somewhat week and is strong and authority somewhat weak, and crimes against women make a special appeal to it The name is that of a farmer in Virginia named Charles Lynch, who in the 18th century, was a leader of those who took summary rengeance on black men for offences against the whites

the whites

Lynd Robert. British writer and critic Born in Belfast, the son of a Presbyterian minister, April 20, 1879, he was educated there After graduating at Queen's College, he settled in London and joined the staff of The Daily News After a time he became the literary editor of that paper, a post he retained when it became The News Chronicle He wrote also a good deal for weekly and other periodicals, chiefly reviews weekly and other periodicals, chiefly reviews of books and essays His many published books include, Home Life in Ireland, The Art of Letters and The Peal of Bells His wife, Sylvia is also a writer both in prose and verse

Lyndhurst Town of Hampshire It is in the New Forest, 9 m from Southampton, on the S Rly It is a centre for visitors to the Forest In August there is a sale of forest ponies here contains frescoes by Lord Leighton

Lyndhurst Singleton Copley, a son of the artist, John S Copley, R A, was born at Boston, U S A, May 21, 1772 He was educated at Trinity College, Cambridge, where he was second wrangler and became a barrister In 1818 he entered the House of Common as M P for Yarmouth, and in 1819 he was made solicitor general, in 1824 he he was made solicitor general, in 1824 he became attorney general In 1827 Copley, now a leading figure among the Tories, was made lord chancellor and a baron He left office in 1830, but was again lord chancellor, 1834 35 and 1841 46 From 1830 34 he was chief baron of the exchequer He died Oct 12, 1863, when his title became extinct

Lynmouth Watering place of Devon shire It stands where the East Lyn and the West Lyn meet, 18 m. from

A cliff railway runs from here to of the island Barnstaple Lynton, which stands much higher There is a harbour and steamers go from here to Bristol and Ilfracombe Near is the beauty spot called Watermeet. There

Urban district and watering place of Devonshire It is on Lynton place of Devonshire It the north coast, 17 m from Barnstaple Pop (1031) 2012

Class of animals belonging to the Lynx cat family (Felis) It is found in Europe, Asia and North America, though it is not so common as it was formerly. At one time it lived in England The animal is larger and heavier than the cat and has a short tail and bearded cheeks. There are several species, and bearded checks. There are several species, and the fur varies in colour from white to quite dark. All are savage and feed on birds and small mammals, but will attack larger ones, such as sheep and goats.

Lyon Word used in Scottish heraldry. It is a form of lion. The herald's contact the August and th

office for Scotland is called the Lyon Court and its head is the Lyon King of Arms who is registrar of the Order of the Thistle He is assisted by three heralds, Marchmont, Albany and Rothesay, and three pursuivants, Carrick, Falkland and Unicorn His office is in the

Register House, Edinburgh

Lyonesse Name of a country now supposed to be submerged. It was off the north coast of Cornwall and may have included that county. Breton and Cornish folklore contain many references to it. It was the land of Arthur and his knights, and Camelot was its chief town.

Lyons City in castern France First occupied by the Romans, it is now the capital of the Rhône department, with a population

of the Rhône department, with a population of 579,763 It stands where the Rivers Saône and Rhône meet, and has fine bridges, quays, and some docks The cathedral of S Jean was begun in the 12th century

Lyons is the seat of an archbishopric, and Lyons is the seat of an archbishopric, and the headquarters of an army corps. Its educational facilities include a university and the earliest veterinary school in Europe Silk is the foremost industry, and has developed rapidly since 1450. Artificial silk is also manufactured, there is a large dye industry, and trade in cloth, coal and metals wines and chestnuts. Everyations in 1933 uncovered extensive Roman ramains, including a magniextensive Roman remains, including a magnificent amphitheatre It has two broadcasting stations (465 S M, 15 kW, and 287 6 M, O 7 kW)
Since 1916, an International Fair has been held annually at Lyons

Cir Lorent British business man

Lyons Sir Joseph British business man The son of Nathaniel Lyons, he was born in London He was educated by the Jows and studied art In 1894, having forescen the possibilities of the catering business, he opened a tea shop in London, and this was the first of many Hotels were added and the firm opened factories to produce many of the products sold, the result being that it became the largest business of its kind in the land In 1911 Lyons was knighted and he died June 22, 1917

Lyons Joseph Aloysius Australian politician Born in Tasmania, Sept. 15, 1879, he finished his education at the university of Tasmania and became a teacher In 1909 he was elected to the legislature of the state in the Labour interest and from 1914-16 he was treasurer and minister of education. From 1923 to 1928 he was prime minister

In 1929 Lyons was elected to the House of Representatives of the Commonwealth and at once joined the ministry Mr Scullin as postmaster general and minister of works He was acting treasurer during Mr Scullin's absence in London in 1930, but in Jan, 1931, he resigned as he differed from some of his colleagues on the vital question of handling the grave financial situation. He came forward as the leader of the party that stood for meeting all obligations, and at the end of the year he and his followers scored a great success at the general election Lyons then became prime minister (1931) He formed a Coalition Ministry Nov, 1934, and visited England for the Jubilee in May, 1935

Lyre Musical instrument From a hollow sound chest rise two curving arms (sometimes hollow) connected by a cross-bar, from which seven or more strings run to another cross-bar on the sound chest These are touched by the left hand The instrument was much used by the Greeks who sometimes played it with a small stick or plectrum

Lyre Bird Genus of perching birds Resembling in size the domestic fowl, the males after the third year, develop in the breeding season handsome tails, much longer than themselves, which are displayed peacockwise in the form of stringed lyres species imitate the notes of other birds are found in Australia only

Lyric Originally a song sung to the accompaniment of the lyre, but to day a form of poetry. It is opposed to epic or narrative poetry and is much more an effort of the imagination. The lyrics in the great Greek plays are among the finest in existence, notably those in Hippolytus and other plays of Euripides translated into English by Gilbert Murray Pindar, Anacreon, Alcaeus, Sappho and other Greek poets also wrote beautiful lyrics

In English poetry the lyric has a firm place There are some in the plays of Shakespeare, for instance in, As You Like It, and writers of the lyric flourished in Tudor times from of the lyric flourished in Tudor times from Thomas Campion to Edmund Spenser But apart from Shakespeare, the greatest writers of the lyric belong to the 17th century, and those written by Sir John Suckling, Robert Herrick, Lovelace and others are an imperishable part of English literature Only less notable are the religious lyrics of George Herbert and Henry Vaughan As a lyrist the name of John Donne should be mentioned.

The 18th century was not favourable to the lyric, but the poets of the 19th made good use Perhaps Shelley is the supreme genius in this form of verse, but Keats, Tennyson and Swinburne, Wordsworth and Browning also wrote some wonderful lyrics

Lys River of Europe It rises in France in Sand soon passes into Belgium It is 120 m long and falls into the Schelde at Ghent,

There was a good deal of fighting along the course of the river during the Great War, especially when, in October, 1914, and again in April, 1918, the Germans made efforts to control the Channel ports

Lysander Spartan statesman He lived in the 4th century BC, and became prominent during the war with Athens as commander of the fleet He secured aid from the King of Persia, but his greatest exploits were his victory over the Athenian

fleet at the battle of Acgospotami and the capture of Athens, events which ended the Peloponnesian War in favour of Sparta. He was killed when fighting the Thebans in 395 BC His life was written by Plutarch Lystra City of Asia Minor It is now called Khatyn Serai S Paul visited it on his travels there Ho and Barnabas were taken by the people for Jupiter and Marcury (Acts xiv)

Lytham-St -Anne's Watering place and market town of Lancashire It stands on the estuary of the Ribble 6 m from Blackpool, on the LMS Rly The place, which has two plers, promenade and gardens, consists of Lytham and St Annes which, until 1922, were separate urban districts Pop (1931) 2576

Lyttelton Town and seaport of New Zealand It is in South Island, 7 m from Christchurch and has a fine natural harbour, around which docks have been built Much of the produce of the Canter bury district is exported from here Pop

3800

Lyttelton Alfred English politician and athlete The youngest son of the 4th Lord Lyttolton, he was born Feb 7, 1857, and went to Eton and Trinity College Cambridge He became a barrister and a K C and in 1895, as a Liberal Unionist, was elected M P for Warwick and Leamington In 1902 he went to the Transval on public business and on the return to England in 1902 in 1902 ne went to the Transvaal on public business and on his return to England in 1903 succeeded J Chamberlain as colonial secretary He held office until 1905, being chiefly concerned with the question of Chinese labour in the S African mines In 1906 he lost his seat at Warwick, but was soon elected for S George's, Hanover Square, and was in the House of Commons until his sudden death, July 5, 1913 His only son is Captain Oliver Lyttelton, D S O His first wife was Laura, a daughter of Sir Charles Tennant, Bart., and sister of the Countess of Oxford, the second was Miss Edith Balfour who wrote his Life Lyttelton was a superb athlete At cricket he was captain of Eton and Cambridge and played for England against Australia. He represented Cambridge and England at association football, and he was the amateur racquets champion, 1882 to 1895

Of Alfred Lyttelton s seven brothers, the most notable perhaps wore, Sir Nevillo Gerald Lyttleton, the fourth, and Edward Lyttleton, the seventh. The former entered the army and held high commands in the South African War (1899 1902) From 1904 12 he was commander in-chief in Ireland and from 1912 business and on his return to England in 1903

War (1899 1902) From 1904 12 he was commander in-chief in Ireland and from 1912 until his death July 6, 1931, was governor of Chelsea Hospital

Edward was captain of the Cambridge cricket eleven He became a schoolmaster and a clergyman From 1890 to 1905 he was head master of Haileybury and from 1905 to 1916

of Eton

Lyttelton Baron English title borne Eugene Aram, Ernest Mall by the family of Lyttelton. Morning and The Paristans

George Lyttelton, an MP, was made a baron in 1756 He was related to the Temple family and was associated politically with Chatham. When his son, Thomas, who succeeded him, died Nov 24, 1779 the title became extinct.

In 1794 the barony was revived for William Henry Lyttelton, an uncle of the last holder He was succeeded in turn by his two sons In 1837 a grandson, George William Lyttelton, became the 4th baron. He was a fine scholar, having been senior classic at Cambridgo, and a politician. He was known too, as the brother in law of W. E. Gladstone and the father of eight sons, who won fame in various fields of activity, not least as cricketers. He died April 10 1876 His eldest son, who Succeeded, inherited in 1889 the title of Viscount Cobham (qv) Hagley Hall in Worcestershire has been the seat of the Lytteltons for some 800 years

Lytton Earl of English title held by the family of Lytton Edward Robert Lytton, a son of Baron Lytton, was born in London, Nov 8, 1831 He went to Harrow and entered the diplomatic service in Harrow and entered the diplomatic service in 1849 Having gained experience in Paris, Vienna and elsewhere, he was made ambas sador to Portugal in 1874 From 1876 to 1880 he was governor general of India and from 1887 91 was ambassador in Paris. In 1873 he became a baron and in 1880 an earl He died in Paris, Nov 24, 1891 Lytton wrote verse under the name of Owen Meredith

Victor Alexander George Robert Lytton, who became the 2nd earl in 1891, was a grandson Born Aug 9, 1876, and educated at Eton and Trinity College, Cambridge he held positions in the coalition ministry between 1916 and 1921 and from 1922 to 1927 was governor of Bengal He wrote the Life of his grandfather Lord Lytton In 1932 he went out to Man churle as head of a mission cont by the Lord churla as head of a mission sent by the League of Nations Lord Lytton's seat is Knebworth House Hertfordshire. His eldest son, Viscount Knebworth, lost his life flying in May, 1933

Lytton Lord English novelist. Edward George Earle Bulwer-Lytton was born in London, May 25, 1803 His father, Earle Bulwer, was a soldier and his mother a member of the old family of Lytton He was educated privately and at Cambridge, and in 1831 became MP for St Ives and in 1832 for Lincoln, he lost his seat in 1841, but from 1852 to 1866 was M.P for Hertfordshire In 1858 59 he was secretary for the colonies and in 1866 he was made a baron Lytton died at Torquay, Jan 18, 1873, and was buried in Westminster Abbey

Lyttons fame rests solely upon his novels and plays, although to day these are rather and plays, atthough to day these are rather neglected, as being too sentimental and perhaps too tedious. In their time, however, they enjoyed great popularity. The best are The Last of the Barons, The Last Days of Pompen, Renzi and Harold Others are Paul Clifford, Pelham, The Cazions, Zanoni, Eugene Aram, Ernest Maltravers, Night and Morning and The Pagistians.

AARTENS Maarten taken by the Dutch novelist, Joost Marius Willem van der Poorten Schwartz Poorten Schwartz He was born in Amsterdam, Aug 15, 1858, and was educated in

became a lecturer in law at the University of Utrecht, but soon adopted the career of a writer His novels, stories of Dutch life, were published in both English and Dutch The best of them are The Sin of Joost Avelingh, A Question of Taste, God's Fool, My Poor Relations, The Woman's Victory, The New Religion and Brothers All He died Aug 5,

Maastricht Town and river port of the Netherlands It is on the Meuse near the frontier of Belgium, 16 m from Liege The town has some manufactures and a trade along the river where there are large docks Pop (1932) 61,763

Title Mabinogion The Title given by Lady Charlotte Guest to her English translation of eleven Welsh prose tales from the 14th-century Red Book of Hergest. They include four Irish mythological romances, called the four branches of the Mabinogi, the ancient stock-in trade of young bardic aspirants, associated with old Welsh tales and Arthurian romances The Mabinogion was first published in 1838

Mablethorpe Urban district and watering place of Lincolnshire It is 13 m from Louth, on the LNE Rly There are good sands and bathing Pop (1931) 3928

Mabuse Jan Gossaert De Flemish Painter He was born about 1472 and took the name of Mabuse from his 1472 and took the name of Mabuse from his birthplace, Manbeuge He became a painter and passed some time in Italy He was in the service of the Duke of Burgundy for some years and died Oct 1, 1532, at Antwerp Mabuse is represented in the National Gallery, London, by "The Adoration of the Kings."

Mac Scottish word meaning "son" It has become part of a large number of surnames common in Scotland and N Ireland. In these it is sometimes spelled simply M or Mc In all cases the rule is to yocalise them as if they were all spelled out Mac

McAdam John Loudon Scottish en-Sept 21, 1756, and is famous for his introduc-tion of the use of firmly embedded layers of small pleces of granite or similar material for small pieces of granite or similar inaurial for road surfaces, a method since known as macadamising. He was appointed Surrevor-General of Roads in the Bristol area in 1815, and of the Metropolitan area in 1827. He died Nov 26, 1836.

IVIACAO Colony in China belonging to follow the portugal of the filling of the canton river and the

island of Macao in the Canton river and the smaller islands of Taipa and Coloane The is mostly in the hands of Chinese The transit trade is mostly in the hands of Chinese The Portuguese settled here in 1557 Pop (1928) 157,175

Made from the hard wheat, rich in glaten, habitually cultivated in S Europe, the flour is kneaded into paste, inserted in a cylinder with perforated ends, pressed out in tubular form and stove-dried

Macaroni Travelled exquisites who modes as well as macaroni into late 18th-century England. Forming the Macaroni Club (Charles Inc.) Club (Charles James Fox being a member) they wore towering perukes, diminutive hats, striped or spotted breeches with beribboned ends, frilled shirt fronts and large white cravats Macaroni women outrivalled them in extravagance of head-dress.

Macartney Earl British adminis-was born in Co Antrim, May 14, 1737, and was educated at Trinity College, Dublin was educated at Trinity College. Dublin In 1764, having joined the public service he went to Russia where he made a commercial treaty From 1769-72 he was Chief Secretary for Ireland, and from 1780-86 Governor of Madras He was the first ambas-sador to China, 1792-94 and from 1796-98 Governor of the Cape of Good Hope He was made a baron in 1776 and an earl in 1792 He died May 31, 1806, when his titles became extinct

Macassar Seaport and capital of Celebes, Dutch E Indies Situated on the SW coast, it exports timber, coffce, copra, rubber and other forest products Pop 86,662

Macassar Strait, about 550 m long, with a maximum breadth of 87 m, separates Celebes from Borneo by a deep oceanic channel E of the Sunda continental shelf

the Sunda continental shelf

Macassar Oil is the trade name of a hair oil originally made from a Mauritius iron wood or from the Indian kosumba tree Pale or golden, its ingredients sometimes include coconut or safflower oils

Macaulay Lord English historian Thomas Babington Macaulay was born at Rothy Temple, Leicestershire, Oct 25, 1800, his father being Zachary Macaulay, a London merchant. His early home was at Clapham where his parents were members of the Evangelical sect In 1818 he entered Trinity College, Cambridge, where he had a very brilliant career, and in 1824 he was made a fellow He became a barristor, but earned a living by writing, chiefly for the Edinburgh Review

A convinced Whig, Macaulay was, in 1830, returned as MP for the pocket borough of Calne In 1833 he was elected for Leeds, but in 1834 he left Parliament to become legal advisor to the Council of India There he remained for four years, and left his mark remained for four years, and follows have upon the legislation of the country. In 1839 he was elected MP for Edinburgh, and joined the Whig ministry as Secretary of War He left office in 1841, but returned as Paymaster-General in 1846. In 1847 he lost his matter-General in 10x0 in 10x1 he 10x1 his seat but was given one of the members for Edinburgh, 1852-56 In 1856 he was made a baron and on Dec. 28, 1859, he died unmarried and was buried in Westminster Abber

Macaroni Form of farinaceous food, The chief of Macaulay's writings are his chiefly prepared in Italy Essays, his History of England and his poems,

especially The Lays of Ancient Rome. The Essays show him as a descriptive writer of the first rank, but are more remarkable for the wealth of his knowledge and the fulness and aptness of his allusions. As exercises in criticism they are also notable, especially, perhaps, the one on Milton. The first volume of the History appeared in 1848, but it was unfinished when the author died, the fifth and last volume being published in 1861. As a poet Macaulay wrote vivid, swinging verse, full of lines that linger in the memory as do some of his great prose passages. In their own sphe. The Lays of Ancient Rome and The Armada are unrivalled.

Macaulay essavist. She spent her childhood in Italy and was educated at Oxford Her publications which are marked by a lively humour, include What Not, 1919, Potterism, 1920, Dangerous Ages 1921 Mystery at Genera, 1922, Told by an Idiot 1923 Orphan Island, 1924, Creive Irain, 1926 Keeping up Appearances, 1928, Staying with Relations 1930, two books of verse, 1914 and 1919 A Casual Commentary essays, 1925, Some Religious Elements in English Literature, 1931 They Were Defeated, 1932, Millon, a bio graphy, Going Abroad and The Minor Pleasures of Life, 1931 Personal Pleasures, 1935

Macaw Genus of long tailed S American parrots (4ra) They range from Mexico to Paraguay The commonest are the blue and yellow the red and vellow and the hyacinthine Distinguished by their gorgeous plumage, some of them 3 ft long, including tail, they are gregarious torest denizens and incorrigible screamers

Macbeth King of the Scots He became throne by murdering Duncan He reigned for 17 years, and was killed during a battle with Duncan s son, Malcolm, and his English ally Siward, Earl of Northumbria The story as told in Holinshed s Chroncle is the basis of one of Shakespeare's greatest tragedles

McBey James Scottish painter and Born at Newburgh, Aberdeenshire, Dec 23, 1883, he entered a bank at 15, but studied art privately, and began etching at 17 His first exhibition was in London in 1911 He has made etchings of Scotland, Wales, Holland, Spain, Venice Morocco and Fiance, and 1917 18 was official artist to the Fgyptian Expeditionary Force

Artist to the Fgyptian rypersistant Maccabees Jewish ramily disting the revolt against Strian tyranny, 2nd contury BC Attempts under Antiochus Epiphanes to establish pagan altars in Palestine were forcibly resisted by Mattathlas, an aged priest of the Hasmonean family, who fied to the mountains with his five sons John Simon, Judas Eleazar and Jonathan, 168 BC After his death the war was continued under his son, Judas Maccabaeus, whose name 'hammer,'' came to designate the family After protracted struggles he retook Jerusalem restored the Temple service and was slain in battle 161 BC. The revolt ended in a Jewish monarchy under Roman sanction. The Old Testament Apocrypha include two historical books on this period, 1 and 2 Maccabees.

McCardle Henry Alfred British Judge Born in Edgbaston July 18 1869 he was called to the Bar in 1894, and in 1916 became a Bencher of the Middle Temple

and a judge of the High Court. His advanced views and outspoken comment on social affairs made the 'bachelor judge" a famous figure He died in 1933

He died in 1933

McCarthy Lillah English actress She
McCarthy was born at Cheltenham,
Sept 22, 1875, and educated there She has
played leading parts in England, Australia
and the United States with Wilson Barrett
and in Shaw plays between 1905 08 She
assumed management of the Little Theatre
in 1911, playing Margaret Knox in Fanny's
First Play, and later played with Sir Herbert
Beerbohm Tree and Sir Martin Harvey
She became manager of the Kingsway Theatre
in 1912 and 1919 and produced plays by Eden
Phillpotts and Arnold Bennett, afterwards
playing with Matheson Lang in The Wandering
Jew In 1920 she married Sir F W Kebble

Macclesfield Borough and market town of Cheshire II stands on the little river Bollin, 18 m from Manchester and 166 from London, on the L MS Rly A canal connects the town with the Grand Union system The chief industry is the manufacture of slik Pop (1931) 34,902

McClintock Sir Francis British satior born at Dundalk on July 8 1819, and entered the navy in 1831 For tracing of the fate of Sir John Franklins expedition to the Polar Regions he was knighted in 1860 He wrote The Fate of Sir John Franklin He later sounded the North Atlantic for the electric cable and was created a KCB in 1891 He died Nov 17, 1907

MCCormack John Irish vocalist
14 1884, he was educated in Dublin, where he
sang in the choir of the Roman Catholic
eathedral He then went to Milan for study,
and in 1907 appeared for the first time in
opera in London Possessing a beautiful
tenor voice he sang for several seasons at
Covent Garden, also in concerts in London,
New York Napies, Melbourne and elsewhere
His singing of Irish folk songs was also noteworth, In 1917 he became an American
citizen, and in 1924 the pope made him a count
and an official at the papal court.

Maccunn Hamish Greenock, March 22 1868, he studied music in London From 1888 94 he was Professor of Harmony at the Royal Academy of Music London His works include the opens Jeannie Deans and Diar mid some cantatas and the popular overture Land of the Mountain and the Flood Maccunn died Aug 2, 1916

Macdonald Name of a famous Scottish clan They were power ful in Argylishire and the Islands in the 12th century, or earlier, and claimed the position of honour on the right in battle Their chief tain was the Lord of the Isles Later Macdonalds settled in other parts of Scotland and there were Macdonalds of Glencoe and other branches

Macdonald Flora Scottish heroine She was born in 1722 and came into notice in 1746 In that year Prince Charles Edward escaped to the Hobrides after Cuiloden Flora secured a passport for berself and her servants one of whom was the disguised prince, and succeeded in taking him to Portree and so enabling him to escape to France She was later put in prison, but was released in 1747 In 1750 she married

Allan Macdonald, and went with him to America where he served in the British Army against the colonists She came home in against the colonists She came home in 1779, and died at Kingsburgh, March 5, 1790

MacDonald George Scottish writer Born Dec 10, 1824, at Huntly, Aberdeenshire, he was educated at the University of Aberdeen, and was minister at Arundel and Manchester For reasons of health he soon gave up the ministry and devoted himself to writing and lecturing He lived a good deal at Bordighera, but died at Ashtead, Surrey, Sept 18, 1905

MacDonald was a popular author, although the dialect in his novels makes them irksome to some readers They include David Elgubrod, Alec Forbes of Hovglen, Robert Falconer, The Marquess of Lossie, Sir Gibbia and Salled with Fire, and reflect Scottish life and ideas of the time For children, with almost equal success, he wrote At the Back of the North Wind and The Princess and the Goblin His many poems include Where do you come from, baby dear, and the Diary of an Old Soul Old Soul

MacDonald James Ramsay British politician He was born at Lossiemouth in humble circumstances, Oct. 12, 1866, and educated at the elementary school there Settling in London he worked as school there Settling in London he worked as a clerk and then as a journalist He became identified with the Fabian Society and the Labour Party and was soon an influential member of the group that inspired this movement He edited The Socialist Review and wrote a good deal on Socialism In 1900 he was made Society of the Labour Party. was made Secretary of the Labour Party, a post he held for twelve years, and for the next twelve he was its treasurer From 1900 to 1904 he was a member of the London County Council

In 1895 MacDonald stood for Parliament for Southampton, but failed to secure election, as he did at Leicester in 1901 In 1906 he was returned for Leicester and he held the seat was returned for Letester and he held the seat until 1918 when, owing to his pacifist ideas during the Great War, he was defeated He was absent from Parliament until 1922, when he was returned for the Aberavon division of Glamorganshire, a seat which he exchanged in 1929 for the Seaham Harbour division of

Durbam Durham

Having been from 1906 to 1909 Chairman of the Independent Labour Party, MacDonald was, in 1911, chosen leader of the Labour Party in the House of Commons He held this position until 1914, and returned to it in 1922, when the Labour Party was the official opposition in Parliament As leader he was called upon in Jan 1924, to form a ministry and he became the first Labour Prime Minister in Great Britain He also filled the office of in Great Britain He also filled the office of Foreign Secretary until the ministry fell before the end of the year Having been leader of the Opposition for a period of nearly five of the Opposition for a period of nearly five years, he was called upon, after the general election of 1929, to form the second Labour Ministry. This was in office under his premiership until a financial crisis led to its break-up in Aug 1931. With a few colleagues and followers MacDonald acted with the other two political parties and a National Government was formed, with himself as premier This was confirmed in office when the general election of Oct 1931, sent an immense majority to its support in the House of Commons MacDonald himself won a signal victory at Seaham over a Socialist opponent. In 1932

he underwent two operations on his eyes, but was able to preside over the Lausanne conference in July

In June 1935 for reasons of health he resigned the premiership in favour of Mr Stanley Baldy in and took over the Lord Presidency of the Council Defeated at Seaham Harbour at the General Election of Nov, 1935, he was elected to represent the Scottish Universities in Feb. 1926, pateintally Chilentens.

in Feb 1936 retaining his Cabinet post
MacDonald has travelled very widely and
is a man of considerable culture. His books is a man of considerable culture. His books include Socialism and Society, Labour and the Empire, The Awakening of India, The Socialist Movement, Parliament and Revolution, Wanderings and Excursions, and a Memoir of his wife In 1912-14 he was a member of the royal commission that inquired into the public services of India, and he has received numerous academic and other honours

MacDonald married, in 1896, Margaret Ethel, daughter of J. H. Gladstone, the eminent scientist, a woman of unusual gifts She died in 1911, leaving five children. One on Malcolm was returned as M. P. Continued in 1915, and the continued in the continued of the c 1896. Margaret Gladstone, the son, Malcolm, was returned as MP for the Bassetlaw division in 1929 and again in 1931 In 1931 he was appointed Under Secretary for the Colonies and in June, 1935, Secretary of State for the Dominions Though defeated in State for the Dominions Though defeated in the Election of Nov, 1935, he was returned for Ross and Cromarty in Feb, 1936, and continued in office

Macdonald Sir John Alexander Candian statesman Born in Glasgow, Jan 11, 1815, he went to Canada as a child, his parents settling at Kingston In 1836 he became a barrister and was elected to the legislature of Ontario in 1844, becoming prominent as a politician In 1866 he was made Premier of Ontario and Attorney-General and he was the leader of those who worked for the confederation of Canada When, in 1867, the Dominons came into being, Mac-donald was selected as the first Prime Minister. He retained this office until 1873 and returned to it in 1878 remaining Prime Minister until

to it in 1878 remaining Frime aminister until his death at Ottawa, June 6, 1891
Macdonald, the leader of the Conservative Party, was responsible for enlarging the federation by adding British Columbia to it. He was knighted in 1867, and on his death his widow was made a baroness. His residence,

Earncliffe, Ottawa, is now public property

Macduff Thane of Fife He is said
to have lived in the 11th
century and to have taken part in the rising
against Macbeth He appears in Shakespeare's plays

Macduff Burgh, market town and seaport of Scotland It stands at the mouth of the river Deveron, 50 m from Abordeen, on the LMS Rly There is a modern harbour for the shipping and the fishing Pop (1931) 3276

The eldest son of the Duchess of Fife is called the Earl of Macdulf

Mace Spice prepared from the fleshy dried in the sun and possesses aromatic properties, which render it of use for flavouring

perties, which render it of use for flavouring Mace Staff with a massive head, formerly Mace a weapon of war but now used as a symbol of authority In early times its use as a weapon was allowed to mediaeval clerics who were forbidden to shed blood by the sword. As it came into ceremonial use it became more ornate and was often richly decorated In the House of Commons the mace is laid on the table while the Speaker is in the chair

Territory in the Balkan Peninsula. It stretches Macedonia Peninsula. from the western frontier of Bulgaria to the

Gulf of Salonika

Western Macedonia is mountainous and con tains three large lakes, Ochrida, Presba and Ostrovo Eastern Macedonia has two valleys, watered by the rivers Varda and Struma Agriculture is the chief occupation, and there is much iron ore and magnesite, so far scarcely developed The chief towns are Salonica, Monastir, Uskub and Adrianople Agriculture is the staple industry

Macedonia became strong after 359 BC under Philip and Alexander the Great and under Philip and Alexander the Great and held swav over the rest of Greece until con quered by Rome in 168 BO Peopled later by Slavonic races, it was part of the Bulgarian empire from 800 1000 and after a hundred years of Sorblan rule, fell to the Turks in 1689 From 1876 there were constant revolts of the Chyleting Bulgarians against the Turks and Christian Bulgarians against the Turks, cul

minating in a great massacre in 1903

minating in a great massacre in 1903
Macedonia was a field of battle during the
Balkan wars and after 1913 was divided
between Greece and Serbia, but when the
World War broke out in 1914, Allied troops
were sent to Salonica, and Bulgaria being
eventually defeated, Macedonia was divided
after 1919 between Greece and Yugoslavia

McEvoy Ambrose English portrait painter Born at Crudwell Wiltshire, Aug 12, 1878, he was encouraged by his father to take up art and entered the Slade School in 1893 He became friendly with Augustus John, and soon galned a reputa-tion for clever portraits in line and wash, and became a fashionable portrait painter He was elected A R.A in 1924, and died Jan 4, 1927

Macfarren Sir George Alexander British musician Born in London, March 2, 1813 he was the son of George Macfarren, a writer of plays He studied at the Royal Academy of Music where studied at the Royal Academy of Music where in 1837, he was made professor In 1875 he was made principal of the college, and he was also Professor of Music at Cambridge but he was perhaps better known as the conductor of the orchestra at Covent Garden Theatre from 1845 to 1875 In 1883 he was knighted, and he died Oct. 31, 1887 Mac farren composed many operas, several can tatas and oratorios as well as many other pleces. He wrote books on harmony and other subjects In 1865 he became blind subjects In 1865 he became blind

Macgill Patrick. Irish novelist and poet He was born in Donegal in 1890, and was educated at a mountain school He worked between the ages of 12 and 19 about the farm and as a navvy, and joined the staff of the Daily Express in 1911 He war His books include Songs of a Navvy, Songs of the Dead End, The Great Push, Soldier Songs, Glemmoran Moleskin Dee (a play), Fear and Suspense (a play produced in London in 1930)

McGill University University in two founded at Montreal by money left by James McGill and dates from 1821 Since James McGill and dates from 1821 Silices
then it has had other benefactors including
Lord Strathcona The university has a
fine range of buildings on Mount Royal at
Montreal and facilities in the shape of labora
tories libraries etc for every branch of
study There are residential halls and several
theological and other colleges are affiliated

to the university It is open to women equally with men

Macgillicuddy's Reeks
Chain of mountains in Co Kerry, Irish Free
State Carrantuohill (3414 ft), the highest
of the range, is also the highest peak in Ireland.

Machiavelli Niccolo Italian writer ence May 3 1469 his father being a lawyer He entered the service of the city and from 1498 to 1512 occupied a high position being sent on several missions to foreign rulers. In 1512, on the return of the Medici to power, he lost his position and was for a short time in prison. He then went to live in the country, and read read the three with his death. I you say and remained there until his death, June 20, 1527 He was buried in Santa Croce, Flor ence

Machiavelli's masterplece dedicated to Lorenzo the Magnificent is Il Principe or The Prince one of the world s great manuals of statecraft It is based on the theory that the ruler, or prince, is justified in taking any steps that will maintain his supremacy. The state under his control is neither moral nor immoral it acts without regard to morality, and thus the ruler may if necessary, resort to deceit and treachery He also wrote A History of Florence, The Art of War and Discourses on the First Decade of Titus Livius

Machicolation Series of corbels or supporting the parapet or battlements in mediaeval castles or fortifications. Openings between the corbels were left in the overhanging stone floor of the rampart to allow of the discharge of missiles upon an attacking force

Machine Gun Firearm provided with a mechanism for the rapid discharge of rific bullets or small shells The mechanism increases the rapidity of charging, the firing and the ejection of spent cartridges

In the mitralleuse type, the gun was worked by turning a handle the Gatling gun by means of a crank, the Nordenfelt by a lever action, the Gardner by use of a winch In the Maxim gun automatic action was introduced, a spring recoil being used, and a similar action is seen in the Vickers type The Hotohkiss gun is worked by the action of the propellant gases upon a piston mech

In 1915 a Machine Gun Corps was formed It was divided into four branches infantry, cavalry, heavy and motor In 1919 a school for training officers was opened at Sleaford, but in 1921 the corps was disbanded. There but in 1921 the corps was distanced. There is a memorial at Folkestone to those of its mem bers who fell in the Great War. Machine gun detachments are now attached to each battalion. of infantry

Machynlleth Urban district and market town of Montgomeryshire It stands near the Dovey, 21 m from Aberystwyth, on the GW Rly It is visited by tourists and for the fishing Pop (1931) 1892

Mackall John William. British scholar Mackall Born in 1859, he was educated at Balliol College Oxford, and became an inspector under the Board of Education His works include a fine verse translation of Montreal and facilities in the shape of labora tories libraries etc. for every branch of Literature, Lectures on Greek Poetry and study. There are residential halls and several Lectures on Poetry He edited Select Epigrams theological and other colleges are affiliated from the Greek Anthology, and wrote lives of William Morris and George Wyndham He which he was responsible until Nov, 1918. was Professor of Poetry at Oxford 1906-11 In For a time he was interned, but in 1919 he was 1932 he was chosen president of the British allowed to return to Germany

Academy

Academy Mackail married Margaret, daughter of Sir E Burne-Jones, and their son, Denis George Mackail, won fame by his humorous stories These include Bill the Bachelor, According to Gibson, Greenery Street, How Amusing. The Square Circle and David's Day He was born June 3, 1892, and was educated at S Paul's School and Balliol College, Oxford.

Mackay Town and seaport of Queens-at the mouth of the river Pioneer, 625 m to the NW. of Brisbane It has a fine modern harbour, and from it much of the produce of the state is exported Pop (1931) 9230

McKenna Reginald English financier Born in London, July 6, 1863, he was educated at King's College, London, and Trinity Hall, Cambridge He rowed against Oxford in 1887 He was called to the bar in 1887, but soon turned his attention to politics, and was elected Liberal M.P. for N Monmouthshire in 1895 In M.P for N Monmouthshire in 1895 In 1905 he was appointed Financial Secretary to the Treasury From 1907-08 he was President of the Board of Education from 1908-11, First Lord of the Admiralty from 1911-15. Henry Secretary and in 1915-16. 1911-15, Home Secretary and in 1915-16 Chancellor of the Exchequer He introduced the war loan of 1915 and was responsible for the war loan of 1915 and was responsible for the duties on certain imports called the M'Kenna Duties He lost his seat in Parlia-ment in 1918, and in 1919 was made Chairman of the Midland Bank, assisting the Government in an advisory capacity on several occasions

McKenna Stephen British novelist. Born Feb 27, 1888, he was educated at Westminster School and Christ Church, Oxford. From 1915-19 he served in the War Trade Intelligence Department, visiting the U.S.A in 1917 The first of his many novels, The Reluctant Lorer, appeared in 1912 Others include Soma, 1917, Midas & Son, 1919, Vindication, 1923 An Affair of Honour, 1925, The Secretary of State, 1927 and The Datchley Inheritance, 1929 In 1932 appeared The Way of the Phoenix of the Phoenix

Mackennal Sir Bertram Esculptor E Australian Born in Mellviackeiliai sculptor Born in Melbourne in 1863, he was educated in Australia afterwards studying art in Paris His work soon attracted attention, and he was selected to carve several statues of Queen Victoria and later to design the coinage issued after the accession of George V His other work includes memorials to Edward VII. in S George's Chapel, Windsor, and clsewhere, and the national memorial to T Gainsborough In 1909 MacKennal was made ARA, and in 1922 RA He was knighted in 1921 and died Oct 10, 1931

Mackensen August von German Saxonv, Aug 6, 1849, he was educated at Torgau and Aug 6, 1849, he was educated at Torgau and Halle and entered the Saxon Army in 1869 After this became part of the army of the new empire in 1871 he rose rapidly in rank, becoming, in 1908, head of an army corps. He came into notice by his services against the Russians, and for his work on the E front in 1914-15 was made a field marshal He led the armies that conquered Serbia and later crushed Rumania, for the administration of the rising that broke out in 1234 and when this was crushed, escaped to the United States where he was alrested and imprisoned In 1849 he was allowed to go back to Canada and was re-elected to the legislature. He died Aug 29, 1861

Wackerel Marine food-fish related to N. Atlantic (Scomber scombrus) The slightly compressed body, commonly 10-12 in. long,

Mackenzie River of Canada Rising mear Mt. Brown in British Columbia, for the first 680 m. it is the Athabasca from Lake Athabasca and the Great Slave Lake for about 600 m it is the Great Slave River, with the Peace and the Finlay as its tributaries. The Mackenzie River proper flows from Great Slave Lake to Mackenzie Bay in the Arctic Ocean. It is 1000 m long. One of the districts of the N.W. Territories is called the Mackenzie. It covers over 560,000 sq. m, reaching from British Columbia to the Arctic Ocean.

Mackenzie Sir Alexander Scottish explorer Born about 1755 in Inverness, he went to Canada in the service of one of the trading companies in 1779 For the next 20 years he did a great deal of exploring He found the mouth of the river named after him, the Mackenzie he crossed the Rocky Mts to the Pacific coast and journeyed along the St. Lawrence In 1801 he published an account of his travels. Knighted in 1802, he died March 11, 1820.

Macle 17 19 Compton British author

Mackenzie Compton British author Hartlepool, January 17, 1883, and was educated at S Paul's School, London, and at Oxford. He served in the South African and Great Wars,

He served in the South African and Great Wars, and directed the Aegean Intelligence Service with great distinction in 1917

He has written The Passionate Elopement, 1911 Carnival, 1912, Sinister Street, 1913-14, Poor Relations, 1919, Rich Relatives, 1921, Rogues and Vagabonds, 1927 Gallipoli Memories, 1929, More Athenian Memories, 1932 and three plays In 1933 he published Reaped and Bound, a volume of essays, and Interative in My Time, the first of a series of Literature in My Time, the first of a series of books on current activities by authoritative writers. He was elected Rector of Glasgow University in 1932

Mackenzie Sir Morell British sur-stone, July 7, 1837, he was educated in London and studied at the London Hospital, in Paris and in Vienna He won a prize for an essay on diseases of the larynx and soon became one of the leading specialists in that branch of surgery He was one of the founders of the Hospital for the Throat, was one of the first to use the laryngoscope and wrote a standard book, Diseases of the Throat and Nose To the general public he became known in 1887 when he was consulted by the Crown Prince of Germany, later the Emperor Frederick, on whom he wrote a book, Frederick the Noble. Knighted in 1887, he died Feb 3, 1892

Mackenzie Wilham Lyon Scotsman and Canadian politician

He was born in Angus, March 12, 1795, and in 1820 settled in Canada He made his home in Toronto, where, in 1824, he started The Colonial Advocate. In 1834 he secured a seat in the legislature and, as the leader of an influential party, declared for a republic He took part in the rising that broke out in 1837 and when this was crushed, escaped to the United States where he was arrested and imprisoned In 1849 he was allowed to go back to Canada and was re-elected to the legislature He died Nug 29, 1861

rising to 18 in, mostly covered with minute scales, is black-barred, bluish-green above and silvery beneath Shoals move between the solvery beneath Shodis move between the open sea and constal water, and are mostly taken in drift nets, especially off Cornwall and the E coast of Britain, in May-June and Sept-Oct. The Spanish mackerel, S coltas, differs in being big eyed, with larger scales, and an at blodder

MICKINIEY William American president Born in Ohlo, Jan 29 1843, he was educated to become a lawyer After serving in the Civil War, he practised law at Canton In 1877 he was sent to Congress by the electors of Ohio, and he had a good deal to do with the introduction of the high Tariff In 1896 he was the Republican candidate for the presidency and he succeeded in defeating W J Bryan, who advocated bimetallism There was another contest between them in 1900 and again McKinley was the victor During his first term of office the war with Spain took place his second had only just begun when he was shot by an anarchist at Buffalo Sept. 6, 1901 He died on the 14th, when Roosevelt became president

Mackintosh Sir James Scottish writer Born, Oct. 24, 1765, he was educated for the medical profes sion in Aberdeen and Edinburgh, but he settled in London and became a barrister Ho became known by his Vindictae Gallicae, a defence of the French Revolution, written in answer to Burke, which won for him the honour of French citizenship In 1804 he went out to Bombay as a judge and in 1813, after his return to England, was elected M P for Nairn and made Professor of Law at the East

Nairn and made Professor of Law at the East India College, Halleybury From 1830 32 he was a member of the Board of Control for India He died May 22 1832 IVIaclaren Archibald Campbell Eng Ilish cricketor Born in Manchester, Dec. 1, 1871, he was educated at Elstree and Harrow For four years he played cricket for Harrow against Eton and in 1891 he was made cantain of the Lancabiler country he was made captain of the Lancashire county team For the next 20 years or so he was one of the outstanding figures in the game, a superb batsman and fieldsman and a captain of unusual discernment. He played many times in test matches in England and Australia and was captain of the English team at home in 1899, 1902 and 1909 and in Australia in 1897 98 and 1901 02 In 1895 he scored 424 runs at Taunton the highest score in first class oricket. He wrote Cricket, Old and New, 1924

oricket. He wrote Cricket, Old and New, 1924

Maclaren Ian Name taken by the
Scottish writer, Rev John
Maclaren Watson Born at Manningtree,
Essex, Nov 3, 1850, he was educated at
Stirling and in Edinburgh He became a
minister of the Free Church of Scotland in
1874, his first church being in Edinburgh He
was at Logicalmond and in Glasgow before
becoming minister of the influential church
in Sefton Park, Liverpool, where he was from
1880 until just before his death, May 6, 1907
As Ian Maclaren, he wrote in 1894 some
sketches of Scottish life called Beside the
Bonnie Brice Bush
The book had an extra
ordinary success and was followed by others
including The Days of Auld Lang Syme and

including The Days of Auld Lang Syme and hate Carnegie He also wrote The Mind of the Master and other theological books

solicitor in London In 1906 he entered the House of Commons as Liberal M P for Bath From 1910 18 he represented the counties of Peebles and Selkirk and from 1918 to 1922 Peebles and Midlothian In 1929 and 1931 he was elected for a division of Cornwall From 1911 to 1916 he was Deputy Chairman of Committees and in 1917 he was knighted In 1919 Mr Asquith, having lost his seat, Sir Donald was chosen the leader of the Liberal group in Parliament, a position he retained until 1922 In Aug 1931 he joined the National Government as President of the Board of Education He died suddenly, June 15, 1932

Macleod Norman Scottish writer and preacher Born at Campbel town Argyllshire, June 3, 1812 and educated for the ministry, his first churches were at Loudoun and Dalkeith From 1851 till his death, June 16, 1872 he was minister of the Barony Church Glasgow and author of the popular Remniscences of a Highland Parish, 1867 He edited Good Words from 1860 to 1872 and was a right of Overn Victoria. 1872 and was a friend of Queen Victoria

Maclise Daniel British painter Born soldier, Jan 25, 1806, he became a clerk in a bank there He soon left this to study art and showed such promise that he was helped to study in London He was elected ARA in 1835 and RA in 1840 and in 1866 was offered

1835 and R A. in 1840 and in 1866 was offered the presidency of the Royal Academy He died in Chelsea, April 1 1870

Maclise's great pictures include "The Banquet Scene in Macbeth," "The Ghost Scene in Hamlet," in the Tate Gallery 'Snap Apple Night," "Caxton's Printing Office, Malvolle and the Countess' and "Shakes peare's Soven Ages' He helped to decorate the House of Lords painted a portrait of his friend. Charles Dickens and illustrated books.

friend, Charles Dickens and illustrated books.

Macmahon Maurice French soldler He was born June 13, 1808, being descended from an Irish soldler who had settled in France from an Irisa soldier who had settled in France after 1688 He served in Algiers and in the Crimean and was head of the army that in 1864, defeated the Austrians at Magenta, after which he was made a Marshal and a Duke and appointed Governor General of Algeria. He returned home in 1870 to command an army corps in the war with Prussla. At Worth he was defeated and at Sedan he was Made prisoner. After his release he not down. the Commune and established the authority of the republic This led, in 1873, to his election as president His actions aroused a good deal of hostility and in 1879 he resigned. He died Oct. 17, 1893

McNe111 James Irish politician Born Aug 27, 1869, in Co Antrim, he was educated at Blackrock College, Dublin and at Emmanuel College, Cambridge In 1890 he won a position in the Indian Civil Service and he remained in India until 1921 Return ing to Ireland he was made Chairman of the Dublin County Council and took part in drawing up the constitution of the Irish Free State From 1923 to 1927 McNeill was High Commissioner for the Free State in London, and in 1928 he was made Governor General

Mâcon City of France It stands on the Saone, 45 miles from Lyons, and is the capital of a department The city It stands on Maclean Sir Donald Scottish politician gives its name to a popular variety of Bur-Born in Tiree, he became a gundy Pop (1931) 18,495

Macquarie River of New South Wales, a union of the Fish and the Campbell rivers and flows through New South Wales for about 350 m until it joins the Darling It waters a rich agricultural district and on its banks are Bathurst and Wellington

An island in the South Pacific also bears this name. It belongs to New Zeeland and on

this name It belongs to New Zealand and on it is a meteorological station Its area is 170 sq m

Macquarie Bay is on the west coast of

Tasmania. It forms a good harbour

Trimming made by knotting Macramé Trimming made by knotting together long fringe-threads into geometrical patterns Presumably of Arabian origin, it reached Moorish Spain, where "Morisco fringes" are still made, and N Italy, whose knotted lace experienced a 19th-century revival of fashion in macrame lace, for wedding gifts in Latin America and for recreative lace making in Victorian England Macramé

Macready William Charles. English Macready actor Born in London, March 3, 1793, and educated for the law, he took to the stage and made a great reputation in Shakespearean parts Other successes were won with Helen Faucit in Lytton's plays, The Lady of Lyons and Richelieu From 1837 39 he was manager of Covent Garden from 1839 41 of the Haymarket and from 1841 43 of Drury Lane He went three times to the United States In 1851 he retired, and he died at Cheltenham, April 27, 1873, leaving some interesting diarles interesting diaries
His son, Sir Cooll Frederick Nevil Macready,

was a soldier with a long record of active service. In 1918-20 he was commissioner of the metropolitan police and in 1920-22 he was in command of the troops in Iroland.

Macrinus Roman emperor whose full name was Marcus Opelius Severus Born in 164, he became an officer of the Practorian Guard and, having induced the soldiers to murder Caracalla, was proclaimed emperor in 217 He made war on Parthia, but this being unsuccessful, the soldiers turned on him and he was put to death in 218

MacWhirter John Scottish artist.
He was born near
Edinburgh in 1839 and studied art at the
Edinburgh School of Design He exhibited at
the Royal Scottish Academy and, was elected the Royal Scottish Academy and, was elected as Associate in 1804, also at the Royal Academy, becoming R A in 1893 MacWhirter was chiefly a landscape painter many of his works being studies of scenery in the Highlands and in Italy He was the author of Landscape Painting in Water Colours He died Jan 28, 1911

Madagascar Island in the Indian climate, high mountains (Amboro, 9490 ft), large rivers flowing west, extensive lakes and valuable forests and minerals

The natives are of Melanesian and Polynesian took. Education is companiony from a text.

Battle of Jutland in 1916, and was mentioned in despatches He was Admiral of the Fleet in 1924, and First Sea Lord of the Admiralty (1927-30) retiring in 1930 He was created a baronet in 1919, and awarded the O M. in 1931 He also holds many foreign decorations He died Lyne 1935 He died June, 1935

Madder Pigment obtained from the Rubia tinctorum This is a perennial plant, Rubia tinctorum growing in Southern Europe and Asia Minor Formerly it was the source of the dyestuff, turkey red, replaced now by alizarin derivatives Madder forms a series of richly-coloured. transparent lakes used as water colours

Madeira Island group in the North Atlantic Ocean belonging to Portugal The principal island, which gives its name to the group, is a favourite health resort, mountainous and fertile, producing

wine, sugar and fruit

The chief town is Funchal, the shipping centre, and a seat of a Roman Catholic bishopric Pop (1930) 210,220

Pire of South America

Madeira River of South America, a tributary of the Amazon It is formed by a union of the Mamoré and the Benl and flows for 900 m until it falls into the Amazon near Manaos The greater part of its course is navigable. It is about 2 m wide where it joins the Amazon

Madison James American president Born in Virginia, March 16, 1751, he became a member of the legislature and helped to frame the American constitution and helped to frame the American consultation, At first he acted with Alexander Hamilton, but later adopted the views of Hamilton's opponents and with Jefferson tried to limit the power of the central government. When, the power of the central government When, in 1801, Jefferson became president, Madison was made Secretary of State and held that post until 1809 He was then elected president, was re elected in 1812, retired in 1817, and

post until 1809 He was then elected president, was re elected in 1812, retired in 1817, and dled June 28, 1836

Madoc Second son of Owen Gwynedd, Prince of Wales According to a 15th-century Welsh poem, after disputes over the succession to the Welsh crown, he sailed westward with ten ships In Tudor days the legend arose that he had discovered America, this, unsupported by evidence, is the theme of Southey's poem, Madoc, 1805

Madonna Italian word, "my lady," specifically reserved to denote the Virgin Mary when represented in art Representations in 3rd-century catacombs inaugurated a practice to which artists have devoted their highest powers in all ages Madonnas occur as paintings on canvas, wood and fresco, works in Mosaic, or sculptures in wood, ivory, metal and stone Of the many madonnas painted by the great Italian artists, pride of place is usually given to Raphael's Sistine Madonna, now in Dresden See Lilly

Madras Capital of Madras Presidency and chief port on the east coast The natives are of Melanesian and Polynesian stock Education is compulsory from 8 to 14 The chief industry is agricultural and the chief towns are Antananarivo in the highlands and Tamatave on the east coast Madagascar became a French possession in Jan, 1896, the last native sovereign being Ranavalona III (1861-1916) The area is about 241,094 sq m and the pop (1931) 3,701,770, of whom some 23,076 are French and 13,460 foreigners

Madden Sir Charles Edward British Madras Occupying the entire south of the Admiralty (1910-11), he served in the

sit in the London police courts and in certain large towns, such as Birmingham They can sit alone as they have the powers of two ordinary magistrates They must be barristers of at least seven years' standing

Magna Carta Charter of privileges signed by King John at Runnymede, near Staines, June 15, 1215
He was forced to sign it by the barons led by the Archbishop of Canterbury, Stephen Langton It was a statement of the laws or customs of the land and was confirmed by Henry III and Edward, but with some of its most important clauses left out.

Magnesia Name given to magnesium oxide This is a white, bulky powder formed when magnesium is burned in air, or when the carbonate is calcined it is used in medicine, and in making crucibles,

cupels and firebricks
The carbonate, or a mixture of the carbonate
and hydroxide, used in pharmacy, is termed

magnesia alba

Magnesite Mineral consisting of magnesium carbonate and occurring in massive fibrous or granular form Its colour varies from white, greyish white to brown, and it is associated usually with scrpentine and allied rocks occurring in Bliesia Norway and North America. Magnesite is used in preparing Epsom Salts, and in paint, paper, and firebrick manufacture

Magnesium Metallic element having the symbol Mg, atomic weight, 24 32, and melting point 651°C Its compounds, chiefly the carbonate, are distributed widely as magnesian limestone, dolomite and magnesite It is extracted chiefly by electrolysis of the fused chlorides from the mineral carnallite in Prussian Saxony Magnesium is a white metal burning with a dazzling white light when heated to redness in air In ribbon, wire or powder it is used in in air In ribbon, wire or powder it is used in photography and pyrotechny, and with aluminium forms a valuable alloy, magnallum

Magnet Substance having the property of attracting iron, and in a lesser degree, nickel and certain other metals. This attractive property was observed first in the lodestone or magnetite, an oxide of iron. A permanent magnet is a straight or horse shoe shaped steel bar magnetised by contact with a similar magnet for an electrometer.

shoe shaped steel har magnetised by contact with a similar magnet or an electro magnet, the latter consisting of a soft iron har sur rounded by insulated wire cells and then temporarily magnetised by an electric current Electro-magnets, which can lift many times their own weight, are widely used in industry, particularly for handling such materials as scrap iron Their lifting power is determined by the number of ampere turns, the strength of the current employed, multiplied by the number of turns in the cells

Magnetic Poles Areas on the earth's surface to which the mather's compass points They do not coincide with the geographical poles, north being found about 97° W 70°‡ N, south estimated about 155° 16′ E, 17° 25′ S. They are subject to regular seasonal variations and to sudden irregular "magnetic storms"

vertical axis, tends to come to rest in a definite position, that is, approximately north and south It is found also that the north poles of two magnets repel each other, and the same is true of the south poles When Iron filings are sprinkled upon the poles of a horse shoe magnet they become magnetised and arrange themselves in curved "lines of force"

The earth has the properties of a magnet, with poles lying near the ends of its rotational axis Lines of force are not regular on the surface, the necessary corrections to compass observations are taken from charts issued for

practically all parts of the world

Magnetite Black mineral with metallic magnetic oxide of iron containing when pure, about 72 5 per cent of iron it occurs in veins and beds in schists and other metamorphic rocks, also in the form of magnetic iron sands. Magnetite, the lodestone of the ancients, is a natural magnet

Magneto Machine or generator for converting mechanical energy into electrical energy by the rotation of an armature in the magnetic field of a horseshoe magnet Magnetos are used for the production of an electric spark for ignition purposes in internal combustion engines

A magneto consists essentially of two colls

of wire, primary and secondary, wound upon a core of soft iron, and rotated between the poles of a magnet The current in the primary coll is regularly interrupted by the action of a contact breaker, inducing in the secondary coll a current which passes across the electrodes of the sparking plug producing a spark

Magnificat Opening word of the Latin canticle, translated as My Soul Doth Magnify the Lord in the Book of Common Prayer It is taken from S Luke's Gospel (i 46 55) and has been used since the 6th century in Christian churches.

Magnolia Genus of hardy and half-hardy related to the tulip tree and shrubs related to the tulip tree. They are indigenous to subtropical Asia and N America, bearing large, fragrant, solitary flowers The earliest to reach Britain was the American evergreen shrub M glauca, introduced in 1688 During the 18th century several others came from both east and west, including the handsome American bull bay, M grandsforc 70 ft. high, from whose seeds the free flowering Exmouth variety was established, and the Chinese yulan, M conspicua, of which there is a purple tinged, double flowered variety

Magpie Genus of perching birds of the crow family (pica) Stoutbeaked, lustrous black, relieved by white on long, is wary when wild, and a sad thief when domesticated. Massively built nests protect the 6-7 spotted and blotched bluish white eggs.

which the mariner's compass points They do not coincide with the geographical poles, north being found about 97° W 70° ł N, south esti mated about 155° 16° E, 17° 25′ S. They are subject to regular seasonal variations and to sudden irregular "magnetic storms"

Magnetism Form of energy ex other metals. The study of magnetic forces constitutes the science of magnetism It invariably has a directive character. A bar magnet freely suspended and rotating about a sudden in the suspended and rotating about a specific proposition and blotched blush white eggs.

Magyar Dominant people of the Hungarian republic presented and blotched blush white eggs.

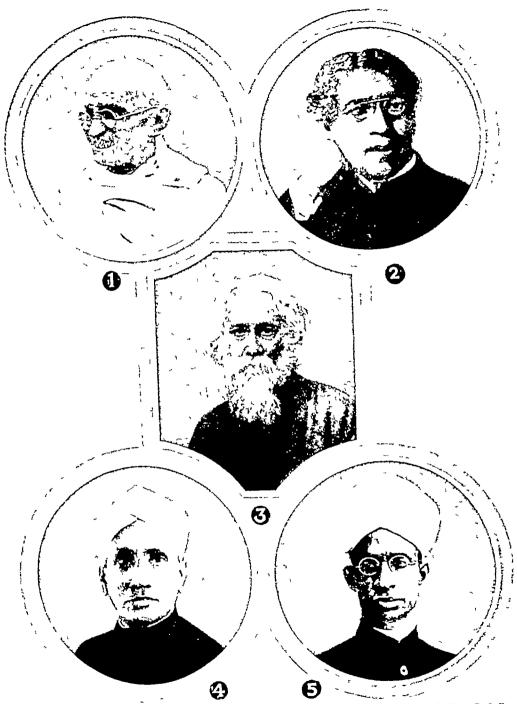
Magyar Dominant people of the Hungarian republic presented and blotched blush white eggs.

Magyar Dominant people of the Hungarian republic presented and blotched blush white eggs.

Magyar Dominant people of the Hungarian republic presented and blotched blush white eggs.

Magyar Dominant people of the Hungarian republic presented and blotched blush white eggs.

Magyar Dominant people of the Hungarian republic promable took who took Ugrian wives and adopted their language, they came westward into the other ethnic elements, entered the Roman Catholic communion in the 11th century, and solve pressure through their national and Slavio pressure through their national and Slavio pressure through their national and Slavio pressure through their national promable and blotched blush white eggs.



Mr M K Gandhi 2 Sir Jagadis Chandra Bose, Kt, CIE, CSI.
 Mr Rabindranath Tagore 4 Sir C V Raman, Kt, M.A.
 Sir S Radhakrishnan, Kt, M.A., D. Litt (Hon)

Mahábhárata Hindu sacred book, come from an allied species, both grow also in cutta, 1834-39, this ancient Indian epic is probably the longest in the world, and is the work of many hands, Vyása, its supposed anthor, being undoubtedly a generic name Its main story describes the conflict between Kurus, spirit of evil, and Pandus, spirit of good

Machaeless Sir John Bendard Tool

Mahaffy Sir John Pentland Irish scholar Born Feb 26, 1839, the son of a clergyman, he went to Trinity College, Dublin He was made a fellow and from 1869 to 1900 was Professor of Ancient History there In 1914 he was chosen provost, a post he held until his death, April 30, 1919 He had heen in holy orders since 1864 and in He had been in holy orders since 1864 and in 1918 he was knighted

Mahaffy was knighted
Mahaffy was known as "the General"
because of his knowledge of many subjects
He was an accomplished musician, a good
cricketer and a fine shot, as well as a scholar
of unusual attainments He wrote several
books on ancient history including Greek Lufe
and Thought and The Empire of the Ptolemies,
and his public positions included the presidency
of the Royal Irish Academy

Mahan Alfred Thayer American historian He was born Sept 27,

IVIANAN torian He was born Sept 27, 1840, his father being a professor at West Point Military Academy In 1886 he was chosen President of the Naval War College and he retired from the service in 1896 He died Dec 1, 1914

Mahan is known for his books on sea power, which attracted world attention These are, The Influence of Sea Power on History (1660-1783), which appeared in 1900, and The Influence of Sea Power upon the French Revolution and Empire, 1892 He also published a biography, Nelson, the Embodiment of the Sea Power of Great Britain, 1897, and a volume of lectures called Naval Strategy, 1911

Vanatura Sanskrit word. "great-

Mahatma Sanskrit word, "great-souled," applied by modern Western theosophists to men said to be endowed with preternatural powers acquired by ascetic or astral means. The word became associated by the Indian populace with the Hindu nationalist leader, Mohandas Gandhi (q v), because of his asceticism

Mahdi Name for the messiah expected by the Mahommedans His coming was first preached in the 10th century and several men since have claimed to be the Mahdi The best known was Mohamed Ahmed who was born in the Sudan in 1848 He set out to conquer the Sudan and met with a certain amount of success He died in 1885 and in 1898 his tomb near Khartoum was destroyed by British troops

Mah Jongg Chinese gambling game It is played with 136 counters or tiles, not unlike dominoes Four players usually take part, but it can be played by two The tiles are divided into three suits and there are four sets of each Each player plays for himself and tries to secure the tiles representing the highest score

Manogany Compact timber, distinguished as Spanish or Cuban It is derived from a Central American and W Indian tree (Swictenia mahagoni) Reaching Britain early in the 18th century it acquired favour for domestic furniture, although less esteemed since Victorian times it is still used for cabinet work and aeroplane propellers Honduras and Mexican mahogany

Mahomet Founder of Mahommedan-in Mecca about 570, a posthumous child, and soon lost his mother He lived with an uncle and was employed in looking after camels and sheep, varying this occupation with one or two trading journeys In 595 he married a wealthy widow and became rich and prosperous

In 610 Mahomet began to regard himself-aschosen by God to preach a new faith He lived in a cave where he had visions and where, he believed, the angel Gabriel visited him He denounced idolatry and declared there was only one God, Allah, and that Mahomet was his prophet. His few followers were persecuted, his wife died and he himself, in 622, was obliged to leave the city He went to Medina, where the new faith was soon firmly established and the movement became a crusade Mahomet raised an army and soon proved himself a conqueror He entered In 610 Mahomet began to-regard himself-usa crusade Alanomet raised an army and soon proved himself a conqueror. He entered Mecca as a victor in 630 and before he died in 632 had subdued all Arabia. He died in Medina, where he was buried Although married to several wives, including Avesha, he left no son. His savings were collected together to form the Koran which contains the creed of his millions of followers. creed of his millions of followers

Mahommedanism Religion Mahomet Its adherents are sometimes known as Moslems, or collectively as Islam When Mahomet died in 632 his faith had a considerable hold on the inhabitants of Arabia and Asia Minor His successor as callph was Abu ASIB Minor His successor as callph was Abu Bekr, who carried on his policy of converting the unbelievers by force In 654 Mahomet's son-in law, All, became callph, and the adherents were divided into two great branches, Sunnites and Shlites The latter believed in the right of All to succeed, but the Sunnites did not

During its first two centuries, or thereabouts, Mahommedanism made great progress It spread into Africa and Europe, where in Spain spread into Africa and Europe, where in Spain it has left a great mark In the 11th and 12th centuries, Asia Minor being almost completely Mahommedan, the faith spread over India It was accepted by the Turks and inspired them to the conquests which were such a menace to Europe in the 15th, 16th and 17th centuries In the 18th century they lost ground and at the end of the Great War, Turkey almost ceased to be a European power. The faith of the Mahommedans is contained in the sentence coined by Mahomet, "There is no God but Allah, and Mahomet is his

is no God but Allah, and Mahomet is his prophet." Its creed, which in some points is interpreted differently by its two great sects, is contained in the Koran It enjoins prayer with the face turned to Mecca five times a day, fasting from sunrise to sunset during the month of Ramadan, and a pilgrimage once during a lifetime to Mecca. It places women in a very inferior place compared with men Its worship is held in mosques which are found in all its cities, some of them being buildings of great splendour

Its adherents number over 200,000,000, of whom 160,000,000 are in Asia India contains a large Mahommedan element

Mahratta See Maratta

Maiden Castle Earthwork just out-Dorchester. and covers 160 acros being perhaps the largest of its kind in the country The hill is 430 ft high and is protected by concentric ramparts of earth

Maidenhair Fern (Adiantum) forms of the polypody tribe, natives of tem perate and tropical regions The common The common A capillus veneris, whose fronds have spreading hair like branches, occasionally occurs wild in the west of England, Wales and Iroland There are several hothouse and greenhouse favourites, mostly preferring damp and shade some furnish a sweet syrup called capillaire

Maidenhair Tree (Gingko biloba)
mous tree the single species of its genus
It is a native of China and Japan and has
beautiful fan shaped foliage The golden plum like fruit borne on the female tree is edible, the male tree bears a catkin like spike for fertilisation

Maidenhead Market town and urban district of Borkshire A popular boating centre on the Thames, it is 24 m from London, on the G W Rly The industries include browing Pop (1931) 17.520

## Maid of Orleans See JOAN OF ARO

Maidstone County town, borough and market town of Kent. It is on the Medway, 41 m from London on the S Riy, and the centre of several road services Here is the former palace of the Archbishops of Canterbury The industries include the making of agricultural implements, paper cement and toffee and there is a trade in hops

cement and tolles and there is a trade in hops and farm produce. It is also a military centre Pop (1931) 42 259

Main River of Germany It rises in the country and flows for some 300 m to Mainz where it joins the Rhine. On It are Frankfort, Nuremberg, Wurzburg and other places and most of its course is payinghle. The Scale and most of its course is navigable The Saale and the Regnitz are tributaries and a canal unites it with the Danube

A small river of Co Ireland, is called the Main Antrim, Northern It is 30 m long

and flows into Lough Neagh

and flows into Lough Neagh

Maine Province of France before the Revolution It lay to the south of Normandy, around the town of Le Mans which was its capital It had its own counts for a time, but about 1100 became part of the territory ruled by the counts of Anjou, one of whom was Henry II of England In 1201 it was taken from King John by the King of France and was ruled by counts who were mem bers of the royal family At the Revolution it was divided into the departments of Sarthe and Mayenne

Maine State of the United States In

Maine State of the United States In the NE of the country, its northern boundary is formed by New Bruns wick and it has a long coastline on the Atlantic Its land area is 29,895 sq m and its are chiefly agricultural. The state interests are chiefly agricultural. The state capital is Augusta but Portland is the largest

Pop (1930) 797,423

Maine Sir Henry James Sumner British historian Born Aug 15 1822 he was educated at Christ's Hospital and State Hospital S

It was formed in the neolithic age reader in jurisprudence at the inns of court and in 1862 he went to India as legal member of the viceroy's council In 1869, on his return of the viceroy's council In 1869, on his return to England, he was made professor of comparative jurisprudence at Oxford and in 1877 master of Trinity Hall, Cambridge In 1871 he was knighted, and was Whewell professor of international law at Cambridge from 1887 until his death at Cannes, Feb 3, 1888 Maine wrote books which had a great influence on the study of jurisprudence and are

still valuable The most important is Ancient Law, hardly less so are The Early History of

Institutions and Early Law and Custom.

Maintenance Word used in English A maintenance order is one which a wife can obtain from a magistrate if her husband fails to support her The amount varies according to the husband's income, but will not exceed £2 a week, with an additional 10s a week for each child under 16 A maintenance order differs from a separation order See ALIMONY, SEPARATION

Maintenon Madame de Wife of Louis XIV of France Francoise d'Aubigné was born Nov. 27 1635 her parents being then in prison as Huguenots She lived in Martinique for a few years, but in 1645 returned to France, and in 1651 she was married to the poet Scarron He died in 1660 and his widow, forced to earn a living became gover ness to the children of Louis XIV and Madame de Montespan Her wit and beauty attracted the attention of Louis and she became king's mistress about 1678, when she was made a marquise She retained her position until Louis died in 1715, being for the last 30 years of that time his wife, and exercised a remarkable influence over him. Her last years were passed at St Cyr, where she died April 15, 1719 leaving behind her a reputation for piety

Mainz City and river port of Hesse on the Rhine, where that river is joined by the Main, 22 m from Frankfort. There is a on the Milie, where that river is joined by
the Main, 22 m from Frankfort. There is a
trade along the river and Mainz is a railway
junction and has a number of manufactures
The wine trade is important. The cathedral is
one of the finest in Germany The French
spelling of the name is Mayence Pop 110,000
In the Middle Ages Mainz was the seat of a
lishon and then of an arabbishon. He became

bishop and then of an archbishop He became the primate of Germany and an elector and ruled over an extensive district around the city The office was abolished in 1803 and the

city itself then became part of Hesse

Maisonneuve City of Quebec,
turing centre, it is on the island of Montreal,
and adjoins the city of that name Maison
neuve is named after Paul de Chomedy, Sieur de
Melsoneuve a Franch officer who in 1842 Malsonneuve, a French officer who, in 1642, founded the city of Montreal He was the governor until 1665 and dled in 1676

Maitland Town of New South Wales Hunter River, 120 m north of Sydney East Maitland is an important railway junction and an agricultural and colliery centre At West Maitland are pottery and brick norks Pop (1931) 11,040

Frederic William English Maitland Waitiand historian Born May 28, 1850 he was educated at Eton and Trinity College, Cambridge In 1884 he was made Cambridge He was senior classic at Cambridge reader in English law at Cambridge and in 1844 and in 1847 was made regius professor of laws. He died of civil law there In 1852 he was appointed Dec 19, 1906

Mhitland's researches into the early history of our laws and institutions marked him out as a scholar of unusual power. His chief works are, The History of English Law, written with Sir F Poliock and the suggestive volume, Domesday Book and Beyond He wrote Township and Borough and Canon Law in England, and was one of the founders of the Selden Society

Maiwand Village of Afghanistan It is 30 m. from Kandahar Here, on July 27, 1880, a British force was attacked by an army of Afghans who routed the native troops The retreat was covered by a battalion of the Berkshire Regiment which lost 300 officers and men.

Maize Stout, annual grass Next in importance to rice as a cereal food, it is probably indigenous to tropical America Besides enormous crops in the United States, it is raised in Canada, Mexico, Argentina and Brazil, and is naturalised in S' Africa, India, China, S Europe and Australia The grain is roasted or boiled, coarsely milled it becomes hominy or polenta, deprived of gluton it yields cornflour. It is also a valuable cattle food, and the leaves furnish green fodder

The world's production of maize in 1932 was 520,000,000 quarters and is only slightly less than that of wheat

Majolica Name properly restricted to Italian Renaissance On it decorative designs were painted and fired First developed by Luca della Robbia, it reached its zenith when associated with metallic lustre, in emulation of that displayed on Hispano Moresque ware, which reached 15th century Italy in Majorean ships, hence the name Supreme examples were produced at Pesaro, Faenza, Castel Durante, Urbino, Gubbio and other famous 15th-17th century pottery centres Clever modern imitations abound modern imitations abound

Major Rank in the British army It is below that of lieutenant-colonel and above that of captain A major wears a crown as the badge of his rank In the infantry a major is usually the second in command of a battallon and commands a

company

Major Name meaning greater, apputed in music to seconds, thirds, sixths and sevenths A major semitone is a diatonic semitone and a major triad consists of a note with its major 3rd and perfect fifth above it A diatonic scale progressing by tones but with 3rd and 4th and 7th and are decrees only a semitone apart, is said to be Sth degrees only a semitone apart, is said to be in major mode. The major tone in acoustics is that in the ratio 98 and the organ stop major bass is a 16 ft diapastn stop.

Majorca Island in the Mediterranean Sea It is one of the Balearic Islands and belongs to Spain It is 115 m from Barcelona and covers 1325 sq m. The introduction is mountained. interior is mountainous, but the soil is generally fertile and much fruit is grown including oranges are produced Palma is the capital and there are many small places and good harbours around the coast. There are many wonderful

Major-General Rank in the British that of colonel and below that of lieutenantgeneral The badge is a sword and baton crossed with a star above A major-general's

usual command is a division.

Majuba Hill Hill of Natal At the north-eastern end of the Drakenberg Mountains, it is 7000 ft high On Feb 27, 1881, a small British force under Sir G Colley seized the hill Early next morning the British were attacked by the Boers and defeated, Colley being killed

Malabar District of India 1VI alabar Madras and covers about 6000 sq m Calicut is the chief town The Malabar coast is a strip of land about 40 m. wide between the hills and the sea

Malacca Largest of the Straits Settle-ments Occupying about 637 sq m in the Malay Peninsula, it extends for 42 m. along the Malacca Strait opposite Sumatra, the capital of the sane name being 110 m NW of Singapore Captured by 110 m NW of Singapore Captured by Portuguese in 1511, it became Dutch in 1641, and British in 1795 It was finally exchanged for Britain's Sumatra settlement in 1824.

Pop (1932) 191,335

Malachi Name assigned to the last book
of the Old Testament in the
English Bible Meaning "my messenger," it
may be the personal name of a prophet otherwise unknown, or the title of a prophet whose proper name is unrecorded Written after the proper name is unrecorded Written after the rebuilding of the Temple, 6th century BC, the book rebukes priestly degeneracy and

various social evils

Malachite Green mineral composed copper It is rarely crystallised but occurs in compact or nodular masses often of great size in the Ural Mts, Australia, France and the British Isles When cut and polished it is used for decorative purposes or as a superior of the least the beauty of the state of the st remstone It is also the basis of a pigment, malachite green

Malacology Branch of zoology devoted to the study of the anatomy of animals of the molluscan type. It is distinguished from conchology which is concerned with the study and classification of inclluses based primarily upon the characters of the shells

Malaga City and seaport of Spain Situated on the Mediterranean coast 65 m N E of Gibraltar, it comprises a complex of old buildings commanded by a 13th century Moorish castle, with well built modern suburbs The climate is mild and equable, wine is produced and there is much shipping activity. Founded by Pnoenician merchants, it passed into Roman, Visigothic and Moorish lands, becoming Christian in 1487 Pop 191,611

Malakand Pass on the Indian frontier, also the name of a frontier post. The pass is in the North West Frontier province and extends from the valley of the Kabul to that of the Swat River Dargai is at the mouth of the pass In 1897 there was trouble with the Swats here and the force sent against them was called the Malakand field force Sec Dargai

Malar Lake of Sweden Just outside Stockholm, it covers 650 sq m and its waters are carried to the Baltio are over 1000 islands on the lake, which is the centre of magnificent scenery

Malaria Italian term, "bad air," for a group of fevers Formerly called ague, they are intermittent fevers and are caused by minute animal parasites (plasmodium) Malaria is found to be transmitted from Malaria is found to be transmitted from Malaria is found to be transmitted from Malaria in the found to be transmitted from the found to be transmitted from the found to be mitted from infected persons by the sunset bite

of the bloodsucking females of certain mos quitoes (Anopheles) The parasites, after a life-cycle in the female mosquito pass through her salivary glands when biting, undergo a second life-cycle in man and then attack his The specific remedy is red blood corpuscles quinine Sec BLACKWATER FEVER.

Malay People of Mongoloid stock dominant in the Malay Peninsula and Archipolago The true Malays area shortish round headed, straight haired, olive brown race, with small hands and prominent check bones, of an easygoing impassive temperament bones, or an easygoing impassive temperament First arriving in Sumatra and Malacca, they became islamised in the 13th 16th centuries developed scafaring practices and underwent cthuic admixture with their Indian and Melanesian neighbours Their language, the lingua franca of the East Indies, has widespread affinities traceable from Easter Island to Madagascar

Malaya Political term for the greater part of the Malay Peninsula south of the Siamese boundary and constituting the British sphere, it embodies the Straits Settlements, Federated Malay States and Non Federated Malay States, including the Johore Protectorate and four native states which passed from Siamese to British suzerainty in 1909. Occuping 51,606 cm. It has an in 1909 Occupying 51 805 sq m, it has an estimated population of 4,000,000 including Malay tillers of the soil, primitive jungle dwellers, and Chinese and Tamil immigrants

Malay Archipelago Worlds group of islands, variously called also the East Indies, Indonesia and Malaysia. Common usage includes the Sunda islands, Celebes the Moluccas, Borneo, New Guinea, the Philippines, and Netherlands India Worlds

Malay Peninsula Strip of land the southernmost extremity of Asia Connected with the rest of Farther India by the Kra isthmus, and projecting southward between the China Sca and the Malacca Strait, it extends for 750 m to Cape Romania, the extreme point being sheltered by the island of Singapore, which her relieves connection with Province which has railway connection with Bangkok The area is 70,000 sq m, traversed by a mountain ridge with peaks up to 8000 ft, densely forested and fringed here and there with coastal awamps

Wild coasts swallpas Walcolm Scots Malcolm I was king from 943 to 954, and Malcolm II from 1005 to 1034 Malcolm III, a son of Duncan killed Macbeth in battle and was made king in 1057 He was killed at Malcolm s Cross near Alnwick He was killed at Malcolm's Cross near Alnwick in Nov, 1093 He married Margaret, an English princess, and was known as Canmore, or big head Malcolm IV succeeded his grand father, David I in 1153 He reigned until his death, Dec 9, 1165 All four Malcolms ruled over the southern part of Scotland only and held part of their land as vassals of the English

Malé, or King's, is the largest island and there are 12 others Copra, millet, fruit and nuts are 12 others Copra, millet, fruit and nuts are grown, and many of the inhabitants are fishermen Pop (1931) over 79,000

Waldon Borough scaport and market town of Essex It stands at the

head of the Blackwater estuary, on the LNE Rly The industries include shipping engineer ing works, brewing and milling Pop (1931) 6559

Malesherbes Chrétien Guillaume de Lamoignon de. French politician Born in Paris Dec 6, 1721, he became a lawver and notable censor of legal abuses After his retirement in 1771 he undertook to defend Louis XVI was arrested, and sent to the guillotine, April 22, 1794

Malherbe Françoise de French poet. Born at Caen in 1555, he was a protégé of Cardinal Du Perron, and became a favourite at the court of Henry IV He wrote odes songs epistles, translations and criticisms and had a vigorous if somewhat cold, style He started a reaction against the artificialities of Ronsard and the Pleiade He died in Paris, Oct. 16, 1628

Malines Alternative name for the Belgian city of Mechlin (q v)

Malingering Feigning illness or in order to secure a benefit Cases occur under the national scheme for sickness benefit and in connection with workmen's compensation Most cases are easily detected by experienced medical men

century

Mallard Common wild duck of Great Britain and the northern hemi sphere (Anas platyrhymhos) The name properly denotes the drake only, 24 in long, with glossy green head and neck, white ringed, purplish breast and greyish white underparts The wild drake unlike the domesticated forms, is content with one mate, which lays 8 to 12 greenigh white ergs in down lined grass nests greenish white eggs in down lined grass nests See Duck

Malleability Capability of certain plastic metals of being constrained into new forms by mechanical methods such as hammering or rolling, without fracture The most malleable metal is pure gold See CASTING

Malling Two villages of Kent West Malling Malling, or Town Malling, is 5 m from Maldstone and 36 from London, on the S Riy, and East Malling is about 2 m away A fruit-packing station has been opened at the former place

Malden District of Surrey It is 3 m from Kingston on Thames, and 10 from London on the S Rly To the north is New Malden, a residental district, and the two are part of the urban district of the Maldens and Coombe Pop (1931) 23 412

Maldive Islands in the Indian Ocean and are controlled from Cevion, but have their and are controlled from Cevion, but have their own sultan and government. Of coral formation they are 400 m. to the south west of Ceylon opened at the former place (Malva)

Mallow Genus of herbs, natives of the northern hemisphere (Malva)

The common blue flowered mallow, the iliac dwarf, or round leaved, and the rosy flowered musk mallow grow wild in Britain, the last is returning to favour with gardeners varieties of the hardy annual tree mallow (Lavatera) with rose or white blooms. See Mallow opened at the former place (Malva)

The common blue flowered mallow, the iliac opened at the former place (Malva)

The common blue flowered mallow grow wild in Britain, the last is returning to favour with gardeners varieties of the hardy annual tree mallow (Lavatera) with rose or white blooms. See Mallow opened at the former place (Malva)

The common blue flowered mallow grow wild in Britain, the last is returning to favour with gardeners varieties of the hardy annual tree mallow (Lavatera) with rose or white blooms. See Mallow opened at the former place (Mallow opened at the former place (Ma

Irish Free State It is on the Blackwater, 21 m from Cork, and is a junction on the GS Rly It is an agricultural centre and has a mineral spring Pop 4562

Malm Geological term for one of the three divisions into which the Jurassic System is divided in Germany An alternative name is Whito Jurassic, and it corresponds to the Upper and Middle Oolite in England

Maim stone is an old name given to a cal-careous sandstone occurring in West Surrey,

Hampshire and Sussex

Malmédy Town and district of Belgium The town stands on a little river, and is 25 m from Aix la-Chapelle

The district covers 318 sq m From 1815 to 1918 it was part of Germany In 1920 the people, by a plébiscite, decided to become part

of Belgium

Malmesbury Borough and market town of Wiltshire It is on the Avon, 94 m from London, on the GW Rly To day an agricultural and brewing centre, Malmesbury was once a centre of cloth manufacture Its abbey church has a beautiful Norman porch Pop (1931) 2334

Malmesbury Earl of English title borne by the family of Harris James Harris was born at Salisbury, April 21, 1746, and was educated at Winchestor and Oxford He had a long career in the diplomatic service, and in 1788 was made a baron In 1800 he was made an earl, and he died Nov 21, 1820 His Diaries and Correspondence, also his Letters, are valuable to historians historians

James Edward, the 2nd earl, was succeeded by James Howard as 3rd earl He was born by James Howard as 3rd earl, was succeeded by James Howard as 3rd earl He was born March 25, 1807, and became earl in 1841 In 1852 and 1858-59 he was Foreign Secretary, and he was Lord Privy Scal, 1866 68 and 1874-76 He died May 17, 1859, when his titles passed to a nephew The family seat is Heron Court, pager Repurpersuith and the contractions of the seat is the contraction of the seat is the se Court near Bournemouth, and the eldest son is called Viscount Fitzharris

Malmö Scaport of Sweden It is on the Sound, beyond which is Copenhagen, 16 m away There is a good harbour and the place is well served by railways Apart from shipping, for which there is ample accommodation, the industries are connected with the virial water of technical surprised on the connected with the virial water of technical surprised on the connected with the virial water of technical surprised on the connected with the virial water of the connected with the virial water of the connected wate with the production of tobacco, sugar and other commodities It has a broadcasting station (231 M, 125 kW) Pop (1932) 129,927

Malmsey Sweet high-flavoured wine produced from grapes grown in the Middle Ages in the Ægean, and exported from Monemyasia in the Morea The French name, Malvolsie, is also used Its modern model. representative, produced at Santorin, mostly goes to Russia. White wines of Malmsey type come from Cyprus, Sicily, Sardinia, the come from Cyprus, Sicily, Si Canaries, Madeira and the Azores

Malory Sir Thomas English writer He appears to have come from Warwickshire to London, to have been a politician and a seldier, to have died in 1471, and to have been buried in the Grey Friars near Newgate His Moric d'Arthur is one of the treasures of English literature He evidently collected from reasons and writers the logander collected from various old writers the legends about Arthur and his knights and arranged them in an orderly way The book was finished in 1469 and was first printed, by Caxton, in 1485

Malpas Town of Cheshire It is 13 m the LMS

Rly Pop 1100
Another Malpas is a village in Cornwall. It

Another Malpas is a village in Cornwall. It is on the Fal, 2 m from Truro

Malplaquet Village of France It is famous for the battle fought here Sept. 11, 1709, between British and Austrian armies under Mariborough and Prince Eugène and a French army under Villars The French were utterly routed, but the allies were too weak to pursue them About 90,000 men were engaged on each side. the British and their allies lost

on each side, the British and their allies lost 20,000 men and the French 12,000

Malt Partially germinated grain of various by which it is prepared is termed malting In Britain barley is used generally in brewing, spirit and vinegar manufactures, but in Germany and other countries wheat rice and other many and other countries wheat, rice and other cereals also are used. The barley is steeped first in water, then the soaked grain is spread on a floor or in revolving drums and allowed on a moor or in revolving drums and allowed to germinate up to a certain stage During this process the ferment diastase is formed and converts the starch present into maltose (qv) and dextrin The "green malt" is dried in a kiln and finally cured at a greater heat without free circulation of air until the mass becomes friable brown in colour, and develops a distinctive flavour A watery infusion of malt is known as "sweet wort," and a thick syrupy extract is used medicinally See Brew ING

Malta Island of the Mediterranean Sea It is about 55 m from Sicily, is 17 m long, and covers 95 sq m It is an important British naval base Valletta, which succeeded Città Vecchia as the capital, is the chief harbour The interior is hilly, but there are fertile valleys where oranges, figs, olives, grapes and other fruits grow freely Horses, sheep and goats are reared and many mules come from Malta, which is also famous for its honey and lace The fisheries are valuable Malta was ruled in turn by the Phoenicians

Malta was ruled in turn by the Phænicians, Greeks, Carthaginians, Romans and Arabs It was then attached to Sicily and to Aragon It was part of the empire of Charles V and that ruler gave it to the knights of S John, who fortified it and ruled it until 1798, when it was seized by Napoleon It was formally handed over to Great Britain in 1814

In 1921 a constitution was given to Malta This provided for a legislature of two houses, the members of the lower house being elected Matters of imperial concern, such as defence, trade and coinage are under the control of the governor, who is assisted by two councils English is the official language and British coins are the level tender but the islanders coins are the legal tender, but the islanders have their own tongue, a Semitic one, which is in general use. The island has an order of nobility consisting of 29 families, and there is a university

university
In 1929 there was a serious dispute between
the state, represented by Lord Strickland, and
the Church of Rome, to which most of the
people belong The interference of the priests
in secular matters led to a crisis, and after
negotiations for a settlement had falled, the
constitution was suspended on June 26, 1929
A royal commission visited the island to inquire
into the matter in 1931 and in 1932 the constitution was restored and an election held.
Pon (including Gozo and Comino) 241,621 Pop (including Gozo and Comino) 241,621

Malta Fever Variety of fever found in the Mediterranean

countries, also in other parts of the world It takes very much the same course as other fevers, but the illness lasts longer than in most of them, sometimes as long as six months It is caused by a parasite which is conveyed by the milk of goats

Maltese Terrier Breed of dog It of lap dog, traceable for 2000 years, the inaccurate name terrier is becoming obsolete It resembles a toy Skye terrier, averaging 5 to 6 lb, dark-eyed, black nosed, with long, white, sliky coat and thickly haired tall curling over the back It is intelligent, affectionate and good tempered

Malthus Thomas Robert. English econor Dorking on Fob 17, 1766, and became curate of Albury, Surrey in 1797 In 1798 he published anonymously his Essay on the Principle of Population which set out to prove that increase of population was dependent upon the presence of warmth and food, and would only be checked by the lack of these things, or by such positive checks as disease, epidemics, wars and plagues In 1805 he was appointed Professor of Political Economy in the East India College at Haileybury He wrote Principles of Political Economy in 1820 He died near Bath on December 23, 1834

Malton Urban district and market town of Yorkshire (NR) It is situated on the Derwent, 21 m from York, on the LNE Rly The industries include brewing, milling and tanning The town is a centre for the breeding and sale of horses and has racing stables. Pop. (1931) 4418

Stables Pop (1931) 4418

Maltose Name given to malt sugar, a carbohydrate belonging to the group of disaccharoses containing twelve atoms of carbon. It is formed by the action of the ferment diastase, present in malt, upon starch of which 80 per cent is converted into sugar It undergoes fermentation by yeast, producing alcohol.

Malvern Inland watering place and urban district of Worcester shire It consists of Great Malvern, Little Malvern Hills Great Malvern is 128 m from London, on the G W and L.M.S Rlys The town has medicinal waters Pop (1931) 15.632

Malvern Hills Range of hills in England. They are chiefly in Worcestershire and Herefordshire and the highest points are 1400 ft. high The chief hills are Worcester, Hereford and Gloucester Beacon and they are best visited from Malvern Some part of the region is national property and in 1930 31 steps were taken to protect them from disfiguration by quarrying The district was once a hunting ground and was called Malvern Chase

Mamelukes Body of slaves trained to arms They were utilised by Saladin's successors in 13th century Egypt as a mounted bodyguard Their leader made himself sultan, 1250 a Bahri and then Circassian dynasty of Mameluke sultans fol lowed. The Turkish domination, 1517, en throned a Turkish pasha, who ruled through 24 provincial Mameluke beys. Napoleon I defeated the Mamelukes, 1798, but they retook the country until Mohammed Ali with French support, became pasha, treacherously assas sinating the surviving beys and their followers in 1811

Mametz Village of France, 5 m. from Albert. During the Great War it was captured by the British in the Battle of the Somme, July 1, 1916, but it was lost in March, 1918

Mammal Highest division of the animal kingdom Mammals are air breathing and warm blooded vertebrates, which, with the exception of the lowest group, the monotremes, are viviparous and suchle their young The foetus undergoes a gestation period during which it is nourished by an organic connection between the foetal membranes and the uterine wall or placents. The spinal column is characterised by having intervertebral discs between the centra, the skull possesses two condyles and articulates directly with the lower jaw A hairy covering is usually present, and the brain differs from that of the lower vertebrates by having a band of transverse fibres, the corpus callosum

Mammon Aramaic word for riches, used (Matt vi), and the parable of the Unjust Steward (Luke xvi) Personifying inordinate love of gain, mediaeval Europe gave the name to a demon, as figured in Milton's Paradize Lost

Mammoth Extinct member of the elephant family It was found in N latitudes in glacial and preglacial times In build it closely resembled the Indian elephant, but was provided with a thick, hairy coat over a woolly undercoat, and its long, elender tusks were curved upwards and outwards Remains still retaining the flesh have been found in the icy gravels of Siberia, and its bones are present in many deposits as well as drawings by primitive man upon ivory fragments

Mammoth Cave Large cavern in the limestone rook S of Louisville, Kentucky It has more than 150 m of passages with subterranean lakes and streams The chambers and passages present many different forms such as grottoes, domes, galleries and avenues, some having masses of stalactites and stalagmites or a covering of calcite crystals The chief chamber is 4 m long, 125 ft in height, and in places 300 ft. wide

Man Genus of biped mammals of the order of primates (Homo) Biologically related to the other members of the order, the apes, monkeys and baboons, man presents peculiar differences of structure and aptitude, physical and mental These include perfectly opposable thumbs on the hands erect posture, gracefully curved spinal column, arms relatively shorter and legs relatively longer and stronger, progression on the soles of the feet, brain relatively larger and more complex than in any other animal and capacity for articulate speech and education, whence came human civilisation Man like precursors intermediate and incomplete, lived in earlier geological ages Modern man is regarded as a single species, Homo sapiens See Anthropology, Eth

Wan Island off the NW coast of Great Britain It is 33 m long and covers 221 sq m At the 8 end is a small island called the Calf of Man The island, a popular pleasure resort lies about an equal distance from England, Scotland and Ireland (27 m) Douglas is the capital, other places are Peel, Ramsey, Castletown, Port Erin and Laxey, connected by railway or electric tramways with Douglas and one another The highest

The attractions of the island include a mild climate in which fuchsias grow freely in the open. In the summer steamers ply regularly to Douglas from Liverpool, Barrow, Glasgow

and other ports

Man is a part of the British Empire, but has its own constitution This consists of a Council and a House of Keys, an elected body of 24 members A Lieut Governor represents the King It has its own legal system, but its church, under the Bishop of Sodor and Man, is part of the Church of England The island is divided into six sheadings, and its two judges are called deemsters The coat of arms is three legs The Manx language, a Celtic one, is still spoken by a few of the people Manx cats are tailless

tailess

The island was inhabited by Celts who became Christians in the 6th century. From the Kings of Norway it passed in 1263 to the Kings of Scotland Edward I secured it for England, and in 1406 Henry IV gave it to Sir John Stanley The Stanleys were Lords of Man until 1736, and their successors, the Dukes of Atholl, from 1736 to 1765, when the sovereign rights were acquired by the English Government The rest of the Duke's rights were bought in 1827 Pop (1931) 49,338

Managua Capital of the republic of Nicaragua Connected by rail with Granada, it stands on the S side of the Lake of Managua, and has a university and an Lake of Managua, and has a university and an air station. There is a trade in coffee, sugar, bananas and other products, and some manufactures. The city was damaged by an earthquake in 1931. Pop. 33,000.

Manaos. City and river port of Brazil On the Rio Negro, a tributary of the Amazon, it has a university and is the capital of the state of Amazonas. There are large docks and steamer connection with

large docks and steamer connection with Europe Pop (1930) 83,736

Manasseh Elder son of the patriarch Joseph, but less important His descendants were estabthan Ephraim then Ephraim His descendants were established N of Ephraim in Samaria, and also in Gilead and Bashan, E of Jordan Another Manasseh was a king of Judah, 697 642 B C A son of Hezekiah, whose reforming policy he abandoned, his persistent idolatry contributed to Jerusalem's destruction and the Jewish exile

Manatee Genus of aquatic mammals of the sea cow order They inhabit estuaries and rivors on the tropical Atlantic coasts of America and Africa They are inoffensive, thick-skinned, 8 ft long, with hand like fore paddles and no hind limbs, and feed on aquatic berham. feed on aquatic herbage Amazonian natives eat the flesh

Manche Name used by the French for Is also the name of a department which has a coastline on the channel and includes the Cotentin Peninsula St Lo is the chief town and Cherbourg the chief port

Manchester City of New Hampshire The largest city in the state it is 16 m from Concord, on the River Merrimae The chief industry is the manufacture of cotton 100 75 224

Merrimae The chief industry is the manufacture of cotton Pop 76,834

Manchester City of Lancashire, on London by the LNE and LMS Rlys The city area covers 34 sq m

point, Smefell, is 2034 ft high, and there are some beautiful glens. Oats and barley are buildings in the city. The Rylands Library, grown, and dairy farming, lead mining and fishing are other industries.

The attractions of the island include a mild climate in which fuchsias grow freely in the climate in which fuchsias grow freely in the climate in which summer steemers by recorded to convice a construction of the few old buildings in the city. The Rylands Library, in a fine modern building, is a priceless collection of books and manuscripts. The cathedral, formerly the parish church, dates from the climate in which summer steemers by recorded to the few old buildings in the city. The Rylands Library, in a fine modern building, is a priceless collection of books and manuscripts. The cathedral, formerly the parish church, dates from the climate in which such as a summer statement of the few old buildings in the city. The Rylands Library, in a fine modern building, is a priceless collection of books and manuscripts. The cathedral, formerly the parish church, dates from the climate in which such as a summer statement of the few old buildings in the city. The Rylands Library, in a fine modern building, is a priceless collection of books and manuscripts. old, occupies a fine new building at Fallowfield The public parks include Heaton Park In 1932 arrangements were made to build a new City Hall

Manchester is the headquarters of the cotton manufacture in England and a great distributing centre Other industries are engineering and chemical works, and the manufacture of clothing The university grew out of Owens College, and the city is famous as a musical centre, with a Royal College of Music and the fine Hallé Orchestra Its leading newspaper, the Manchester Guardian, is known throughout the civilised world The city is governed by a lord mayor and council, and sends 10 members to Parliament The sporting facilities include a racecourse and the ground Manchester is the headquarters of the cotton facilities include a racecourse and the ground of the Lancashire cricket club at Old Trafford It has two famous association football clubs, Manchester United which won the cup in 1909, and Manchester City which won it in 1904. There is an aerodrome on Chat Moss. It has two broadcasting stations, North Regional (480 M, 50 kW) and North National (301 5 M, 50 kW) Pop (1931) 766,333 See Manchester Ship Canal

Manchester Duke of English title held by the family of Montagu Sir Henry Montagu, a judge, was made Earl of Manchester in 1626 His son, the made Earl of Manchester in 1626 mis son, the 2nd earl, was a Parliamentary leader in the Civil War In 1719 Charles, the 4th earl, was made a duke The family seats are Kimbolton Huntingdonshire, and Tanderagled Castle, Huntingdonshire, and Tanderagee Castle, Armagh The earl's eldest son is called Viscount Mandeville The title is t Godmanchester, near Huntingdon The title is taken from

Ship Manchester Canal

Canal connecting Manchester with the estuary of the Mersey The work was begun in 1887 and the canal opened for traffic in 1894. It cost about £20,000,000. It is 35½ m long and goes from Trafford Park, Manchester, to Eastham on the Mersey Well provided with docks and warehouses, it is 28 ft in depth, and steamers of 12,500 tons can navigate it the passes by Runcom and Ellegarge Post.

It passes by Runcorn and Ellesmere Port

Manchu People of Tungus stock in E

Manchu Asia Tall, slender, mediumheaded, level-eyed, they effected contact with early Caucasoid migrations, peopled Manchuria, and imposed a dynasty on China in A D 1644, which the Republican Revolution ended in 1912 Largely displaced in Manchuria by Chinese immigrants, their Altaic speech and script linger only in scattered groups

Manchukuo District of E Asia, formerly Manchuria but since 1932 an independent state It is between the Amur, which divides it from the territory of the Soviet Republic, and China, to which it formerly belonged Its 3 provinces cover 363,610 sq m, and are served by the S Manchuria and Chinese Eastern Rivs The soil The soil is very fertile and the population has recently increased greatly The soys bean is the chief product, but wheat, barley and millet are grown Mukden is the largest city and the old capital, but Changchun was made the capital of the new state in 1932 Other towns and ports are Newchwang, Antung, Dairen or Dalny, and Port Arthur

The possession of Manchuria was often a matter of dispute Russla obtained a footing in the country, but in 1905 her rights therein were transferred to Japan After the Great War there was a considerable amount of law lessnoss in the province, in which Japanese troops remained They were employed to crush the marauders, while from time to time came reports that the Soviet authorities were anxious to take some share in the affairs of the country The control of the railway system was another cause of friction

In 1932 Manchurla was proclaimed inde pendent as Manchukuo, and the former Emporor of China, Mr Pu YI, as he was named, was installed in March, as ruler of the state of the Manchus He was called the Administrator, and his office declared elective The new government expressed its desire to meet the obligations which it formerly owed as part of the Republic of China Just before this event the League of Nations had sent out a commission to investigate the circumstances of Japanese control and to inquire into the forma Japanese control and to inquire into the formation of Manchukuo The report of this commission was accepted by the League in Feb, 1933 In Jan, 1933, however, it was decided to make Mr Henry Pu hereditary Emperor of Manchukuo and he was crowned March 1, 1934 The State is nominally independent but is actually under the domination of Japan Pop 25,000,000

Pop 25,000,000

Mandaeans Eastern religious sect, resembling the Gnostic Christians of the second and third centuries Their belief derived from the New Testament but containing Jewish and Parsic elements reveres John the Baptist They are therefore sometimes called Christians of Saint John, or Subba (Baptists) and identified by Moham medans with the Sabacans of the Koran Very few reverse and those mostly in Iraq few now remain and those mostly in Iraq

Mandalay City and river port of Burma, on the Irawadi, about 400 m from Rangoon The old city was burned down in 1892, but two of the palaces and the walls remain. It is now the British quarter and is called Fort Dufferin. In the parameter is the collect for the collect remain It is now the British quarter and is called Fort Dufferin In the new city the finest building is the group of several hundred pagodas which compose the great temple named Kuthodaw The city does a large trade in the products of the country From 1837 to 1885 Mandalay was the capital of the kingdom of Burma Pop (1931) 147,932

Mandamus in English law the name of a writ The word in Latin means "we command" It is issued by the King's Bench division in cases where a public body, or occasionally a private person,

Mandarın Name, derived by Portu gueso navigators from Hindu, in general European use for any public official in China civil or military, who wears a button The native name is kvan Nine grades are indicated by the material and colour of the button knobs and girdle clasps, and the devices embroidered on the robes.

Mandarın Duck Small freshwater duck indigenous to E Asia (Aix galericuldia), It is also called the Chinese teal. The drake has purple, green and chestnut plumage, with long, silky, erectile crest. One of the shoulder feathers expands into an upturned purple banded chestnut fan Mandate Command When a person is elected to Parliament, or some other body, on a particular question, he or his party is said to receive a mandate

Since the Great War the word has been used for the authority given by the League of Nations to a country to administer the affairs of another country Countries responsible for Mandated Territories, as they are called, receive mandated refrictions, as they are called, receive their directions from the League, and reports about their work are issued from time to time Great Britain governs Tanganyika and Palestine, and until 1931 governed Iraq, under mandate France governs Syria, and British Dominions govern SW Africa and certain televide in the Parties islands in the Pacific

Mandeville Sir John English author. author of a book of travel written about 1360 The information is taken from earlier books and contains much legendary matter as well as a certain amount of actual travel details One theory is that the author was a certain John de Bourgoyne, but this may have been a name taken by Mandeville Mandeville died at Liège Nov 17, 1372

Mandoline Musical instrument of the lute family still popular in Italy The Neapolitan mandoline has four pairs of motal strings tuned in fifths It is played with a tortoiseshell plectrum, and 17 frets mark the stoppings The larger Milanese mandeline has five or six pairs of strings tuned like the lute Handel, Paiselle, Mozart and Beethoven composed for the mandeline occasionally

Mandrake Gonus of perennial herbs of the potato family, (Mandragora) They are stemless plants with thick, tleshy roots whose forked growth simulates man's lower of limbs Fantasiic superstitions have pertained to them since the days of Rachel (Gen xx) Long credited with narcotic and other properties, they are of no economic importance They grow around the Mediterrancan Soa

Mandrill Species of the baboon family, (Panio maimon), a native of W Africa, where it is found in communities It is remarkable for its bright colouring, the muzzle being bright red with blue on either side, and the hinder parts purplish The fur is brown and the beard yellowish

Manet Edouard French painter IVIANCE reactest exponent of the Impressionist school he was born in Paris, Jan 23, 1832, and studied under Couture His work, notably 'The Garden' first of the "plein air" school, and 'Olympia ' aroused much hostility and was frequently evoluded from the Salon, causing Manet and his followers to exhibit independently He died in Paris April 20, 1883

Metallic element having Manganese Wanganese the symbol Mn, atomic weight 54 93, and melting point 1898° C It is a brittle steel grey metal which exidises rapidly in moist air In its commercial form manganese usually contains up to 5 per cent of silicon, which increases the hardness and resistance to corrosion. Its alloys are of great economic value, especially those with steel, and its compounds enter into many industries Its chief ores are pyrolusite, wad and manganite

Mange Transferable skin complaint in various domestic animals. It is due to minute parasitic mites. Sarcoptic mange, caused by burrowing itch mites, occurs in dogs, horses, pigs, goats, cats and others Psoroptic mange, caused by skin boring mites, occurs in horses, cattle and sheep Follicular mange, caused by worm like mites (*Demodex*), affects the hair follicles of dogs Mango Tall, evergreen tree of the cashew ndies and Malava (Manguera indica) Reaching 10 or 40 ft in height, it is cultivated in tropleal Isla, Africa and America for its fleshy, eddish yellow, kidney-shaped fruit This, when unripe, is a favourite ingredient of that they Cultivated forms of luscious flavour presteemed for dessert.

wro esteemed for dessert

Mangold Wurzel grown field. sect, a biennial herb of the goosefoot family Beta vulgaris) Red and yellow forms, of rarying shape and solid content, serve as vinter fodder for livestock Sugar develops luring storage, only old roots being palatable. The so-called root includes the original stem, he so called seeds are fruit-clusters

Mangosteen Evergreen tree (Garcinia Malaya and the E Indies and produces a uscious fruit, the size of a small orange The thick purplish rind encloses a white or reddish pulp of delicate flavour The juice of the rind is very astringent and is used medicinally in cases of dysentory. cases of dysentery

Mangotsfield Urban district of Gloucestershire It is a junction on the LMS line from Bath and Bristol, 51 m from Bristol and 122 from London Thore are collieries in the neighbour-

Mangrove Name denoting various trees abounding in tropical coastal swamps The common mangrove (Rhizophora mangle) with thick, smooth, leathery leaves and large four-petalled flowers, sends down from the trunk and branches spreading stilt-like roots which, in conjunction with new growths from seeds germinated in the still hanging fruit and then falling, form interminable forests Bark extracts are made for tanning The central American courida or black mangrove (Avicennia nitida) is allied to the white mangrove of Queensland and elsewhere

Manhattan Island of the United States
It is at the mouth of the
Hudson River, and most of New York City
stands on it The island is 13 m long and
about 2 m wide in the centre, narrowing at either end

Mania Form of insanity characterised by over activity of the brain Simple mania is marked by much loquacity and instability of conduct or emotion. In acute mania speech becomes incoherent and will-power disappears, the sufferer becoming "raying mad".

The conset is usually gradual, possibly due to The onset is usually gradual, possibly due to toxic changes in the blood of the brain Sometimes fatal through sheer exhaustion, most cases recover, either abruptly or after relapses, but it may pass into chronic mania, and this into dementia

Manichaeism Religious system founded by the Persian Mani, or Manichaeus, in the 3rd century, AD Based upon Magian dualism, with Buddhist, Gnostio and Chaldean features, it regarded the world as resulting from a conflict of light and darkness, man as engendered by Satan, and Mani himself as the last and greatest prophet Confronting Christianity and Mith-raism, it spread to Mesopotamia, Central Asia, W Christendom and N Africa, long resisted Islamic opposition, acquired at times Christian elements, and influenced the Albigenses

Term applied to the treat-ment of the finger nails to Manicure

preserve their healthy condition and appearance The nails are cleaned in soapy water and shaped with a flexible steel file Orange wood sticks are used for pressing back the cutiole, the loose portions of which are removed by a cuticle knife or fine seissors

Manila Capital and seaport of the Philippine Islands. It stands on the W. side of Luzon where the River Pasig falls into Manila Bay. The old town is surrounded by a wall, and the cathedral dates from the 16th century. There is a university dating from 1857 and organised on modern lines. The older one, founded in 1585, was closed in 1730. Nof the old city, across the Pasig, are modern suburbs. There is a good harbour and water supply. Pop. (1932) 341,034. In Manila Bay on May 1, 1898, a Spanish fleet was sunk by the Americans under Commodore Dewey, and on Aug. 13 the city was taken.

Manila Hemp Fibre having great strongth, tonacity and lightness It is obtained from the leaf-bases of Musa textilus, a plant of the banana family growing in the Philippines It is used for making ropes and cordage, and the finer grades for muslins and other fabrics, also as a hindian reterial for placetor.

binding material for plaster

Maniple Division of the Roman legion
wards the 3000 heavy-armed infantry formed
20 maniples of 120 and 10 of 60, each with two conturions and a standard bearer

Maniple Eucharistic vestment Anarrow stole-like strip about 30 in long, originally of linen, afterwards of other materials embroidered and fringed, it is looped over the left wrist Disused by the English Church at the Reformation, it tends to reappear, sometimes for wiping the chalice rim

Manipur Assam and covers 8456 sq m The ruler is a rajah, and the capital is Manipur or Imphal The Indian Government, which put down a rising here in 1891, receives tribute from the state and has some control over its offairs Pop (1931) 445,606

Manitoba Province of Manitoba, it lies to the S W of Lake Winnipeg It covers 1500 sq m and is 120 m long Its waters are carried by the Little Saskatchewan River to Lake Winnipeg Province of the Dominical

Manitoba Province of the Dominion of Canada Between Ontario and Saskatchewan, it is one of the prairie provinces and covers 251,832 sq m. Winnipeg is the capital The chief rivers are the Red and the Nelson and its lakes cover 20,000 sq m. The largest are Winnipeg, Winnipegosis and Manitoba Wheat, barley, maize and oats are produced in large quantities and there is a good deal of dairy farming Coal is mined The province is governed by a legislature of one House and a Cabinet responsible to it, and is represented also in the Parliament at Ottawa

represented also in the Parliament at Ottawa
The province was formed in 1870 from land
bought from the Hudson Bay Company It
was enlarged in 1881 and again in 1912
Before 1870 it was called the Red River Settlement The University of Manitoba was
founded in 1877 and owns large tracts of land.
It consists of colleges in Winnipeg and the
neighbourhood Pop (1931) 700,139 See CINADA

Mann Thomas German writer Born at Lübeck, June 6, 1875, at the age of

19 his family removed to Munich, and while working in insurance, he devoted himself to He published Buddenbrooks in 1903, literature a massive story of a family of Lübeck mor chants, such as his own He wrote short stories and a novel, and in 1925 another long novel, Der Zauberberg (English translation, The Magic Mountain, 1926), the story of the people in a tubercular convalescent home in Davos He has written essays and one play and he was awarded the Nobel Prize for Literature in 1929

Mann Tom English politician Born at Foleshill, Warwickshire, April 15, 1856, he worked on a farm and in a coal mine as a boy Later he became an anglescore. apprentice in Birmingham Prominent in the trade union and Socialist movements, he was a leader of the dockers' strike in 1889 He was e season of the dockers strike in 1889 He was first secretary of the Independent Labour Party, 1894 96, of the London Reform Union and of the National Democratic League, and became associated with the syndicalist move ment. He was active as a Labour lead to the ment. He was active as a Labour leader in ment. He was active as a Labour leader in Australia between 1902 and 1908, and in S Africa. In 1918 21 he was general secretary of the Amalgamated Society of Engineers. He has written A Socialist's View of Religion, Russia in 1921, Tom Mann's Memoirs and What I Saw in China, 1927

Manna Saccharine exudation, obtained from incisions in the stems of Fraxinus ornus, the manna ash, a native of S Europe. It is used in the form of yellowish brown fragments or flakes in medicine as a mild laxative Similar exudations are derived from a number of trees, the manna of the Bible

probably being that from the tamarisk

Mannheim Boden, Germany Itis 40 m
from Karlsruhe, where the Neckar flows into from Karlsruhe, where the Neckar flows into the Rhine It is a modern town with a number of manufactures and a large harbour The palace, once the residence of the Margraves of Baden, has a museum, picture gallery and library The National theatre has associations with Schiller From 1720 to 1778 Mannheim was the capital of Baden Pop 247,500

Manning Henry Edward English Cardinal. Born at Totteridge, July 15, 1808, he was made rector of Lavington in 1834 Manning was attracted by the Oxford

Manning was attracted by the Oxford Movement and in 1851 joined the Church of Rome He was ordained priest and worked as chief of the oblates of S Charles at Bayswater He acted as assistant to Cardinal Wiseman and succeeded him in 1865 as Archbishop of West minster In 1875 he was made a cardinal, and he died Jan 14, 1892 He is buried in West minster Cathedral.

Manning was a prominent figure in his day and did a great deal for his Church in England He was a social reformer, keen on housing and temperance In Lothair he is portrayed as Cardinal Grandison He wrote The Elernal

Priesthood and other books

Manningham Industrial district N W of Bradford, on the L M S Rly Here are large mills of Messrs. LMS Rly Lister and Company, and Manningham Park. Manningtree Market town of Essex, Stour, 8 m from Colchester, on the L N E Rly The industries include malting and a trade in agricultural produce

Manoel Two kings of Portugal Manoel I was king from 1495 to 1521

He encouraged Vasco da Gama and others to go on voyages of discovery

Manoel II was born in Lisbon, Nov 15, 1889, the son of King Carlos I and a Bourbon princess He became king on Feb 1, 1908, on the murder of his father and his elder brother In 1910 he was deposed and settled in England. In 1913 he married a princess of the Hohen zollern family He died July 2, 1932

Manometer Instrument for measuring the pressure of gases. Its principle is illustrated by a U shaped tube partially filled with liquid If the pressure on both surfaces is equal, the height in both limbs romains the same, but with increasing pressure the liquid rises in one limb The parometer and steam gauge are formed. barometer and steam gauge are forms of manometers

Manor Name used for a landed estate. In the Middle Ages the manorial system was in force over a considerable part of system was in force over a considerable part of England. The lord, who held the land from the king or a great noble, lived in the manor house, some of it he let out to tenants, who paid him by working for him on certain days Other parts of the land, called the desmesne, he cultivated by the aid of this labour and a further part was woodland or common where the tenants grazed their animals. The arable land was divided into strips, and each tenant, called a villein, had a share in each of the common fields of the manor. share in each of the common fields of the manor

The manors varied in size, and the poorer tenants were called borderers and cotters. None of the tenants was free to leave the estate. The lord held courts and a record or manorial roll was kept of the services due from

the tenants for their land. the tenants for their land.

F W Maitland in Domesday Book and Beyond thinks the manor was an estate assessed separately for the geld or tax paid to the king The system began to decay in the 14th century and had disappeared by the 16th, although traces of it remained, copyhold in land for example, and the remaining manorial rights were bought and sold until finally abolished by legislation in 1925 It is estimated that there were 20,000 manors in England.

Mansard Type of roof, named after its French inventor, François Mansard (1598-1666) The lower part of the roof is steeply pitched while the upper part is but slightly inclined. The Mansard roof was suitable for large buildings and provided ample space without unduly increasing the height.

Borough and market town Mansfield Mansfield of Nottinghamshire, on the Maun, 139 m. from London and 13 from Nottingham, on the L MS and L.N. E. Rlys. It owes its early fame to its association with Sherwood Forest. In the 19th century its expanded a good deal owing to the opening of coal mines, and there are now factories for modding, beginny mechanic western mechanics. making hosiery, machinery silk and cotton goods, boots and shoes The town has a technical school for the mining industry Pop (1931) 46,075

Mansfield Earl of Scottish title borne by the family of Murray. The first earl was William Murray, a famous lawyer Born March 2, 1705, he became a barrister and an MP, was Solicitor General and then Attornoy General, and in 1756 was made Lord Chief Justice and a baron He was one of the leaders of the political group that carried on the government in the interests of George III He retired in 1788 and died March 20, 1793 George III 20, 1793 20, 1793 Mansfield gave some famous legal decisions,

including the one that slaves who land on the Belvedere chapel in the Vatican, Rome. English soil are free His London house was He died Sept 13, 1506 burned in 1780 during the Gordon riots, another of his residences was Ken Wood at Mantilla in Spain and Spanish countries Hampstead

The carl's scat is Scone Palace near Perth, and his eldest son is called Lord Scone

Mansfield Katherine was British writer Zealand in 1880, the daughter of Sir Harold Beauchamp, and educated at Queen's College, London In 1911 she published her first volume of stories In a German Pension, and she wrote or stories in a German Pension, and she wrote for The Athenaeum In 1920 a volume of stories, entitled Bliss, made her reputation, and this was followed by The Garden Party, Prelvde and The Daughters of the Late Colonel In 1913 she married the critic, J Middleton Murry She died Jan 9, 1923, after a long illness In 1924 The Journal of Katherne Manafield and in 1928 her Letters appeared in 1928 her Letters appeared

## Mansfield Woodhouse

Urban district of Nottinghamshire, 2 m from Mansfield, on the LMS Rly Coal mining is the chief industry Pop (1931) 13,707

Manship Paul American sculptor Born Dec 25, 1885, he studied art in Philadelphia and Rome He soon came to be regarded as one of the leading sculptors of the day He executed the Morgan Memorial in the Morgan Memorial in the Metropolitan Museum of Art in New York and other exquisite pieces there and in Paris

Mansion House Official residence of the Lord Mayor of the Lord Mayor of London It stands opposite the Bank of England, was built between 1739 53 from designs by George Dance, and restored and extensively improved in 1930 31, when a fine roof garden was added The finest room is the Egyptian Hall, wherein the banquets are held Attached to it is the police court There is a mansion house for the Lord Mayor in York, and another in Grafton St. Dublin Bristol also has a mansion house

Manslaughter In English law the unlawful killing of another without premeditation. It may be due to an accident or done in the heat of the moment, or as an act of self-defence. It may be the result of neglect, as when a failure to call in a doctor results in death The maximum punishment is penal servitude for life Manslaughter is not recognised in Scots law

Manston Village of Kent, on the coast between Margate and Rams gate Here in 1920 a camp was opened for teaching trades to men who had served in the Royal Air Force

Mansurah City of Egypt It stands on Nile, and is a prosperous trading and cotton growing contre Here, in 1248, St Louis of France was imprisoned when retreating at the boad of his consequence. Thate was imprisoned when retreating if the head of his crusading army from Damietta. The fortress which was his prison has been restored. Near are the ruins of a temple dedicated to Isis. Pop. 63,076

Mantegna Andrea Italian painter settled in Mantua and soon won a position in the front rank. Nine of his pictures, a series called "The Triumph of Julius Caesar" are in Hampton Court Palace, and he is represented in the Louvre Much of his work took the form of decorations for churches among them Wantegna Andrea Italian painter Born at Vicenza in 1431, he settled in Mantua and soon won a position in the front rank Nine of his pictures, a series called "The Triumph of Julius Caesar" are in Hampton Court Palace, and he is represented in the Louvre Much of his work took the form of decorations for churches, among them called Viscount Newark Maori People of Polynesian stock in New Maori People of Po

Sometimes supported by a loftv head-comb, and draped over the head and shoulders, it may serve as a veil, being made of black or white lace and other material, often costly It developed from the light cloak thrown over the dress

Mantis Genus of insects of the orthop-locusts and are sometimes called the praying mantis because the forelegs assume an attitude of praver

Mantling In heraldry, the mantelet, lambrequin or scarf, represented as floating from the helm or crest, It is usually jagged as if tattered in conflict, or tasselled It degenerated into a foliated scroll, or became a mere ornamental appendage to an escutcheon, comprising a background of flowing drapery adjusted in folds, sometimes lined with ermine

Mantua City of Italy, on the Mincio, 100 m from Milan The city was for 400 years the capital of the duchy ruled by the Dukes of the Gonzaga family It is chiefly interesting as the birthplace of Virgil (qv) Pop (1931) 42,939

Manu hythical Hindu being Springing from the self-existent Brahma, he divided himself into male and female, whence came in process of time the present human race A Manu deluge-legend recalls the Biblical story of Noah Sanskrit law books, recast about the Christian era, contain digests of primitive law, cited as the Code of Manu

Manure Name given to the various for enriching the The oldest is farmyard manure which contains all the essentials required by plants Guano, the excrement of sea-birds, and bone, blood, fish and other organic refuse are valuable fertilisers To supplement the many organic manures inorganic substances such as sodium nitrate, ammonium sulphate, basic slag, and superphosphate are employed In certain cases, special fertilisers are used, such as shoddy for

Manuscript Anything handwritten. Specifically the word denotes an ancient or mediaeval writing produced before the general adoption of printing in the 5th century, usually abbreviated to MS, plural MSS Such writings, once made on waxed tablets fastened together, came to be made on papyrus, parchment or paper, forming a volume or roll, or a codex in book form, and multiplied by copying singly Some contain illuminations of great beauty and historic value See Palaeography, Palimpsest

Charles Medows, MP, inherited the estates of the Duke of Kingston in 1788 and took the name of Pierrepont In 1806 he was made Earl Manvers, and his descendants have since held the title The family seat is Thoresby, near Mansfield, and the earl's eldest son is called Viscount Newark

Maori People of Polymerica Manvers Earl English title borne by

migrants intermingled with indigenous Papua sians Romarkable cultural developments occurred, marked by jade adzed timber houses, decorative wood carving and flax weaving. The ruling chiefs practised face tattooing, jade amulets, tiki simulating human embryos, were worn When Great Britain undertook sovereignty, 1840, conflicts with the natives developed, 1843 47 and 1861 71 Since then the Maoris have become law abiding and nominally Christianised They have a native representative on the executive council, and four elected members in the Parliament of sinns Romarkable cultural developments four elected members in the Parliament of New Zealand

Map Representation upon a plane surface of the earth or some part of it as the earth's surface is curved, its true form and proportion cannot be shown on a map without some degree of distortion To reduce this distortion as far as possible various projections are adopted Mercators projection is cylindrical, with parallels of latitude shown as straight lines other projections are the stereographic, showing less distortion and the conical, suitable for small areas Contour maps show the contour of a district by lines running through points of equal clevation

Maple Genus of deciduous trees and shrubs of the scapwort order (Acer) They are natives of N temperate regions The fruits are ash like two winged Many species are planted for their timber with the control of the cont (Acer) regions valuable timber, sugary product or richly tinted and variegated foliage Britain's in digenous small leaved maple is A campestre the false sycamore or great maple, A pseudo platanus 40 to 60 ft high, has long been naturalised. The spring sap of the still taller American sugar or bird seys maple and red flowered or curied maple regularly yields maple sugar

Maple Sir John Blundell English busi Born in London March 1, 1845 he joined his father in business as a seller of furniture. Under his control the firm became one of the largest of its kind. It still flourishes in Tottenham Court. Rd. London. In 1887 Maple entered the House of Commons as Conservative M.P. for Dulwich, and in 1892 he was knighted He was made a baronet in 1897 and died Nov 24 1903 well known racehorse owner, his stables at Childwickbury were famous He rebuilt University College Hospital, near Tottenham Court Road

Mar Earl of Scottish title held by the family of Erskine Mar is a district in Aberdeenshire and in early times was under one of the 7 Scottish earls, but the line became extinct in the 15th century In 1565 the title was given to John Erskine but his descendant lost his lands and titles for siding with the Pretender in 1715 In 1824 the earldom was revived for a member of the Erskine family, who in 1835, became also Earl of Kellie In 1866 he died and there was a long dispute about the title It was given in 1876 to the Earl of Kellie and its holder is now known as the Earl of Mar and Kellie His eldest son is called Lord Erskine

In 1885 the title of Earl of Mar was given to J F Goodeve Erskine, and his descendant still holds it Owing to this unusual procedure there are two Earls of Mar The one hold by the family of Goodeve Erskine was given pre-cedence from 1405, the earl's eldest son is called Lord Garioch (pron Gherry)

Marabou Central African stork (Leptop-tilus) Its undertail coverts were formerly collected for millinery and scarf trimmings Marabou feathers come also from the allied Indian adjutant bird

Maracaibo City and seaport of Vene strait that leads from Lake Maracaibo to the Gulf of Maracaibo part of the Carlbbean Sea It has a small harbour and is the chief scaport in the republic, oil and sugar figuring among the exports Pop 74,800

Marachesti Town of Rumania from In Moldavia, 12 m from Town of Rumania It is Focsani, on the River Screth and is an important railway junction It has two broadcasting stations (76 and 48 95 M)

stations (76 and 48 95 M)
In Aug, 1916 an army of Austrians and
Germans, then invading Rumania, was met
by a defending army near this town A battle
began on Aug 13 and continued for some
days A succession of German attacks continued until the 19th when the battle ccased
without decisive result, but the Germans did
not advance further into the country

Maraschino Liqueur made from a Yugoslavia and Italy From this the liqueur is distilled and sugar or honey is added to it

Warat Jean Paul French revolutionary leader Born at Boudry, Neu châtel he studied and practised medicine, optics and electricity in France, Holland and England, In 1773 he published a Philosophical Essay on Man, and in 1789 started a political paper, L'Am du Peuple, which attacked those in authority He was forced to leave France, but returned in 1792 and was elected to the Assembly He then engaged in a bitter struggle with the Girondins, which led to his assassination in his bath by Charlotte Corday, July 13, 1793

Maratha Hindu people inhabiting ex-tensive tracts in W and and Central India Formerly containing mediaeval Maharashtra kingdom They number about 6,500 000 the complex of castes and tribes speaking the Marathi dialects about 2. 361,000 Besides Maratha Brahmans of pure descent, there are more or less Aryanised aboriginals descended from non Brahman camp followers in the Maratha armies British conflicts with the 17th 18th century Maratha confederacy and early 19th century campaigns constituted the Maratha wars, which increased the area of the British Empire in India Maratha units gained distinction during the Great War, especially in Mesopotamia

Marathon Plain of Greece, 22 m from Athens It is famous for the battle fought here in 400 B c The Persians had invaded Greece and were encamped on a plain near the sea There they were attached by a Greek army, chiefly composed of Athenians, directed by Miltiades The Greek victory, after an initial repulse, was complete

Marathon Race Name given to a long distance foot race, so named because after the Battle of Marathon a certain Pholdipplies ran the 22 m to Athens to announce the victory of the Greeks On his arrival he fell dead The chief Marathon race is at the Olympic Games the course being 26 m. 385 yds, covered in 1929 in the record time of 2 hours 30 minutes 57 6 seconds There is a Marathon race for coaches

Marazion Market town and seaport of Cornwall also called Market

causeway from here to St Michael's Mount, and in the Middle Ages the town was much visited by pilgrims

Marble Term loosely applied to any pollsh Strictly it means a hard limestone used for ornamental purposes, and more especially those of a crystalline and granular character The colour varies from white to black, and in some, such as the Devon and Derbyshire marbles, the markings are due to their fossil contents Statuary marble is quarried at Carrara, Italy, onvx marble in Algeria, green serpentinous marbles in Ireland, Italy and Greece Italy and Greece

Marble Arch Gateway near the N entrance to Hyde Park A copy of a Roman arch it was designed by George Nash in 1828 as an entrance to Buckingham Palace In 1851 it was removed to its present site In 1930 31 new buildings made great changes near the Arch, which gives its name to a station on the Central London Tube Rlv

March Market town and urban district of Cambridgeshire, 30 m from Cambridge on the LNE Rly Pop (1931)

March Earl of Scottish title now borne by the eldest son of the Duke of Richmond and Gordon The first earls were so named because they were the guardians, or wardens, of the march districts It was held by the family of Dunbar until forfeited in 1434 In 1675 it was given to the Duke of Lennox and it has since been held by his descendants From 1697 to 1810 there was another earldom of March, its first, helder heing William Douglas.

From 1697 to 1810 there was another earldom of March, its first holder being William Douglas His descendant, William, 3rd Earl of March, was made Duke of Queensberry (qv)

The English title of Earl of March was held by the family of Mortimer from 1328 to 1425
Later, Richard, Duke of York, the father of Edward IV, was Earl of March

March Earl of English soldier Roger Mortimer, born about 1287, was the eldest son of Edmund Mortimer. The holder the eldest son of Edmund Mortimer The holder of great estates on the borders of Wales, he was prominent in the time of Edward II He was made Governor of Ireland and was one of the group that followed Thomas, Earl of Lancaster, in his rebellion against the king He was put in prison, but in 1324 he escaped and went to France There he became the lover of Isabella, the wife of Edward II, and in 1327 the pair returned to England, took the king prisoner and had him put to death Mortimer then helped the queen to rule in the name of her son, Edward III, for three years In 1330 the king took him prisoner at Nottingham and he was hanged at Tyburn, Nov 29, 1330

Marchand Jenn Baptiste See Fashoda

Warches Word used for a borderland, as those between England and Scotland and between England and Wales In the Middle Ages there was continuous warfare in the former district, the governors of which were called Wardens of the Marches The march district between England and Wales was governed by Lords Marchess, and castles was governed by Lords Marchers, and eastles was governed by Lords Marchers, and eastles were built to defend it, among them Ludlow and Wigmore The authority of the Lords Marchers was taken away in 1536

Jow It stands on Mounts Bay, 4 m from Penzance, on the GW Rly, and the chief industry is fishing Until 1835 Marazion had its own mayor and corporation There is a causeway from here to St Michael's Mount, and in the Middle Ages the town was much visited by pilgrims

Marble Term loosely applied to any pollsh Strictly it means a hard limestone used for ornamental purposes, and more especially those of a crystalline and granular character The colour varies from white to black, and in some, such as the Devon and transmission

He was awarded the Nobel Prize for Physics He was awarded the Nobel Prize for Physics in 1909, made a Senator in 1915 and a Marquess in 1929 He served with the Italian forces during the Great War and after Mussolini became virtual dictator in Italy Marconi supported his cause, offering his scientific services in the conduct of the Abyssinan war

Marcus Aurelius Roman em-Stole philosopher Born in Rome April 26, Ap 121, the son of Annius Verus, he became co-emperor in 161 with his adopted brother, Lucius Verus He re-established discipline, ameliorated the conditions of slaves, reformed the civil laws and kept back the barbarians, who menaced the empire in the north and east

His Meditations, written mostly in camp, and in the midst of public business, show him to have been a man who, at a time of universal corruption and self-indulgence was self-denying and just He died March 17, 180

Mardi Gras Shrove Tuesday, or Fat
Tuesday, so-called be-

ruesday, so-called because of the fat or paraded through the streets in France, the day before Ash Wednesday It is celebrated in Catholic countries with feasting, processions and merrymaking, and is the last day of a carnival before Lent begins

Marduk God of Babylon, where he had a splendid temple. He became god of the sun and of war and healing, and took the attributes of the old Sumerian deities

Maree Loch in Ross and Cromarty
About 20 m from Dingwall, it is
13 m long and covers about 11 sq m It is

13 m long and covers about 11 sq m It is almost surrounded by mountains and some of the finest scenery in Scotland

Marengo room Alessandria Here on June 14, 1800, Napoleon gained one of his earliest and greatest victories With 40,000 men he crossed the Alps into Italy and, at Marengo, came face to face with an Austrian army much larger than his own The French were retiring when Napoleon arrived. He ordered an advance, brought up all his reserves and the Austrians were quickly routed and the Austrians were quickly routed

Mare's Tail (Hippuris vulgaris)
Water plant of the
natural order Haloragaceae It has a creeping
root stock and the whorls of narrow leaves
encircle the joints of the slender stems. The
small green flowers are stalkless and have red
anthers. It is found in shallow pools and lakes

Margam District of the borough of Port Talbot, Glamorganshire It is a coal mining centre The chief building is the restored church, once a Cistercian abbey, including the chartest and the chart of which some ruins, including the chapter house, remain Near is Margam Abbey, long the seat of the Mansel and Talbot families The

estate was sold in 1921
Margaret
Saint and Queen of Scotland
A granddaughter of Edmand A granddaughter of Edmund

Ironside, she was born in Hungary about 1045, but came to England with her brother Edgar Atheling The King of Scotland offered them a home, and in 1007 Margarot was married at Dunfermline to Malcolm III In 1003 her husband was killed, and the same year the queen died leaving three sons, Edgar, Alexander I and David I, who all became kings In 1250 she was canonised

Margaret Queen of Scotland, called the Mold of Norway She was the daughter of Eric, King of Norway, and was the daughter of Eric, Ling of Roway, and through her mother, a granddaughter of Alexander III, King of Scotland She was born in 1283, and in 1284 was declared hoir to the throne of Scotland In 1290 Alexander died and she became, in name, queen She crossed over from Norway, but died on arriving at the Orkneys in Sept, 1290

Margaret Queen of Henry VI A daughter of Reno, Duke of Lorraine, and known as Margaret of Anjou, she was born March 23, 1430 In 1445 she was married to Henry VI at Titchfield Abbey in Hampshire She was remarkable for the during the Wars of the Roses, although she was partly responsible for his difficulties with his subjects from 1463 to 1470 she was in France dependent upon the benevolence of her kinsfolk. She returned to England in 1471 with her only son Edward, but the defeat of the Lancastrians at Tewkesbury put an end to her hopes of recovering the throne She was then made prisoner, and was not released until 1476 Her concluding years were passed in France She died at Angers, April 15, 1482

Margarine Name given to a butter substitute It was made originally from beef fat digested in a weak alkaline solution with pepsin, but afterwards improved by churning the fat with milk In its modern form margarine is made from animal or vegetable fats Usually hydrogenated or hardened coconut fat, or palm kernel oil is used with liquid cotton seed or parachis oils and churned with sourced milk arachis oils, and churned with soured milk Like butter, margarine must not contain more than 16 per cent of water and no preservatives except salt There are heavy penalties for adulterating margarine or selling it without it being clearly labelled

Margarita Island in the Caribbean Sca It is separated by the Strait of Margarita from the mainland of Venezuela, to which country it belongs Asuncion is the capital The area is about 400 sq m off its

shores are pearl fisheries

Margate

Coast, near the North Foreland, 74 m from
London, on the S Rly It has attractions of every kind, including winter gardens, pier and golf links The bathing and sands are good The eastern part is known as Cliftonville In 1931 a new general hospital was opened. Pop (1931) 31,312

Margay Bravilian name of a small tigor cat helis tigorna It ranges from Mexico to Paraguay A forest dweller 24 in long, with 12 in tail, its harsh grizzly grey fur is variously spotted and ringed, the checks have three black stripes It prevs on small mammals and birds, and is sometimes tamed for destroying rats in houses

was given at first to those who looked after the march or border districts and later became the title of certain rulers, eg, the Margraves of Brandenburg and Baden

Name loosely applied to Marguerite the composite flowers of various hardy perennial horbs of the type of the ox-eyo daisy, Chrysanthemum leucanthemum A shrubby form from Tenerille, C fruiescens, and a yellow variant, are favourite garden marguerites. The half hardy blue marguerite, Agathaea coelestis, is quite distinct. See DAISY

## Marguerite of Valois See Valois

Maria Theresa Empress of the Holy Roman Empire A daughter of Charles VI, she was born in Vienna, May 13, 1717 As her father had no sons, he named her as his successor on the imperial throne, and ruler of Austria and persuaded the Powers to agree to this When he died, however, a Bayarian prince was elected emperor, and Frederick the Great invaded Silesia, which he claimed by virtue of an old treaty The result was a European war which lasted until 1748, was a European war which lasted until 1148, and then, after a period of peace, came the Seven Years' War, 1756 63 Maria Theresa lost Silesia, but in 1748 she secured the election of her husband, Francis Duke of Lorraine, whom she had married in 1736 as emperor. On his doath, her son, Joseph II, was elected, but Mori Theresa sprained the seal when with but Maria Theresa remained the real ruler until her death Nov 29, 1780 Her large family included the Emperor Leopold II and Marie Antoinette

Another Maria Theresa, also an Austrian

princess, was the wife of Louis XIV

Marie Antoinette Queen of Louis A daughter of the Empress Maria Theresa and the Emperor Francis I, she was born in Vienna, Nov 2, 1755 in May, 1770, she married the dauphin, who in 1774 became King of France She soon became unpopular, and was regarded as responsible for much of the misery in the land and as the evil genius of her husband Although by no stretch of imagination could the terrible condition of France before the Revolution be charged against the queen, her conduct was foolish, or worse, and she seems to have possessed neither shillty nor took. Her relationship with neither ability nor tact Her relationship with Austria was another cause of mistrust, especially when the Revolution began In 1792, with Louis she was arrested Attempts to release her failed At her trial in Oct, 1793, she defended herself with dignity and spirit, but sentence of death was passed Oct 16, 1793, and on the same day she was guillotined See Louis XVI

Marie de Wedici Queen of France, and wife of Henry IV She was born at Florence in 1573 and married Henry in 1600. After the murder of her husband in 1610 ten years after their marriage, she was made Regent for Louis XIII She was greatly influenced by the Italian Concini and his wife After Concini's murder in 1617 she was at war with her son Louis XIII from 1617 to 1620. In 1630 Richelleu exiled her to Compièrne, whence she escapad to Brussels. to Complegne, whence she escaped to Brussels. She is said to have died in poverty at Cologne, July 3 1642

Marie Louise Empress of the French A daughter Margrave German title now extinct of the Emperor Francis I she was born Dec 12 1791 In 1810 she became the second or march, and was equivalent to marquess It wife of Napoleon. In 1814 she returned to Austria, but the rest of her life was passed in Italy where Parma and other territories were given to her She had a son, the Duke of Reichstadt, by Napoleon and several children by her lover, Count von Neipperg, whom she married in 1822 She died in Vienna, Dec 18, 1847

Marienbad Spa in Crechoslovakia. Attractively situated 2090 ft. high among pine woods, it became popular in the 19th century owing to the curative properties of its mineral springs for gout and diabetes The old abbey of Tepla nearby originally owned the springs The buildings are modern Pop, about 7000

Marigold Annual composite herb with orange or lemon coloured flowers The common pot-marigold is Calendula officinalis, from 8 Europe an allied Cape marigold, white rayed with purple disk, now called Dimorphotheca, yields also hybridised black-eyed orange sorts Mexican species of Tagetes furnish so called African and French marigolds, double flowered sort varieties occur The corn marigold is Chrysanthemum segetum See Marsh Marigold

Marine Soldier who serves on board ship Marines were first raised in England in 1664, but the Royal Marines in its present form dates from 1755 when the Admiralty took over the force It has a long record of service, and its motto is per mare per terram From 1859 to 1923 it was divided into two branches, the R. Marine Artillery and the R. Marine Light Infantry The men are known popularly as the jollies, and officers and men wear white helmets They are organised in three divisions, Chatham, Portsmouth and Plymouth, and have a dopot for recruits at Deal The Royal Marine Police Force dates from 1922

Marine Ministry of Department of State Some countries, eg. Canada and France, call the department that is responsible for the navy by this name It is the equivalent of the British Admiralty, and like it its head is a politician

Mariners' Compass Instrument for directing the course of a vessel It consists of a case containing a circular card or dial fixed upon a magnetised steel needle. The dial is marked out into 360 degrees, and the four cardinal points, the north coinciding with the north point of the needle. Each quadrant is divided further into eight points north north east, etc. The compass is contained in a case or binnecle and is placed usually on the highest part of the deck.

Mariolatry Term deprecatory of the Roman Catholic doctrine and practice concerning the Virgin Marv Apologists claim that while latrera, worship, is due to God alone, the Virgin is entitled to Imperatula, a lesser form of veneration invoking her aid in human intercessions. Hence the repetition of the Are Maria, with or without the rosary, and the veneration of images and pictures. The doctrine, abandoned by the Protestant Reformation, is reprobated by the 22nd Article of Religion of the Church of Ingland

Marionette Miniature figure of wood, cardboard, leather or other materials manipulated on a mimic stage by wires or strings Puppets with movable limbs were used in ancient Egypt, Greece and Rome In 16th-18th century Europe, especially France

and Italy, they were employed to depict Biblical stories and other incidents of dramatic interest, and survive in Punch and Judy

Maris Jacob Dutch painter Born at the Haguo in 1837, the eldest of three artist brothers, he is known mainly as a painter of landscapes, in which the subject is subordinate to the effect He painted "Landscape near Dordrecht," "Seaweed Carts," and "Scheveningen." He died in 1899 The work of his brother Matthew (1839 1917) has a touch of mediaevalism "Bride of the Church," "Four Mills," and "Girl Feeding Chickens" are among his best works William (1844-1910) lived mainly in London His work is modern in treatment "Cows Beside a Ditch" is an example

Marists Roman Catholic congregation of priests and laity Its members conduct educational, sick-nursing and missionary enterprises Founded at Belley, France, in 1816, the Marist fathers and associated lay brothers and lay sisters, maintain a novitiate at Paignton, Devon, and several missions in New Zealand, Fiji and other Pacific islands

Marius Gaius Roman soldier and statesman Born in 157 Bc, he gained his early experience of war in Africa against the Carthaginians In 119 he was chosen tribune and in 107 consul as consul he ended the war against Numidia by capturing its king, Jugurtha He next crushed the hordes of barbarians who had invaded the Roman realm During this period he was elected consul four times in succession and at the end was hailed

as the third founder of the city
Marius was again chosen consul in 100 Between 100 and 85, although not consul, he did good work in putting down rebellions When Sulla was preferred to Marius as the commander in the war against Mithridates, a furious quarrel broke out between them and Marius only saved his life by escaping to Africa Soon, however, he returned to Rome and with Cinna captured the city He then ordered a massacre of his enemies, and for five days, it is said, 4000 slaves revelled in the task of slaughter A few weeks after being chosen consul for the seventh time, Marius died (85 BC)

Warjoram Genus of perennial aromatic herbs or undershrubs (Organum) They are indigenous to N temperate regions. Wild marjoram, 1 to 3 ft. high, is purple-flowered Sweet or knotted and pot marjoram are two cultivated culinary forms whose leaves are used for stuffing and soupflavouring Hop marjoram or dittany of Crete (O dictamnus), introduced into Tudor England, preferably grows under glass.

Mark German unit of currency Divided into 100 pfennig and coined in silver from 1876 it was worth, in English currency, just under 1s After the Great War its value depreciated, and in 1924 a new mark, called the Reichsmark, was introduced and given the value the mark had before the war It is coined in silver and is issued in notes for ten marks, 20 marks, and other denominations

There have been other coins of this name The Anglo-Saxons had a mark and there was a Scottish mark worth 13s 4d In the Middle Ages the mark was also a unit of weight

Mark One of the four evangelists He was a Jew, probably from Cyprus, and the son of a Christian named Mary Known as John Mark, he accepted Christianity and went on a missionary journey with S Paul, and

his own cousin, Barnabas He left them at Perga and later was in Rome with S Peter reign and later was in Rome with Sireter who, it is believed, supplied him with much of the information contained in his gospol. He is said to have died in Egypt. His day is April 25 He is patron saint of Venice (q v)

Mark The Gospel of Second Book Second New Testament As early as A D The Gospel of Second book of the 130 Papias recorded that Mark, having become Peter's interpreter, wrote down all he remembered. This apparently occurred at Rome The work is a brief, rugged narrative, a tran script of life, dealing with the acts rather than the savings of our Lord It was utilised by Matthew and Luke as the framework for the other two synoptic gospels The last 12 verses are usually considered an addition by another

Mark Antony Roman statesman, Antonius Born about 83 g c he was a kinsman of Julius Caesar with whom he was closely associated He helped Caesar to defeat Pompey at Pharsalus in 48 BC, and the two were consuls in 44 After Caesars murder, Antony was the leader of his followers, and with Octavian, the future emperor, and Lepidus formed the triumvirate to restore order They acted with great thoroughness, and no little injustice and cruelty Antony and Octavian destroyed the army of Brutus and Cassius at Philippi, and divided the Roman realm Philippi, and between them Antony, as ruler of the eastern portion, went to Egypt, where he became the lover of Cleopatra More than once he quarrelled with Octavian, and the final struggle came in 31 BC The naval fleets met off Actium Antony's ships were scattered or destroyed, but with Cleopatra he managed to get back to Egypt. There in 30 B C he committed suicide Antony is known largely through the character drawn by Shakespeare in Julius Caesar and Antony and Cleopatra

Midny and Cleopatra

Market Place where goods are sold In
olden times the right to hold
a market was conferred by a king or lord
For the privilege money was paid, and market
rights became very valuable Until recently
the Duke of Norfolk owned the markets in
Sheffield and the Duke of Bedford owned
Covent Garden market in London To day nearly all the markets are owned and controlled by the city or borough councils The great by the city or borough councils. The great London markets are controlled by the corpora

tion of the city or the London County Council Many towns, Nottingham for instance, had a large open square or market place in which the market was held, traders erecting their stalls and displaying their wares there Some of them remain Cattle markets are still held in uncovered places but these are now usually distinct from ordinary markets

Market Bosworth Village of Leicestershire It is 12 m from Leicester, on the LMS Rly There is an old grammar school, and the town has an agricultural trade Near is the field on which the battle was fought in which Richard III was killed, Aug 22, 1485 Pop 886

Market Deeping Village of Lincoln Welland, 8 m from Peterborough, in the fen district. There is a station on the L NE Rly at Deeping St James, 3 m away Pop 888

Market Drayton Market town of Shropshire It is on the River Tern, 18 m from Shrewsbury, on the GW Rly The parish church is Gothic.

At the grammar school Robert Clive was edu-cated There is a trade in agricultural produce Market Garden Land on which fruit grown for sale It is defined by law as "a holding wholly or partially cultivated for growing produce for market." Market gardens are found in nearly all parts of the country, but especially around Worthing the valley of the Lea in Hertfordshire, and areas in Aliddlesex, Kent, Derbyshire Worcestershire, and Cambridgeshire In Scotland there is a market gardening district in Lanarkshire Fruit and vegetables are grown under glass for the early market, particularly in the Channel Islands Market producers are legally entitled to compensation from their landlords for improvements made on their holdings

Of late years more attention has been paid to the grading and packing of market garden produce Under the national mark scheme a system of grading has been introduced and packing stations for fruit have been established at Cottenham in Cambridge and in Kent.

Market Harborough Urban dismarket town of Leicestershire It stands on the Welland, 16 m from Leicester and 81 from London, and is served by the L M S Rly and a canal There is a beautiful old church with a broach spire and an old grammar school, the latter a quaint building standing on wooden pillars Boots and tyres are made and the preparation of foodstuffs is a leading industry Pop (1931) 9312

Market Rasen Urban district and market town of Lincolnshire It is 13 m from Lincoln, on the little River Rasen, and is reached by the L N E Rly Pop (1931) 2048

Market Weighton Market town (ER) It is 221 m from York and 192 from London by the LNE Rly A canel goes from here to the Humber The town has a trade in agricultural produce

Markinch Burgh of Fifeshire A coal mining centre, it is 33 m from Edinburgh, and is served by the L N E Rly There are paper mills Pop (1931) 1988

Mark Lane Street in London It runs from Great Tower Street to Fenchurch Street. It contains the new and the old corn exchange

Marl Name given to many clays which contain varying proportions of calculum carbonate. They are used as a dressing for soils deficient in lime. Many so called marls of the Old Red Sandstone, Permian and Triassic systems are devoid of calcium car-bonate, being simply friable clays containing more or less sand

Marlborough Borough of Wiltshire 76 m from London, on the GW Rly There are two old shumber, on the GW Rly There are two old churches, and some ancient inns and houses The Castle Inn is now part of the college There is an agricultural trade Pop college Th (1931) 3492

Marlborough College is on the edge of the own. Founded in 1843 for the sons of the town. clergy it was thrown open to sons of laymen in 1853 It stands in extensive grounds Its fine range of buildings includes a chapel and a war memorial It has accommodation for about 700 boys The hills near Marlborough are known as

Marlborough Duke of English title held by the family of Churchill In 1626 John Ley was made Earl of Marlborough, and the title was held by three of Mariborough, and the title was nead by three of his descendants. In 1689 John Churchill was made earl, and in 1702 duke. In 1722 his title passed to his daughter, Henrietta, Countess of Godolphin, and on her death to Charles Spencer, 5th Earl of Sunderland, a son of the duke's other daughter

John Spencer Churchill, the 7th duke, was Lord Lieutenant of Ireland, 1876-80 In 1892 his grandson, Charles Spencer Churchill, born Nor 13, 1871, became the 9th duke He was under secretary for the colonies in 1903-05 His eldest son became 10th duke on his father's death in June, 1934 His eldest son is called the Marquess of Blandford, and his seat is Blenheim,

near Oxford

Marlborough of English soldier Born at Ashe, Devon, June 24, 1650, and educated at S Paul's School, London, he became a page at court and then entered the army He first served James II, but after the revolution of 1688 he joined William of Orange, who gave him an earldom and appointed him commander in chief In 1702 he was created duke and given the command of the English forces in the war of the Spanish Succession The greatest soldier of his age, Marlborough saved Austria from invasion by the French by his victory at Blenheim in 1704, and foiled Louis XIV's schemes for the invasion of Holland by the victories of Ramillies (1706), Oudenarde (1708) and Malplaquet (1706), Oudenarde (1708) and Malplaquet (1709) His wealth and unscrupulousness gained him many enemies who seized the opportunity afforded by the failure of his wife's influence with Queen Anne to obtain his recall in 1711 He was accused of peopletic and disminster. recall in 1711 He was accused of peculation, and dismissed from his offices Reinstated for a time by George I, whose accession he did much to secure, he died on June 16, 1722

Marlborough House Royal residence in London at the western end of Pall Mall It was bollt by Wren for the 1st Duke of Marlborough in 1709 10, became a royal residence in 1817, and later was the home of two Princes of Wales, afterwards Edward VII and George V From 1910 until her death it was the residence of Queen Alexandra In 1932 a sculptured monument to the late Queen-Mother was erected here and was unveiled by King George Marlinspike Iron instrument used on in length, it is employed for unfastening knots and loosening rope strands when splicing

Marlow Urban district of Buckinghamfrom London, on the G W Rly The grammar school dates from the 17th century A suspension bridge crosses the river Marlow has breweries and other industries and is much visited for its boating. It is called Great Marlow to distinguish it from Little Marlow, a villago 2 m away Pop (1931) 5087

Marlowe Christopher. English dramatist. Born at Canterbury in 1564, he was educated there and at Cambridge Having taken his degree he went to London

Having taken his degree he went to London where he associated with Shakespeare and other writers of the time. He was killed near Greenwich during a quarrel in 1593, just when he had been summoned before the privy council

the Marlborough Downs and are famous for to answer a charge of heresy. He was buried their sheep.

In the churchyard at Deptford, and in 1891 a Marthorough Duke of English title memorial to him was unveiled at Canterbury.

Menorial to him was unveiled at Canterbury
Marlowe wrote several plays of outstanding
merit, notably Tamburlaine the Great, The
Tragical History of Doctor Fauslus, The Jew of
Malla and Edward II He also left translations
from Musaeus, Ovid, and Lucan and wrote
some excellent lyries His unfinished play, Dido, Queen of Carthage, was finished by Thomas Nashe

Marmalade Preserve originally made of quinces, now usually of Seville oranges The fruit is cut up, pips and of Seville oranges The Iruit is cut up, pips and inner pith are removed, sugar is added, and the whole is then boiled Lemon and apple marmalade are varieties of jam The Central American marmalade tree, Lucuma mammosa, bears plum shaped fruit whose quince like pulp is called natural marmalade. The story trees that marmalade are the story trees that marmalade are the story trees that marmalade. goes that marmalade was first made for Mary, Queen of Scots, who referred to it as a pleasing food for ma malade The preserve is largely made at Dundee and Paisley

Marmont Auguste Frédéric Louis Viesse de French soldier Born July 20, 1774, at Châtillon sur Seine, he be came Napoleon's aide de-camp and ably supcame Napoleon's and de-camp and any sup-ported him in many campaigns. He was made Duke of Regusa in 1808 and Marshal of France in 1809, and in 1811 he succeeded Masséna in the chief command in the Iberian Peninsula After the capture of Paris by the Allies in 1814, he attached himself to the Bourbons, was given many honours, and went into evile with Charles X, dying in Venice March 2, 1852 He is remembered for his Espert des Institutions Militaires, 1845, and nine volumes of Mémoirs, published posthumously

Marmora Sea of Inland sea between Europe and Asia Minor The Dardanelles lead from it to the Aegean Sea and the Bosphorus to the Black Sea It is 175 m long and covers 4500 sq m Its waters are Turkish and its old name was Propontis In the sea are a number of islands One, called Marmara, is noted for its marble

Marmoset Smallest of the monkeys It is about the size of a squirrel, with a long tail and thick fur. There are two genera, Midas and Hapalc, inhabiting tropical America Easily tamed, they make attractive pets The name "ouistiti" is applied to some from the whistling noise they make when disturbed

Marmot (arctomys) Genus of rabbit-like rodents inhabiting N temperate regions They are stout, thick set, burrowing vegetable-feeders, generally hiber-nating Besides the Alpine marmot, 15 to 25 in long, with short, bushy tail, inhabiting Pyrenees, Alps and Carpathians, the bohac, 15 in long, ranges from Germany's eastern frontier into Siberia, other species occur in frontier into Siberia, other species occur in the Himalayas and Central Asia N American marmots include the woodchuck, 14½ in long, with 7 in tail, ranging from Manitoba to Carolina, and often a farmer's pest

Marne Department of NE France It has an area of 3167 sq m and a population of 397,773 The western part, near Reims, is hilly, with chalky cliffs, and here and at Learnay and Châlons are the famous vine-

at Epernay and Châlons are the famous vine-yards of Champagne Oats, rye, barley and potatoes are grown Reims carries on an old woollen industry, besides the manufacture of casks and cases for wines, and also glass and metal works. The chief towns are Chalons, the capital, Reims, Epernay and Vitry.

The River Marne runs through the department. It forms a canal from Paris to Dizy and has canal connections with the Saone, the Rhône and the Aisne Communication between the departments is largely by means of these canals

Marne Battles of the Declaive battles of the Great War The first battle, Sept 6 9, 1914 effectively checked the great German advance The German right wing, under Von Kluck, having crossed the Marne and exposed their right fiant, Joffre launched an attack under Maunoury, which made Kluck turn westwards, leaving a gap between his left and Büllow's right The British attacked here, driving the Germans beyond the Grand and driving the Germans beyond the Grand and Petti Morin, and disorganising their front Kluck began to retire on Sept 9, exposing Bölow still more, and allowing Foch to attack The British crossed the Marne with the Germans in full retreat

The second Battle, July 15, 1918, marked the limit of Germany s last big offensive Pushing on to reach Paris, they crossed the Marne east of Rheims, making a salient in the Allied lines Foch sent a Franco American force against the west of this curve, which drove the Germans across the Marne and, after stubborn

fighting, defeated them at Seringes

Marochetti Carlo Italian soulptor Born in Turin in 1805 he studied art in Paris and there made his reputation In 1848 he settled in London and in 1866 was made an R.A. but he was again in France when he died June 4, 1868 His work includes a relief on the Arc de Triomphe in Paris, the statue of Richard I at West minster, the Inkerman memorial in St. Paul's extended I at a state of Richard I at West minster, the Inkerman memorial in St. Paul's cathedral, London, and a statue of Queen Victoria in Glasgow

Maronites Community of Syrian Christians Originating in Lebanon in the 4th or 7th century they have belonged to the Roman communion since 1445 See DRUSES

Maroon Twine bound pasteboard box of gunpowder with quick fire prim It simulates cannon firing During the Great War maroons gave warning of imminent

air raids

Urban district of Cheshire It Marple Urban district of Cheshire It is 12 m from Manchester, on the little River Goyt and is served by both rallway and canal. The ohiel industry is the manufacture of cotton goods Marple Hall, a Jacobean house, was once the seat of the families of Vernon and Bradshaw Pop (1931) 7390

Marquesas Group of 13 volcanic volcanic Archipelago, S Pacific They are under French protection Occupying 480 sq m the largest re Nukahita, 70 m round, and Hivaoa, 60 m. round, six are inhabited. The people are Polynesians The S or Mendaha group was discovered in 1595, the N or Washington group in 1791 France took formal possession in 1842 Pop 2283

Marquess Title in the British peerage ranking next below that of duke It is a form of the German margrave It was used in France in the form of marquis, and as marchese is still used in Italy In England the first marquess was created in 1385 The senior marquess is the Marquess of Win the senior marques is the introduces of win chester. The coronet bears four strawberry leaves and four pearls. A marquess is styled the most honourable." His younger sons and his daughters have the courtesy title.

lord or lady prefixed to the Christian name The wife of a marquess is a marchioness

Marquetry Form of flat surface inlay work of ornamental woods, ivory, bone, tortoiseshell, mother-of pear or metals used for decorating furniture, cabinets and small articles Early Italian marquetry con sisted of geometrical wood inlays, but in later Italian work pictorial designs became common In Holland and France in the 17th century, and in England in the 18th, some fine work was

Marquette Jacques French explorer Born at Laon in 1637, he became a Jesuit. In 1666 he was sent to Canada on missionary work and for 7 years he worked among the Indians who lived around the Great Lakes In 1673 he went on a journey down the Mississippi which he was one of the first to explore He died May 18, 1675 and left a Journal

Marrakesh City of Morocco, sometimes called Morocco It is 250 m from Fez and 90 m from the coast There are many mosques the most notable being the Kutubia. Leather goods and carpots are made and the city is an important trading centre Pop (1931) 193,582

Marriage Union between man and woman recognised by law or custom It arose at a very early stage in human society, as without something of the kind it was impossible to fix or enforce the responsibilities of parentage It was also necessary in the interests of the woman and for determining the ownership of property

Marriage may be monogamous or polygamous Among many primitive peoples polygamy was, and is, recognised But in Christendom monogamy was gradually established, and to day the laws of all Christian countries forbid day the laws of all Christian countries forbid polygamy Another form of early marriage was the group marriage, a union of men and women indiscriminately, but only within a certain circle Polyandry the union of one woman with two or more men, is also known to have existed in certain early societies

The outsoms which attend marriage are extremely old and varied Among many peoples there is a pretence that the vorman is continued.

there is a pretence that the woman is captured In other cases she is purchased and payment is made for hor to her father or other relative On the other hand in some cases money or property is given with her In almost all states of society her legal position is inferior to that of her husband, and in quite a number she is regarded merely as his property From this idea even the most advanced communities have

only broken away in recent years LAWS AND REGULATIONS Every community has its own marriage laws In England no one under 16 years of age can be legally married, and before the age of 21 the consent of the parents must be obtained Marriages between near relatives are forbidden There is a table of prohibited degrees drawn up by the church but the secular law now allows marriage between a man and his deceased wife a sister, between a man and his deceased wite a sister, and other unions between persons of similar degrees or relationship. These were legalised by acts passed in 1907, 1921 and 1931 but such unions are still disliked by the church. In England marriages can be celebrated either in the registrar's office or in church, either by certificate licence, or banns. Of civil marriages the simplest form is by certificate.

marriages the simplest form is by certificate. The parties must give personal notice to the registrar of the district in which they have

lived for at least 7 days. If they have lived in different registration districts notice must be given in each. In the case of marriage by licence, only one of the parties need give notice, the state of the district for but he or she must have lived in the district for at least 15 days, the other party must reside in England or Wales at the time In the case of marriage by certificate, the registrar will issue the certificate 21 days after the notice has been given, and the marriage can take place within three months In the case of a marriage by licence he will issue it on the following day, and the marriage can take place within six months A certificate costs a few shillings, but a licence costs about £2 10s

Religious marriages are either by banns or by licences If the former, the names must be read out on three consecutive Sundays in a church of the parish in which the parties reside or in which they habitually worship If they live in different parishes the names must be read in both The clergyman can then marry them at any time If a licence is pre-ferred to banns this can be obtained from a surregate of any archbishop or bishop

Another method is to secure a special licence from the office of the Archbishop of Canter-bury at 23 Knightrider St., London, E.C. This costs about £25 and allows the parties to be married at any time and at any place without

previous residence therein

SCOTS LAW The law of Scotland on the subject differs a good deal from that of England No person can marry under the age of 16, but the requirement of English law that the consent of the parent is required to the marriage of any person under 21 has no place in the law of Scotland. No valid marriage can take place in Scotland unless one of the parties has his or her usual residence in Scotland, or has resided in Scotland for 21 days immediately preceding the marriage.

In Scotland a marriage may be either regular or irregular Both are fully binding, and only differ in the manner in which they are constituted A regular marriage must be cele brated by a minister of religion after the banns have been proclaimed or a proper notice of the marriage has been given, but it need not take place in a church An irregular marriage may be contracted in one of three ways (1) The parties may consent to marry one another, and this is sufficient to constitute the marriage

(2) If a woman has allowed a man to have intercourse with her on the faith of a promise previously made to marry her, a valid marriage

is constituted by the intercourse.

(3) The third method is by habit and repute In this the consent necessary for the marriage may be inferred from the fact that the parties have lived together as man and wife for some considerable time, and that the woman has occupied the position of a wife in the man's household and has been regarded as his wife by general repute

All regular marriages must, by law, be registered within three days Irregular marriages need not be registered, but the parties may have the marriage registered by applying jointly to the sheriff substitute at any time within three months of the marriage Fallure to register a marriage will not affect its validity

Marrow Soft tissue in the finterior of bones Red marrow, in spongy bones, contains delicate cells from which the marrow, comprising about 95 per cent of fat-cells fills the cavities of tubular bones. The so-called spinal marrow, occupying the cavity

running through the vertebrae, is the nervous system's central axis

Frederick English author Marryat Born at Westminster, July 10. 1792, he entered the navy and was on active service during the latter part of the war with France In 1830, having just begun to write novels, he retired from the service as a captain. He devoted some of his time to improving the system of signalling at sea, for which he was made an FRS He died at Langham, Norfolk, Aug 9, 1848

Captain Marryat's many books, in which he Captain Marryat's many books, in which he embodied his experiences of the sea, were, and still are among the most popular of boys' stories. The first was Frank Mildmay, and some of the best are Peter Simple, Jacob Faithful, Mr. Midshipman Easy, Masterman Ready and The Children of the New Forest His daughter, Florence Marryat (1838-99), wrote many novels and some books on emistralism.

spiritualism

First of the superior planets beyond Mars the earth Its distance from the sun is 141,384,000 m, its mean diameter 4230 m. or rather more than half that of the earth, and its year measures 687 solar days, with a day of 24 hrs 37 min 23 secs Mars has two small satellites discovered in 1877, one revolving round the planet in 7 hrs, the other in 30 hrs. Well-defined markings or "canals" were discovered by Schleparcilli in 1877 and these and other regional markings show seasonal characteristics. other regional markings show seasonal changes and suggest the presence of snow and vege-tation Some think that Mars is inhabited, as its climate could sustain life in some respects as we know it.

Mars Roman god of war and husbandry.
Although the Romans commonly identified him with the Greek Ares, he never the legendary father of Romalus, he named the legendary father of Romalus, he named the first month of the Roman year His first altar stood in the Campus Martius, used by Roman vouth for warlike exercises

Marsala Seaport of Sicily Situated at the island's westermost point, 19 m SSW of Trapani, it is the centre of a Situated at wine-producing region, and during the 19th century developed a large export trade in Marsala wine, a fortified white type with 20-25 per cent alcohol, vatted and blended like sherry The town, whose name is Saracenic, witnessed Garibaldi's landing, 1860 It occupies the site of the Carthaginian stronghold Lily-baeum, whose surrender to Rome, 241 BC, ended the First Punic War Pop 50,200

Marsden Market town and urban district of Yorkshire (WR) It is 7 m from Huddersfield and 196 from London by the LMS Rly Here are textile manufactures Pop (1931) 5720

National song of French republic of the Marseillaise was written by C J Rouget de Lisle in 1792 and was first sung by a body of men from Marseilles on antering Paris during the disturbances of that year

Marseilles City and chief scaport of France It stands on the Gulf of Lyons, 410 m by railway from Paris It has enormous docks which a canal connects with the Rhône. The buildings, mainly modern, include a magnificent cathedral The Hotel de Ville dates from the 17th century. The chief industry is shipping. It has a broadcasting station (315 M, 4.6 kW) Pop (1931) 800,881.

horses and at first the earl marshal was some To day in England he is one of the great officers of state

There is also a marshal of ceremonics

in the royal household

As a military title, marshal originated in France and was given to famous soldiers by Louis XIV Napoleon made great use of the dignity as a reward for services in the field It fell into disuse after 1871 but was revived in 1916 for those who had distinguished them selves in the Great War The English equivalent

selves in the Great War The English equivalent is field marshall Group of islands in the Pacific of the Carolines just north of the east of the Carolines just north of the equator Jalult is the capital They cover 160 sq m and produce copra The islands were taken by Germany in 1885 and since the Great War have been ruled by Japan under mandate from the Leaves of Notions 200 10 0000 the League of Nations Pop 10,000

Marshall-Hall Sir Edward English Brighton Oct. 29 1865 he was called to the bar in 1883 He appeared with unrivalled dis par in 1555 He appeared with unrivaled distinction in some of the leading criminal cases of his time Made a K C in 1898, he was Unionist M P for Southport, 1900 06 and East Toxteth, 1910 16 when he was appointed Recorder of Guildford Knighted in 1917 he died Feb 24, 1927 Hon E Marjoribanks wrote

Marshal of the Air Highest rank Royal Air Force It corresponds to admiral of the fleet in the navy, and field marshal in the army

Marshalsea Former prison in South London Buil Built originally in the 14th century, or earlier it was pulled down about 1780, rebuilt in 1811, closed in 1849 and finally demolished in 1887 Dickens's father was here for debt, and the novelist describes it in Little Dorrit

Marsh Mallow (Althaea officinalis)
Perennial herb of the mallow order, native in temperate regions Occurring on British maritime marshlands, it is a downy plant 2 to 3 ft high, with large thick, oval leaves and rose-coloured 1 to 2 in flowers The highly much aginous root furnishes guimanve lozenges and marsh mallow cream See Hollyhock

Marsh Warigold (Callha palustris) the buttercup order native in N temperate regions. Its fleshy, creeping rootstock bears large smooth kidney shaped leaves and showy 1 to 2 in flowers of golden petal like sepals Double flowered garden varieties exist.

Marston Moor District between Knares borough famous for the battle of 1644 Parliamentary army aided by the Scots, was besieging York Prince Rupert marched north Prince Rupert murcuo besleging York Prince Rupert Prince Fairfax and Cromwell and the Scots prepared to meet the Royalists on Marston Moor and were followed by Rupert and the force under hewcastle that had been freed from York The battle took place on the evening of July 2 Fairfax was routed but Cromwell's forces turned the scale. The Royalists, about 25,000 strong, were utterly beaten, leaving about 3000 dead on the field.

Marsupial Lowly order of the mam Coming next above

Marshal Title of honour It meant a the most primitive groups, it is distinguished man who had the care of by the young being born in an immature by the young being born in an immature condition and continuing their development in an abdominal pouch or marsuplum. The order includes the opossums and bandicoots, wombats kangaroos and phalangers

Martello Tower Circular fort er ected at intervals on the English coast and in the Channel Islands at the time of the threatened invasion by Napoleon They are about 40 ft in height with the entrance about 20 ft above the ground and were intended to accommodate a small garrison with cannon Originally a martell was an Italian bell tower for giving warning against pirates

Marten (Austea or Maries) Maline of various arboreal carnivorous mammals of the weasel family distributed in the N hemisphere The European pine marten 18 in long with 9 to 12 in tail, still lingers in Britain The white breasted beech (Mustela or Martes) marten is widely distributed in Central Europe and W Asia The largest of all, the American fisher marten, furriers call the Virginian pole cat.

Martha A sister of Lazarus and Mary at whose village home in Bethany, whose village nome in Bethany, near Jerusalem, Jesus was an honoured guest (Lk x Jn xi xii) Our Lord gently reproved the anxious spirit, in contrast with her sister's, in which she discharged her household obligations. She is habitually cited as the exemplar of the practical housewife

Wartial Roman epigrammatist. His full name was Marcus Valerius Martialis, and he was born in Spain about AD 43, but after 66 passed much of his life in Rome He died in Spain about 104 Martial is famous for the wit and polish of his unrivalled

epigrame

Martial Law Law administered by the military authorities in times of danger or disorder When it is pro claimed the civil law is superseded by the rule of the soldiers who have extensive powers of arresting and punishing offenders against the peace. For many years there has been no necessity to place Great Britain under martial law but in 1920 and 1921 parts of Ireland were under it It was proclaimed in Spain during the troubles of 1930 and 1931 and there have been other cases of its use in Europe since the Great War, for instance in Prussia in 1932

Martin Name of various perching birds of the swallow family Two, breeding in Britain, spend the northern winter breeding in Britain, spend the normer white in S Africa. The black and white house martin, Chelidon urbica, 51 in long, makes rough mud built, swallow like nests. The lighter hued sand martin, Colle riparia, 41 in long, forms nesting colonies in sandstone cliffs. Purple martins are American

French saint and bishop son of a Roman soldier, he was born about 316 and became a soldier 360 he founded a monastery near Politiers and won a great reputation by his plety and learning He was Bishop of Tours from 371 till his death in 400 His day is Nov 11

Martin Name of five Popes. Martin I was Pope from 649 to 654 He was then deprived of his office and sent into exile He died Sept. 16, 655 and was later regarded as a saint Martin II was Pope 882 and Martin III, 942 46 Martin IV, a Frenchman was Pope 1281 85, having previously played an important part in state

affairs in France Martin V. was Pope, 1417-31 He was elected to put an end to the great schism in the church at the Council of Constance He restored the power of the Papacy, and died in Rome, Feb 20, 1431

Martineau Harriet English writer of James Martineau, she was born in Norwich, June 12, 1802 In 1832 she published her popular Illustrations of Political Economy She also wrote a novel, Decebrool, Society in America and Eastern Life Her other works include A History of the

Therin Fears' Peacs, translations of Comte, and an autobiography An invalid for much of her life, an agnostic, and in politics a philosophic radical, she died June 27, 1876

Wartineau Amenber of a Huguenot and the property of the ways born in Norwich April 21, 1805

family, he was born in Norwich, April 21, 1805, and entered the Unitarian ministry In 1840 and entered the Unitarian ministry. In 1840 began his long connection with Manchester New College, London He was professor there from 1841 to 1869, and principal from 1869 to 1885 He was also minister of a chapel in Little Portland Street, London, 1860-73 He died in London, Jan 11, 1900

Martineau won fame as a preacher and taccher but expected the control of the control of

Martineau won fame as a preacher and teacher, but especially as a philosopher His most important book is The Seat of Authority

of Religion, 1890

MARTINEAU

Martin-Harvey Sir John English actor-manager He was born at Wyvenhoe in Essex in June 22, 1867 Educated at King's College School London and intended for a naval architect, he later studied for the stage and made his first appearance in 1881 at the Court Theatre He was with Henry Irving's company for 14 years In 1897 he began work under his own management, and was knighted in 1921

He has played in Shakespeare, The Only II ay (achieving remarkable success in the character part of Sydney Carton), The Corsican Brothers, Pelleas and Melisande, The Cigarette Maker's Romance, The King's Messenger, etc

Martini Friedrich inventor Austrian soldier and Born in Hungary in 1832, he became an officer in the Austrian army, served in the engineers, and later practised as a civil engineer in Switzerland He invented a rifle taken up by the British Government and called the Martini-Henry In this he applied a breech mechanism to the rifle of Henry Martini

who was also a poet, died in 1897

Martinique Island of the West Indies

Martinique Island of the West Indies

Dominica and Santa Lucia and belongs to

Franco Its area is 385 sq m A mountainous
and volcanic region, it yet contains much
fertile soil, whereon sugar, tobacco and coffee are grown Rum is produced and exported There are extensive forest areas Fort de France is the capital and chief scaport St Pierre, the old capital, was destroyed in 1902 by an earth-quake The island is under a governor, a privy council, and an elected council Pop 234,695

Martinmas Festival of S Martin It is on Nov 11, and was an important date in the Middle Ages On it fairs were held and oven killed for food during the winter It is still a quarter day in Scotland, and if a period of mild weather occurs about this time it is called St Martin's summer

Term denoting a witness, es pecially one who willingly Martyr willingly suffers death rather than surrender his religious faith The first Christian marty was the deacon Stephen (Acts vii ) Under the Roman

Empire many Christian confessors suffered persecutions and, if to the death, were remembered as saints and martyrs Saint Alban, said to have suffered death at Verulam during the Diocletian persecutions, AD 303, giving his name to St Albans, Herts, is honoured as Britain s protomartyr Martyrdoms occurred in the mediaeval church down to the 16th century Others have attended missionary enterprises in her then lands Both Roman Catholics and Protestants have their martyrs, the latter the subject of a once popular work, Fore's Book of Marlyrs

Fove's Book of Martyrs

Warvell Andrew English poet He was
born at Winestead, Yorkshire,
March 31, 1621, and educated at Hull and
Trinity College Cambridge He was a great
friend and colleague of Milton, whom he
helped in his blindness He died in London,
Aug. 16, 1678 His "Thoughts in a Garden"
gained for him the title of "The Garden Poet"
He is also remembered for his "Bermudas,"
"Ode to Cromwell," and the verses "To His
Coy Mistress" He wrote many satires in
verse, the popular nursery rhyme "Mary has a
Little Lamb," and some vigorous pamphlets

Marwick Head Promontory of Main-Orkney Islands Near here Earl Kitchener was drowned in the Hampshire in 1916, and a memorial tower has been erected on the head-

memorial tower has been erected on the head-land It was unveiled in 1925

Marx Heinrich Karl German economist
Born at Trien, May 5, 1818, he was
a Jow and was educated at the Universities
of Bonn and Berlin He became a journalist,
but his advanced views led to his expulsion
from Germany and then from Paris, where he
lived in 1843-44 He was again in Germany
in 1848, but after the failure of the rising of that in 1848, but after the failure of the rising of that year, he went to London There he lived until

in 1848, but after the failure of the rising of that year, he went to London There he lived until his death, March 14, 1883

Marx exercised an enormous influence on the Socialist and Communist movements, and his doctrines are still accepted by a large number of their adherents In 1847, at Brussels, he and Frederich Engols issued the mayifesto which states the aims of the Communists These views are more fully developed in his book, Capital, published in 1867 Shortly, his ideas are that all wealth is produced by labour and should go to labour and that, as this leaves nothing for the capitalist who can therefore never accept the system, the worker must prepare for a class war in which capitalism will be destroyed will be destroyed

Mary Mother of Jesus She was sister of Mary, wife of Cleophas, and cousin of Elizabeth, John the Baptist's mother Mary brought her twelve-year old son to Jerusalem for the Passover, attended the marriage feast in Cana, was committed by our Lord to John's care at the Crucifixion, and traditionally died at Jerusalem She is the Madonna of Christian art

Mary Queen of George V She was born at Kensington Palace, May 26, 1867, the only daughter of the Duke and Duchess of Teck Through her mother, a daughter of the Duke of Cambridge, she was descended from George III, and was thus a second cousin of her future busband She was named Victoria her future husband She was named Victoria Mary Augusta Louise Olga Pauline Claudine Agnes The Princess May, as she was called, was educated at home, White Lodge, Richmond Park, and passed some three years in Italy In 1891 she was betrothed to Albert Victor, Duke of Clarence He died early in He died early in

1893, they were married in London

In 1901 after long tours abroad, they became Prince and Princess of Wales and visited Australia In 1910 George became king and on June 22, 1911, they were crowned in West minster Abbey During the period of the war, and after, Queen Mary illed with great dignity, constant industry and unfalling courtes, the high position of first lady of the land Her high position of first lady of the land Her solicitude for the troops was notable During the King's illness in 1928 29 she acted as President of the Council of State and when George V died in Jan. 1936, her son, Edward VIII, commanded that she should continue to be styled Queen Mary Her youngest son, John died in 1919, and her other children are the Dukes of York Gloucester and Kent, and Naw Princess Royal Mary, Princess Royal

Mary I. Queen of England Daughter of Henry VIII and Catherine of Aragon, she was born at Greenwich, Feb 18, 1516, and carefully educated in the Roman Catholic faith She lived a retired life, chiefly

Catholic faith She lived a retired life, chiefly in Hertfordshire, until she was 37 In July, 1553 her half brother, Edward VI, died and Mary was proclaimed queen. In 1554 she married Philip II, king of Spain, but the union was unhappy The queen, who had no children, died Nov 17, 1558 Mary's short reign was marked by the restoration of the Roman Catholic religion in England, and the persecution of the Protestants

Mary II Queen of England A daughter of James, Duke of York, afterwards James II, and his first wife, Anne Hyde she was born in London, April 30 1062 In 1677 she married William, Prince of Orange, and for the next ten years lived in the Nother lands In 1688 William was invited to take the Datter theory and after James II had fled British throne, and after James II had fled he and his wife became joint rulers of Great Britain. Mary was responsible for managing the affairs of state during her husbands frequent absences. She died of smallpox, frequent absences She died of smallpox, Dec 28, 1694, and was burled in Westminster Abbey She had no children

Mary Princess of Great Britain. April 25, 1897, the third child and only daughter of King George and Queen Mary, her full name being Victoria Alexandra Alice Mary She was educated at home and went through a course of study in a children's hospital in London On Feb 28, 1922, the princess married Viscount Lascelles who in 1929 became Earl Viscount Lascelles who in 1929 became Earl of Harewood. They have two sons. The elder born Feb 7, 1923 is George Henry Hubert, Viscount Lascelles, and the younger, born Aug 21, 1924, Hon Gorald David Lascelles The princess has many social and philanthropic interests both in London and Yorkshire where is her country home One of these is the presidency of the Girl Guides Association In 1932 she was created Princess Royal

Mary Queen of Scots Born in 1542, daughter of James V of Scotland and Mary of Lorraine, Mary became Queen of Scots Mary of Lorraine, Mary became Queen of Scots when only a week old owing to the death of her father at the battle of Solway Moss. She became also Queen of France by her marriage to Francis II and was heiress to the English throne as next of kin to Elizabeth Tudor

1892, and in May, 1893 the princess was be | A staunch Catholic she was opposed to the trothed to George Duke of York On July 6, | Calvinistic Protestant movement which had made headway through the teaching of John Knox She married her cousin, Lord Darnley, who, jealous of her Italian secretary, Rizzio, had him murdered in the Queen's presence and was himself murdered soon afterwards Mary then married Lord Bothwell, which caused an insurrection among the nobles They im prisoned her in Loch Leven Castle, from which she escaped and fled to England

Elizabeth kept her imprisoned for nineteen years Her presence in England led to a series years Her presence in England led to a series of Catholic plots in her favour against Lirabeth In 1586 Mary was accused of complicity in Babington's plot, mainly on the evidence of the Casket Letters (qv) She was executed on a charge of high treason at Fotheringay on

Feb 8, 1587

Maryborough Market town of Leix Oueen's Queen's County), Irish Free State, also the county town It is 51 m from Dublin on the Gt 8 Rlys. There is a trade in agricultural produce town was named after Mary Tudor

Maryborough Town of Victoria, It is 118 m from Melbourne with which it is connected by railway Here are railway shops, and gold is mined in the neighbourhood Pop 5800

Maryborough Town and port of Queensland, Austra-lia. It is on the River Mary, 20 m from its mouth and 167 m north of Brisbane, on the railway line from Brisbane to Rockhampton It is the trading centre for a district, gold and coal are mined and sugar is grown Pop. (1931) 12000

Maryland State of the United States With a coastline on the Atlantic, it is bounded on the N by Pennsyl vania, on the E by Delaware, and on the S and W by Virginia. Chesapeake Bay divides it into W by Virginia. Chesapenae Da, trans, it is two parts Its land area is 9870 sq m., it is two parts Its land area is not the east Anna hilly in the west, but flat in the east. Anna polis is the capital, but Baltimore is the largest city. Wheat, maize and tobacco are grown mining and fishing are other industries. The state is governed by a general assembly of two houses it sends two senators and six repre sentatives to Congress. Maryland was founded in 1634 and named after Henrietta Maria. It was one of the 13 original states Pop (1930) 1,631,526

Marylebone Borough of the county tween Oxford Street and Hampstead, with tween Oxford Street and Hampstead with Paddington on the west. In it are the districts of St. John's Wood and most of Regent's Park, Cavendish and Portman Squares, Harley Street and Wimpole Street, as well as the railway stations of Marylebone and Baker Street. Here, too, are Lord's Cricket Ground, Bedford College, Queen's Hall and Madame Tussaud's The full name of the borough is St. Marylebone, or St Mary's on the brook, the brook being the Tyburn Much of the land forms the Portland estate, now the property of Lord Howard de Walden The buildings include a fine parish church. Pop (1931) include a fine parish church. Pop (1931) 97,620

father at the battle of Solway Moss She be came also Queen of Frence by her marriage to Frence SI and was helress to the English throne as next of kin to Elizabeth Tudor She greatly impressed the French court by her galety and beauty On the death of her her galety and beauty On the death of her her galety and beauty on the death of her her galety and beauty On the death of her her galety and beauty On the death of her her galety and beauty On the death of her her galety and beauty On the death of her her galety and its headquarters are at Lorde for the galety and beauty On the death of her her galety and beauty On the death of her lateral through the same of the galety and beauty On the death of her lateral through the same of the galety and her galety and the same of the galety and her gal

in the laws of the game, which must be approved by a two-thirds majority of the members The club dates from 1787 Each year a prominent public man is elected as president.

Mary Magdalene Woman of Magdan, near the Sea of Galliee, mentioned in the New Testament as a devoted follower of Jesus Woman of Mag-Seven demons were cast out of her, she witnessed the Crucifixion, found the empty tomb, and first saw the risen Lord Incorrectly identified in the early Western Church with the unnamed penitent who anointed Christ's feet in Simon's house, the word magdalen came to designate fallen women in general, emotional tearfulness is similarly called maudlin

Maryport Urban district, seaport and market town of Cumberland It is 28 m from Carlisle, on the L MS Rly The chief industry is shipping, for which there are good docks The old name of the place was Ellenport It was named Maryport when the harbour was built in 1750, because in 1568 Mary Queen of Scots landed here on her escape from Scotland The Romans built a fort here Pop (1931) 10,182

Masaccio Italian painter Born near Florence, Dec. 21, 1401, his name was Tommaso Guidi. Masaccio is a nickname meaning slovenly Tom There are some notable frescoes by him in Florence and he is represented in the National Gallery, London

Masai People of Hamitic-negro stock in E equatorial Africa Tall, sinowy, thin lipped, chocolate-coloured, with Caucasoid nose, they speak a Nilotic language Of warlike disposition they long dominated a mountainous region in Kenya and Tanganyika formerly called Masal-land, habitually attacking caravans and expeditions Now under British control, partly in the vicinity of Mt. Kilima-Njaro, partly in Kenya, they number 40,000 nomadic herdsmen, tending 750.000 cattle

Masaryk Thomas Garrigue Pre-Republic Born March 7, 1850, in Moraria, a coachman's son, he was first a blacksmith After study at Vienna and Leipzig Universities After study at vicina and Leipzig Universities he took to teaching and at 29 became lecturer on philosophy and professor at Prague He was a member of the Austrian parliament, 1891-93, Re-elected in 1907 he opposed the encroachment of Germany on Austria and the aggressive policy of Austria in the Balkans While lecturing at King's College, London, during the War, he organised the Czechoduring the War, he organised the Czecho-slovakian Movement for Independence He is the author of The New Europe, 1918, and The Making of a State, 1925 He was made President of Czechoslovakia in 1918, re-elected in 1920 and again in 1927 At the age of 85 he resigned the Presidency in Dec, 1935, and Dr Ropes succeeded him

Dr Benes succeeded him.

Mascagni Pietro Italian composer and conductor, born on December 7, 1863, at Leghorn After some public success he entered Milan Conservatoire, abandantary it to learn him appropriate in the control of the c success he entered Milan Conservatoire, abandoning it to learn by experience in an operatic company. His opera, Cavalleria Rusicana, 1890, made him world famous His later works include, L'Amico Fritz, Iris and a Rapsodia Salanca, an experiment in film opera Masons' marks used in medieval buildings were devices cut in the stones to identify Masefield John Edward English poet Born at Ledbury, June 1, 1878, the son of a solicitor, he was educated at Rapsolist. Born May 7, 1865, he was educated at Dulwich College and

a seaman After a voyage to Chile as an apprentice he became an officer in the merchant service He left the sea after a few years and spent some time in New York rears and spent some time in New York before returning to England In 1902 he published Salt Water Ballads, and in 1911, The Everlasting Mercy Henceforward he took high rank among the poets of the day Other notable poems include, The Widow in the Byc Street and The Daffodil Fields In 1930

he was appointed poet laureate
Massfield has also written dramas and a
good deal of prose His dramas include
Pompey the Great, The Faithful, Good Friday,
The Trial of Jesus and The Coming of Christ
Among his novels are Capian Margaret,
Multitude and Solitude, Sard Harker, and The
Hawbucks Other books are The Old Front
Line and Gallipoli (dealing with the World War)
and a study of Shakespeare He also edited and a study of Shakespeare He also edited The Voyages of Captain William Dampier. At his home at Boar's Hill, near Oxford, he constructed a private theatre

Masham Market town and urban district of Yorkshire (NR) It is 8 m from Ripon on the River Ure, and is reached by the LNE Rly There is an agricultural trade, and brewing is another industry. As at fair is held in September

The title of Baron Masham was given in 1891 to Samuel Canling Lister, the owner of great textile mile at Manningham, Bradford He dled Fe 2, 1906 The title passed in turn to his tv) sons, but became extinct when the vounge ded in 1924

District Mashor.aland Granted Africa the British South Africa Company in 1889, it now p t of Southern Rhodesia (qv) It is the eastern part of the country and is named after the Mashonas, a Bantu tribe, who live in the region

Mask Lough or lake of Ireland It is on the borders of counties Galway and Mayo, and is about 12 m long, covering some 30 sq m In it are many islands

Wiskelyne John Nevil English entertainer Born at Cheltenham, Dec 22, 1839, he became a public entertainer With a partner he founded in 1865 the firm of Maskelyne and Cooke, and his reputation was increased when he exposed the tricks of some spiritualists In 1873 the firm moved to London, its first home being the Egyptian Hall, Piccadilly
Maskelyne had an extraordinary genius for staging optical and other illusions and the secret of some of them baffied all enquirers

In 1905 the firm moved to St George's Hall, Regent Street It became Maskelyne and Devant, but after the retirement of David Devant was carried on by Maskelyne's grandson and known simply as Maskelyne's. John Maskelyne died May 18, 1917

Mason One who cuts, dresses and sets building stones and similar material The term monumental mason is applied

to one who works in stone for memorials, etc.
The trade is represented by the Masons'
Company, one of the smaller of the London
Livery Companies

Trinity College, Oxford After a spell of secretarial work he began to write, and in 1895 A Romance of Hastdale appeared In 1896 he scored a success with The Courtship of Morrice Bueller the first of a number of novels in the romantic style in which historical incidents were sometimes used Perhaps the best are Miranda of the Balcony Clementina The Broken Road The Four Feathers, and Running Water He also wrote two excellent detective stoiles, At the Villa Rose and The Prisoner in the Opal These have been dramatised, as have several of his novels His play, The Wincess for the Defence was after wards made into a novel His later works include The Winding Stair, The House of the Arrow, No Other Tiger, and The Dean's Elbow From 1906 10 Mason was Liberal M P for Coventry and during the Great War he served with the Manchester Regiment on the staff

MASON

Mason sir Josiah English philanthro pist Born at Kidderminster, Feb 23, 1795, of humble parentage he settled in Birmingham and in 1825 began to manu facture hardware. He made a speciality of pen nibs in which he built up an enormous business, and he was also a pioneer in the electro plating industry. Knighted in 1879, he died June 16 1881 Mason was the founder of Mason College at Birmingham wilch was the nucleus of the great university there. He also founded an orphanage at Erdington

also founded an orphanage at Erdington Masonry Art or trade of building with stone, concrete blocks or similar material. The blocks are roughly shaped in the quarry (quarry faced), or hammered to give a flat surface and straight edges (pitch faced), and finally dressed or accurately finished. Rubble Masonry is where rough blocks are built up with or without mortar, and ashlar masonry where the dressed blocks are carefully set with thin joints of mortar.

Maspero Sir Gaston Camille Charles
At Paris, June 23, 1846, in 1874 he became
Professor of Egyptology at the College de
France He was for many years the keeper
and director of the museum at Bulak, and
carried out notable excavations at Memphis
Karnac, Sakhara, etc He was the author of
several works on the history of Egypt He
was awarded the K C M G in 1909, and died
in Paris, June 30, 1916

Was awarded and 1975 and 1976 and 1976

Masquerade Revel in which the participants disguise themselves with quaint clothing and wear a mask over the eyes From the early thirteenth century it was popular in England with all

century it was popular in England with all classes, particularly in the reigns of Edward III and the Stuarts It survives, modified, in fancy dress carnivals

Mass hame used for the celebration of the Holy Eucharist according to the rites of the Roman Catholic Church It is a commemoration of the Passion, a propitiatory sacrifice, a service of praise and thanksgiving and a means of grace to all its participants and celebrants A high mass is sung and solemnised with incense A low mass is said. A requiem mass is one for the dead

Massachusetts States In the Net it is one of the original New England states It has a coastline on the Atlantic, and an area of 8268 sq m Boston is the capital and the largest town other populous centres are Worcester, Springfield, Fall River Cambridge and New Bedford It is governed by a legis lature of two houses and sends two senators and 15 representatives to Congress Massa clusetts was founded in 1620 when the Pilgrim Fathers made their first permanent settlement here Massachusetts Bay is a broad inlet in the coast, Harvard University is one of many educational institutions in the state Pop (1930) 4,249 614

Massage System of treating complaints by rubbing and similar manual movements. It is efficacious for rheumatism, sciatica, arthritis and kindred aliments. It is also used for sprains and other injuries, and to soothe nervous and sleepless persons. It was practised by the Chinese and other peoples in ancient times and was brought into Eugland in the 18th century. It was developed in the 19th, largely by the Swedes, and became a recognised method of treating affections of the joints. The chief English centre for the training of masseurs is the National Hospital, Queen's Square London E.C. Those entering the profession usually secure a certificate, given after examination by the Chartered Society of Massage and Medical Gymnastics, Tavistock Square, London W.C.1

Masséna andré French soldier Born at Nice, May 6, 1758, he is considered to have been Napoleon's greatest general He served in the Sardinian and French armies and distinguished himself at the battles of Rivoll, Zurich, the siege of Genoa Essling and Wagram Made a marshal in 1804, in 1810 he fought against Wellington in Spain (Torres Vedras), and was created Duke of Rivoll and Prince of Essling At the Restoration he supported the Bourbons He died April 4, 1817, leaving seven volumes of memoirs which were published in 1849 50 Massey William Ferguson New Zealund stategman Born at Limannian Responsible of the sevent sevent solumes of memoirs which were published in 1849 50 Massey

Massey william Ferguson New Zealand statesman Born at Limavady, Ireland, March 26, 1856, he went to New Zealand in 1870 and became a farmer In 1894 he entered parliament and in 1903 became leader of the Conservative opposition. In 1912 he became prime minister, and his character and ability enabled him to lead New Zealand with success throughout the World War A member of the Imperial War Cabinet in 1917 1918 he represented his country at the Peace Conference in Paris, 1919, and attended the Imperial Conference in London in 1921 He was defeated at the general election in 1922 and dipd May 10, 1925

Massilon Jean Baptiste French divine Born at Hyères
June 24, 1663, he became a priest In 1717
he was made Bishop of Ciermont and delivered memorable sermons before the king and court in Paris One of his greatest efforts was his funeral oration over Louis XIV He died Sept 18, 1742

Massinger Born in Nov 1583, at Salisbury, he was educated at Oxford Of his many plays 15 remain, including, A New Way to Pay Old Debts, The Maid of Honour, and The Bashful Lover Massinger died in March, 1640, and is burled in St. Saviour s, Southwark.

Massingham Henry William Engat Norwich in 1860, he was educated at the grammar school there. After experience in a newspaper office in Norwich, he settled in London and became editor of The Star. As editor of The Daily Chronicle, 1895 99 he was a great success until his views on the war against the Boers led to his retirement. He served as London editor of The Manchester Guardian, worked for The Daily Neus, and then edited The Nation from 1907 till 1921. He died Aug. 27, 1924. Massingham was a great journalist, one who took his calling very seriously. Everything he wrote was charged. Born seriously Everything he wrote was charged with his own individuality and was worth reading, although he managed frequently to find a point of view that was antagonistic to the general feeling of his countrymen

Mast Straight, upright spar of timber or hollow metal Secured to a sailing vessel's keel, it supports the deck yards, sails and rigging Originally a single pole, it became a compound or made mast, distinguished from the deck upwards as lowermast, top mast, top gallant mast and top gallant royal There are fore, main and mizzen masts and even more A jury mast is an emergency and even more A jury mast is an emergency spar Masts also serve for supporting cables, aerials, overhead trolleys and airship moorings

Master of the Horse Official in the royal household He looks after the stables and kennels and ranks as the third official of the court Before the Great War the office was a political one and its holder was changed whenever there was a new government

Master of the Rolls Judge of the Rolls High Court of Justice He appeared in the 15th century as the Keeper of the State Rolls Later he became judge of the Court of Chancery, and later still the president of the Court of Appeal He is usually made a peer on appointment and ranks third in the judicial hierarchy He is the head of the public record office and chairman of the Historical Manuscripts Commission

Masterton Town of New Zealand In North Island, it is 66 m from Wellington with which it is connected by railway It is the centre of a large sheep-rearing district The town was damaged by the carthquake of Feb 1931 Pop 8525 Pop 8525

Mastic Gum resin obtained from introc, pustacea lentiscus, common in southern Europe It forms yellow irregular brittle "tears" having a faint aromatic odour Becoming plastic when heated, it is used as a teath et al. tooth stopping and for making a colourless varnish for paper

Mastiff Breed of dog Breed of dog It is powerful, round - muzzled, short-coated. short-coated, small-eyed, and thin tailed, with pendulous upper lips Brindled or fawn-coloured, it has ears and muzzle of black The old English strain, bred for sporting purposes in Tudor times, is now used as a watch dog The modern mastiff is 29 ins high, with pendent cars

Mastodon Extinct mammal of the elephant family, closely allied to the mammoth It had conical tubercles on its molars, and in some forms tusks were present in both upper and lower jaws. The mestodon was covered with thick woolly present in both upper and lower lick woolly mastedon was covered with thick woolly hair, and it existed from the Miocene age to the Pleistocene in Europe and North America

Mastoid Name of a part of the temporal bone in the skull It is situated immediately behind the ear and contains a number of hollow cells or cavities

Mastoiditis is a disease of the mastoid bone and is due to suppuration of the ear It shows itself in pains and tenderness in the affected part, in irregular temperature, especially at night, headache and perhaps giddiness and sickness. There is also a visible discharge from the ear and in the young the neck is usually stiff. There may be a degree of deaf-An operation is usually the only cure

Matabeleland District of S Africa It lies between the Transvaal and Mashonaland It was granted to the British South Africa Company in 1889, and close them has been part as Phasian 1889, and since then has been part of Rhodesia

The name is that of the Matabele, a Bantu tribe living in the region In 1893 the Matabele attacked the Mashonas in Mashonaland, but were defeated by troops sent by the British South Africa Company, which soized their capital, Bulawayo In March, 1896, they again rose in rebellion, but peace was soon made, the tribe submitting to British rule

Matador Name in Spanish bull fighting for the chief bull fighter, who is appointed to kill the bull, also one of the three principal cards in ombre and quadrille

Match Splinter of wood usually aspen or white pine, waxed thread or cardboard, tipped with an infiammable substance which is ignited by friction The earliest matches were tipped with chlorate of potash and sugar and ignited by dipping in strong sulphuric acid This type was superseded by friction matches and about 1836 phosphorus came into use The modern friction matches are tipped with phosphorus sesquisulphide or similar substances In sesquisulphide or similar substances In safety matches the phosphorus is on the box, and the match tip is coated with an oxidising mixture

Matchlock Form of musket used in England from the 15th to the end of the 17th century, when it was superseded by the flintlock it was fired by means of a lighted match applied to the touchhole by a cock or lever, released on

touchhole by a cock or lever, released on pressing the trigger

Maté Roasted and powdered leaves of an evergreen shrub of the holly order, growing wild in Paraguay and S E Brazil, and oultivated in plantations (*llex paraguayensis*) An aromatic and bitter tealike infusion, made with boiling water and ilke infusion, made with boiling water and considered with sugar in a cup or callabash. like infusion, made with boiling water and sweetened with sugar in a cup or calabash, is sucked through a cane or silver tube Sce

Materialism Theory according to which the ultimate reality in the universe is matter. It is thus the ity in the universe is matter. It is thus the opposite of idealism and is usually regarded as antagonistic to all religious systems. It was taught among the Greeks and has had powerful advocates in modern times. In a more general way, it refers to the belief that there is no future life, and to the tendency to make the fullest use of the opportunities of the present life without regard to the possibility of any other.

Mathematics Term usually applied to the science of numbers and space and the relations between these A wider and more modern definition is "the science concerned with the logical deduction of consequences from the general

principles of reasoning" (Russel) Mathe matics is divided into pure and applied, the former including arithmetic, algebra, theories of numbers, etc Geometry, both pure and descriptive, also come under this head Applied mathematics includes mechanics, physical science, geophysics and astrophysics, geodesy, etc. The study of mathematics goes back to early Greek times, and in Egypt the famous Rhind papyrus is mathematical in nature and believed to be a copy of a still earlier document.

Mather Cotton American Puritan. He chusetts, Feb 12, 1663, a son of Increase Mather (1689 1723), a Puritan preacher, and in 1684 became assistant to his father He remained in Boston preaching or writing until his death, Feb 13, 1728 Mather was also known as a linguist and published an enormous number of books Among them are his Ecclesiastical History of New England in seven volumes, and a book on witcheraft

Matilda Name of two English queens daughter of Henry I She was born in 1102 and on the death of her brothers, became heiress to the English throne When Henry died, however, in 1135 his nephew, Stephen, selzed the throne, Matilda being then in France In 1141 she defeated Stephen at Lincoln and was crowned queen The civil war continued until 1153 when peace was made and Matilda's son, afterwards Henry II, was recognised as her heir Matilda died Sept. 10, 1167

The other Matilda was the wife of William the Conqueror She was a daughter of Baldwin, Count of Flanders, and was descended from Alfred the Great She married William in 1053, and was crowned queen of England in 1068 She died Nov 3, 1083, and was buried

at Caen

Matisse Dec 31, 1860, he studied in Paris and his work soon attracted attention He was one of the original Fauvists and his style is noted for its simplicity, its rather violent colouring and its vigorous calligraphic manner of brushwork. With Picasso he came to be acknowledged as the leader of the more mature art movement of Paris Matisse, who lived for a time in Morocco, is represented in several European galleries and among his pictures are "Tollet" and "The Sisters"

Matlocks The Urban district and in shire It consists of Matlock Bridge, Matlock Bath and Matlock Bank, which until 1927 were separate areas It stands on the Derwent, and is served by the LMS Rly, is 145 m from London and 17 from Derby There are some industries, but the place is chiefly a pleasure and health resort. There are medicinal springs at Matlock Bath Near Matlock is some of the most beautiful of the Derbyshire scenery, including the High Tor and the Heights of Abraham Matlock Bath is famous for its caves and its perifying wells. Pop (1931) 10,599

Matoppo Hills Range of hills in Rhodesia The district lies to the east of Bulawayo and covers about 1000 sq m On one of the hills called the World's View is the grave of Cecil Rhodes, a national cemetery and a national park

Matriarchy Form of social organisation determining per-

sonal rights and obligations from the maternal side. It may govern descent and inheritance, require the husband to live, temporarily or permanently, with the wife's social group, or control the children through the mother or her male relations. All these conditions, exemplified in some American Indian tribes, collectively constitute mother right.

Matriculation Act of admitting a student to member-ship of a university Before doing this the universities require the student to pass an examination, exemption from which is granted to those who have passed an examination of the same standard at school The metricula tion examination of London university is a popular educational test. The universities of Manchester, Liverpool, Leeds and Sheffield combine to have a joint examination.

Matrix In mineralogy and mining a stony matter in which a metallic ore is embedded Often the presence of certain minerals serves as a guide to the occurrence of par-

ticular metals

The term is used also for the mould in type setting machines from which a letter is east Some machines use the individual matrix, others, a row giving a line of type. The term is also applied to the papier maché impression used to cast a page of type in stereotyping

Matron Roman word for a married woman, especially one of high character It is now used for the woman who is at the head of a workhouse, hospital or orphanage or looks after the health, food and clothing of the pupils in a school A jury of matrons is a jury summoned in case a woman who is sentenced to death pleads that she is pregnant. Their business is to decide if this is true or false, if the former, the sentence of death is deferred or annulled

Matsys Quentin Flemish painter Born at Louvain in 1466, Matsys (or Massys) was at first a blocksmith but took up painting and became one of the great artists of his time His early work is seen in the 'Virgin and Child" in the Brussels Gallery and the "Madonna" in the National Gallery London, but his most famous work is the triptych, "Pléta," now in Antwerp Museum His paintings show great technical skill delicacy of touch and religious feeling He died at Antwerp in 1630

Matte Term used in metallurgy for the fusing from the calcination of copper ores, an alternative term being regulus By this method, adopted for oxides, carbonates and siliceous ores the metal is concentrated in the matte, which usually contains from 25 to 55 per cent.

Matter Term in physics applied to the substance composing the universe and of which we are cognisant by means of our senses Matter exists in three states, solid, liquid and gaseous, these states differing from one another in the degree of aggregation of the component atoms according to the conditions of temperature and pressure According to the atomic theory, atoms are the smallest particles of matter, but are grouped together to form molecules in compounds. Recent research has shown that the atom itself is a complex structure formed of electrons and protons, the centres of radiation of waves of energy

Matterhorn With an elevation of

difficult slope on the Swiss side than on the Italian It was first climbed by Whimper and his party in 1865

Matthew Saint and apostle A Jewish customs officer, usually identifled with Levi, he became one of Christ's twelve disciples Owing to confusion with Matthias, apocryphal legends claim his martyrdom in Lthiopia, commemorated in the Eastern on 16th Nov, and in the Roman Church 21st Sept, on which day the Anglican Church commemorates his call

Matthew The Gospel of First book of the New Testament, traditionally attributed to the apostle Modern tionally attributed to the apostle Modern scholarship tends to hold that Matthew's personal contribution comprised certain lost memoranda or Logia which he compiled in Hebrew A later compiler expanded them into our completer narrative, using Mark's gospel as a framework Designed for the Jewish community, the book takes for granted the authority of the Old Testament, from which 65 citations are made claiming our Lord's teaching as fulfilling the Mosale law. See GOSPEL

Maubeuge Town of France It is on the Sambre, near the frontier of Belgium Before the Great War it was a fortified place, but the forts were destroyed by the Germans in Aug, 1914, and the town surrendered, remaining in German possession until the end of the struggle Pop 24,221

Mauchline Town of Ayrshire It is noted for its cattle and horse fairs Burns lived near at the farm of Mossgiel

Maud Queen of Norway
she was born Nov. 26, 1869
she married Charles, Prince of Denmark who, in 1905, became King of Norway as Haakon
VII They have one child, a son, Prince Olat, born July 2, 1903, who in 1929 married
Definees Norths of Sweden Princess Martha of Sweden

Maude Cyril English actor-manager Born in London, April 24, 1862, and educated at Charterhouse, he began his career on the American stage in 1883 He was co-manager of the Haymarket Theatre from 1896 to 1905, and afterwards sole manager of the Playhouse (built by him) until 1915 He the Playhouse (built by him) until 1915 He achieved notable successes in Grumpy, Lord Richard in the Pantry and These Charming People (filmed 1931), and he is the author of The Haymarket Theatre, 1903, and Behind the Scenes with Cyril Maude, 1927 In 1888 he married Miss Winifred Emery (1862-1924)

Maude Sir Frederick Stanley. British Soldier He was born June 24, 1864, son of General Sir Erederick Novae.

Waude soldier He was born June 24, 1864, son of General Sir Frederick Maude, VC He served in the South African War and organised the Territorial Forces of Canada After service in France, the Dardanelles and Egypt, he was promoted army commander in Mesopotamia and was responsible for a successful forward movement which drove the Turks from Kut He later occupied Bagdad, and died there of cholera, Nov 18, 1917

Maugham William Somerset English author and playwright. Born in 1874 and educated at King's School, Canterbury, and Heidelberg University he adopted a medical career, gaining his MRCS and LRCP, but later took to literature

14,782 ft, it is situated 6 m S W. of Zermatt His more notable novels include Liza of on the frontier of Switzerland and Italy It Lambeth, 1897 The Moon and Supence, 1919 is the end of a mountain ridge and has a less and Ashenden, 1928, which is based on his difficult slope on the Swiss side than on the experiences in the secret service during the Great War Ah King, a volume of short stories, appeared in 1933 His best known

plays are The Land of Promise, 1914, The Circle, 1921, East of Sucz, 1922, and Our Betters, 1923 The last is a brilliant satirical play of modern society. Of his later plays Cakes and Ale was produced in 1929, and Provided Williams.

in 1930, and The Painted Veil in 1931

Maumbury Rings Spot near Dorset It is believed to have been in Roman times the site of an amphitheatre which held 12 000 spectators

## Mauna Loa See Hawah

Name meaning "command" Maundy Week, also the ceremonial ablutions, gift of money and Eucharistic celebration proper to the day Anciently the pope, royalty and nobility washed the feet of as many poor people as they were years old in fulfilment of Christ's "command" (John xiii 34) In England the "command" (John xiii 34) In England the custom was abolished in 1754, but maundy money is still given to the poor on this day at Westminster Abbey, a penny for each year in the sovereign's age

Maupassant Henri René Albert Guy Born in Normandy, Aug 5, 1850, he is con sidered by many as the greatest of short story writers Many of his stories are the result of his experiences as a soldier in the Franco-Prussian War His best known books are La Maison Tellier, 1881, Une Vic, 1883, Bel-Ami, 1885, and Pierre et Jean, 1888 He became insane in 1892 and died July 6, 1893

Maurice Sir Frederick Barton English soldier Born Jan 19, 1871, eldest son of Sir J F Maurice, he entered the army in 1892 and saw service on the Indian frontier and in South Africa He distinguished himself during the Great War, being heighted in 1916, but was retired for a breach of discipling in white the Bress chellenging the secure of writing to the Press, challenging the accuracy of Ministerial statements concerning the concerning the strength of the army in the field in the spring of 1918

He then became a war correspondent and, after the War, Principal of the Working Men's College, St Pancras, in 1922 He was Professor of Military Studies at London University, 1927, and Chairman of the Adult Education Comand Chairman of the Adult Education Committee, 1928 He has published Forly Days in 1914, lives of Lord Wolseley, Robert E Lee, and Lord Rawlinson, Governments and War, British Strategy, and The 16th Foot

Maurice John Frederick Bonison. Normanston, Suffolk, Aug 29, 1805, son of a Unitarian minister, he studied at Trinity College and Trinity Hall, Cambridge Between 1840-53 he held professorships of literature and theology at King's College, London In 1854 he helped to found and became first principal of the Working Men's College In 1860 66 he was incumbent of Vere Street Chapel, London, and in 1866 was appointed to the Chair of Moral in 1866 was appointed to the Chair of Moral Philosophy at Cambridge He died in London, April 1, 1872 A friend of Charles Kingsley, his forceful personality and sympathy with the oppressed made him a factor in the religious life of his time, and the movement known as Christian Socialism was an outcome of his teaching

Mauritius Island in the Indian Ocean, sometimes called the Ile de France It is 500 m east of Madagascar and France It is bound east of bladagascar fine covers 720 sq m. The capital and chief port is Port Louis. The island is mountainous, but in the fertile valleys the sugar cane and other tropical plants grow freely. The island is a British crown colony, under a governor who is assisted by two councils. Having been a Dutch progression, Mauriting became Erepub in 1715. possession Mauritius became French in 1715 and British in 1814 In 1931 great damage was done by a hurricane Pop (1931) 400,904, the majority being Hindus

Andró French author, born Maurois in 1885, and educated at Rouen. Many of his books have been trans lated into English Among them are The Stlence of Colonel Bramble, dealing with the War, a Life of Disraelt Ariel, an imaginative blography of Shelley, and Don Juan, a similar world and your lates. work on Lord Byron He has written a book on Marshal Lyautey In 1931 he lectured in London The Family Circle, a novel, was published in 1932, and in 1934 a study of Charles Dickens, and a history, King Edward and His Times

Mauser Rifle Type of magazine rifle invented by a German, Paul Mauser, and adopted as the standard military rifle in Germany It has a bolt action and is characteristised by its durability and

accuracy of aim

Mausoleum Large tomb or memorial The term is derived from the tomb at Halicarnassus in Asia Minor erected to the memory of Mausolus King of Carla in 353 BC by his widow Artemisia This ornate building was 140 feet in height and surmounted by colossal statuary Portion the sculptures are in the British Museum. Portions of

Mawson Sir Douglas British explorer Born at Bradford in 1882, and educated at Sydney University, he was appointed to the scientific staff of the Shackleton Antarotic Expedition in 1907 He was also on Antarctic Expedition in 1907 He was also on the staff of the Everest Expedition and the Magnetic Pole journey in 1908 He was leader of the Australasian Antarctic Expedition of 1911 14 when he discovered radium ore at Mount Painter and of the British Australian and New Zealand Antarctic Expedition of 1929 Since 1920 he has been Professor of Geology and Mineralogy in Adelaide University He was knighted in 1914 and wrote The Home of the Blizzard

Adolphe Belgian patriot. Brussels in 1869, he entered politics in 1894 and became Burgomaster of Brussels in 1909 When the Germans entered Brussels in 1914 he demanded complete freedon of action, and formed a central committee to deal with supplies Arrested in Sopt 1914, he was sent to Germany but escaped in Nov 1918, and returned to his native city

Maxim Sir Hiram Stevens American in Waxim ventor Born in Maine, Feb 5, 1840, he gained early a wide experience of engineering He made discoveries of great value in the use of steam and electricity Having settled in England he was naturalised and in 1901 was knighted He died Nov 24, 1916 Maxim's name is perpetuated by the Maxim run he was also a planear in content. he was also a pioneer in aeronautics

Mary, heiress of Philip, Duke of Burgundy, and thus greatly increased the Habsburg dominions He became Emperor in 1493 He was a patron of art and letters as well as an administrator of considerable gifts and a good soldier. Much of his reign was occupied with warfare against the French in Italy and against the Turks who were pressing up the valley of the Danube By the marriage of his son Philip to Juana, heiress of Ferdinand and Isabella of Spain, he brought about the succession of the Habsburgs to the vast Spanish dominions, while the marriage of his grandson ferdinand to Anna of Hungary brought in also Hungary and Bo homia Owing to his liberality and extrava gant schemes he was always in want of money, and thus failed to achieve most of his grandoise designs He died Jan 12 1519

Emperor of Mexico Maximilian son of Francis Charles, Archduke of Austria, he was born July 6, 1832, Joseph In 1857 he was made Governor of Lombardy and Venetia, then Austrian posses sions and in 1863 accepted the throne of Mexico and was crowned in 1864 The French, who were his chief supporters left him to struggle with his recalcitant subjects. The result was that he was between the terms and result was that he was betrayed to them, and on June 19 1867, was shot Maximilian wrote a book translated as Recollections of My Life

Max Muller Friedrich German scholar A son of Wil helm Miller, a poet, he was born at Dessau, Dec 6, 1823, and was educated at Leipzig and Berlin He made a special study of philology and settled in London In 1854 he was made Professor of Modern Languages at Oxford and Berlin in 1866 Professor of Comparative Philology He died at Oxford, Oct. 28, 1900 Max Müller was the foremost philologist of his day and made the results of his studies very widely known through his volume The Science of Language He translated Kant's Critique of Pure Reason and edited the Sacred Books of the

Maxstoke Village of Warwickshire It Here is Maxstoke Castle, built in the 14th century, and notable for its moat drawbridge and gatchouse Near are the ruins of a priory

Maxton James Scottish politician Born June 22 1885, and educated at Barrhead School and Glasgow University, he became a teacher In 1919 he was appointed organiser for the Independent Labour Party, and in 1922 was elected MP for Bridgeton (Glasgow) being returned at later elections He was a leader of the advanced group who broke away from the official Labour Party in 1931 A biography appeared in 1935

With Dumfries Maxwelltown With Dumfries a brightshire It stands on the Nith, on the L.M 8 It has an observatory and a museum e bridges connect it with Dumfries Rly Three bridges connect it with Dumfries Tweeds are manufactured. The old name of the place was Bridgend it was renamed in 1810 after the Maxwell family.

May

Phil English artist. Born in
Leeds, April 22 1804, he became,
while still a boy a scene painter at a theatre there By painting portraits of actors in a casual way he revealed an extraordinary genius Maximilan I Holy Roman Emperor Son of Frederick III, born in Vienna March 22 1459, he married Bulletin After his return to London he worked for Pick Me Up, The Pall Mall Budgel and The Graphic, and finally joined the staff of Punch He died in London, Aug 5, 1903 May published The Parson and the Painter and called Pall Marks to the Parson.

edited Phil May's Annual

May Sir George Ernest English financier Born in 1871 he became a cierk, and rose to be secretary of the Prudential Assurance Co During the war period he assisted the Government in connection with the loans from the United States and in other ways. In 1918 he was knighted. He retired in 1930 and in 1931 was chairman of the committee that reported on the condition of the nation's finances and suggested certain economies. In 1932 he and suggested certain economies. In 1932 he was made chairman of the board appointed to In 1932 he advise the government on tariffs

advise the government on tariffs

Maya American Indian people in middle
America A shortish, round-headed,
dark skinned stock, they are unprogressive
peasants in Yucatan, Campeche, N Guatemala and elsewhere The 15th century, before
the Spanish advent, witnessed the collapse
of an advanced Maya civilisation, distinct from
the Aztec, lasting 2000 years Marked by Impressive architectural remains at Copan,
Quirigua, Palenque and, in British Honduras,
Lubaantun, this early Maya empire, already
decadent by A D 600, was followed by a northward migration which ultimately produced
great cities like Uxmal and Chichen Itza. A
remarkable system of chronology, reaching remarkable system of chronology, reaching back to the 6th century B c, was recorded in a peculiar glyphic script, which has been only partially deciphered

Maya or Mahamaya. Mother of Gautama Buddha. Legend makes her and her sister, Prajapati, the principal wives of Suddhodana, the wealthy Kshattriya landowner of a small state surrounding Kapilavastu, in S Nepal When 45 years old, Maya gave birth to Gautama o 560 BC in a wavside grove visited 300 years afterwards by Asoka, whose commencative nillar there was discovered in commemorative pillar there was discovered in

Maybole Burgh and market town of Ayrshire It is 9 m from Ayr and 50 from Glasgow, on the LMS Rly The tolbooth was once a castle in which the Carricks and Kennedys lived Pop (1931) 4210

May Day First day of May In England in the Middle Ages it was a popular festival, probably a survival of a much older custom of celebrating the

or a much office custom of celebrating the opening of spring

The celebration took the form of dancing round the maypole and crowning a girl as queen of May The ceremony is still observed in some parts of England The day is also regarded as Labour Day and is a holiday on the Stock Exchanges

Mayfair District of London It lies between Piccadilly and Oxford Street with Park Lane to the west and Bond Street on the east It is a fashionable residential district and there are many large houses in its streets and squares. It owes its name to a fair which was held here every year until 1708. Much of the land belongs to the Duke of Westminster

Mayfield Village of Sussex It is 11 m the S Rly The place was a market town in the Middle Ages and here the Archbishop of Canterbury had a palace, of which there are slight ruins

about 102 men, women and children, from Plymouth, Devon, on Sept 6, 1620 It reached Plymouth, Massachusetts, on Dec 21 This double decked, square rigged brigantine was companioned by the Speedwell from Southampton, on Aug 5, but proceeded alone from Plymouth westward when the Speedwell proved the speedwell proved unseaworthy

May Fly (Ephemeridae) Family of small insects Belonging to the order Neuroplera, it is distinguished by having four membranous wings, rudimentary mouth parts, large compound eyes, and usually three long filaments at the end of the abdomen The larval stage is aquatic and predaceous, and in some forms lasts for years The imago lasts only from a few hours to a few days

Maynooth Town of the Irish Free 15 m from Dublin, on the Gt S Rlys The chief building is the Roman Catholic training college for priests, designed by A W Pugin This was founded in 1793 and accommodates 500 men There was once a castle at Maynooth, a stronghold of the Fitzgeralds The splendid park of Carton seat of the Dukes of Leinster. park of Carton seat of the Dukes of Leinster, is near Maynooth

is near Maynooth Mayo County of the Irish Free State In Mayo the province of Connaught, it covers 2158 sq m and has a long coastline on the Atlantic Ocean It contains Loughs Conn, Mask and Carra, and much of it is wild and mountainous Achill, Clare and other islands belong to it, and Clew, Blacksod and Killala Bays are openings of the sea The Owenmore and the Moy are among the rivers Castlebar is the county town other places are Balling is the county town, other places are Ballina, Killala and Westport It is served by the Gt. S Rlys The soil is poor The majority of the people live on the land and by fishing Pop (1926) 172,690

Mayonnaise Salad dressing consisting up raw, with olive oil and vinegar or lemon juice blended gradually till the mixture is of a creamy consistency Any particular dish pre-pared with this dressing is also called Mayonnaise, as salmon mayonnaise, etc

Mayor Word used for the chief officer of a city or borough In England he is elected by the council for a year, and in many cases receives a salary He is a magistrate and presides over the meetings of the council In London and other cities he is called the Lord Mayor (q v) The Scottish equivalent

is provost

Mayweed (Matricana modora) Plant

is of branching growth with narrow finely cut

for the order Compositae. It

is of branching growth with narrow finely cut

for the scentless flowers. The leaves and daisy-like scentless flowers. The stinking Mayweed (Athemis cotula) has a malodorous juice which causes skin irritation to persons handling it

Mazarin Jules Italian cardinal and diplomat He was born at Piscina, in the Abruzzi, July 14, 1602 Richelicu in dying, recommended him to Louis XIII, whose chief minister he became Mazarin was whose chief minister he became Mazarin was naturalised later, and retained his power under Louis XIV He was made a cardinal in 1641, brought the Thirty Years' War to a successful conclusion with the Treaty of Westphalia in 1648, triumphed over the Fronde, and died March 9, 1661

Canterbury had a palace, of which there are slight ruins

Mayflower Salling ressel carrying the Pulgrim Fathers (qv),

Court Palace dating from the time of William

and other close growing trees

Mazeppa Cossack trader Ivan Ste Diazeppa phanovitch Mazeppa belonged to a noble Pollsh family and was born in 1644. He was educated by the Jesuits and after some time at the court of Poland went to the Cossacks. The story goes that he reached them tied naked to a wild horse, a punishment for a love affair He made a great reputation among the Cossacks by his skill and in 1687 became their leader or hetman He helped Peter the Great against Turkey and Sweden, but in 1708 transferred his services to Peter's enemy Charles XII The enmity of the Tear was fatal and Mazeppa's power was soon broken He fled to Turkey and died, probably a suicide at Bonder, Sept 22, 1709 His romantic story has been used by Byron and Victor Hugo

Mazurka National Polish dance origin ating in Mazovia in the 16th Its vigorous character domands contury music in triple time with accents on the third and an invariable feminine ending

Chopin idealised the musical aspect

Gluseppe Italian patriot and Mazzini IVIAZZIN1 author He was born at Genoa, June 22, 1805 For forty years (1830) 1870) he was the "most untiring political agitator in Europe," preparing the soil and He was born sowing the seed of Italian unity Banished from Italy in 1830, he went to Marseilles where he organised the society called "Young Italy ' In 1837 he came to London, where he worked to enlist English sympathy in the cause of Italian unity He was one of the triumvirs of the shortlived Roman republic of 1849 and vigor supported Cayour and Garibaldi in ougly 1859 60 He saw the consummation of his hopes for a united Italy before he died on March 10, 1872 An untiring propagandist he is boot known by his Letters and his essay,

In the Dulies of Man

Mead Alcoholic beverage made by boiling
honey in water with spices and adding a yeast or other forment. It is some times fortified with brandy and flavoured with hops Common in mediaeval England and throughout Europe, it is still prepared in rural

E gland

Weadow Grass General name for the more useful hay and pasture grasses of the genus Poa abounding in cold and temperate regions Usually tall stout perconnicls, with soft flat leaves and panicles of several flowered spikelets they include the smooth P pratensis, the blue grass of Kentucky, the rough P trivialis, and the wood meadow grass P nemoralis

Meadow Rue Large genus of poren nial horbs of the but tercup order natives of N temperate and frigid regions (Thalictrum) Among British frigid regions (Thalictrum) Among British species T flavum with stout, furrowed stems 2 4 ft high bears pyramidal clusters of small flowers with yellow perlanth leaves, petals

being absent

Meadow Saffron (Colchicum autumulus) Bulbous plant of the order Liliaceae It is a hardy perennial the large erocus like flowers of lavender purple bloom in September leaves are large and fleshy and appear in the spring, dying down before the flowers appear The plant is poisonous and contains the drug colchicum, which is prepared for medicinal use in gouty and rheumatic afflictions

III The paths leading to and from the centre | Meadow Sweet (Spiraca ulmaria) are bordered usually by hedges of yew, beech | Meadow Sweet (Spiraca ulmaria) the rose order It is allied to the dropwort, indigenous to N Europe, Asia Minor and N. Asia Common in waterside meadows in Britain its short rootstock supports much divided toothed leaves, 1 2 ft. long, white and downv beneath and 2 4 ft. furrowed stems with dense clusters of small, fragrant, creamywhite flowers

Mealies Airican colloquial name, derived from Boer Dutch, for cars or cobs of the maize plant. This plant is grown in mealle fields or mealle gardens. See

Mearns Name by which the Scottish county of Kincardine (qv) is sometimes called

Measles in childhood. One attack One attack usually confers immunity

The symptoms are a feverish cold with running eyes and nose and a general feeling of lassitude. The blotchy rash does not appear until the fifth day. As the first stage is very infectious, the child should be put to bed immediately measles is suspected and kept away from other children. A doctor must be consulted as serious complications such as proposed as serious complications.

constitled as serious complications such as broncho pneumonia, and after-effects some times arise from quite a mild attack Incubation period is 10 14 days

Meath County of the Irish Free State.

It is in the province of Leinster and has an area of 905 sq m, with a short coastline on the Irish Sea Trim is the county town in the shire are Navan Kells Beating. in the shire are Navan, Kells, Bective and other places of interest, as well as Tara and Nowgrango The soil is fertile and the country level save in the west and the people are chiefly employed in farming The chiefly employed in farming The chiefly employed and the Blackwater Pop (1926) 62,969

Meath was the name of one of the kingdoms of Iroland in the Middle Ages It lasted until the 12th century and later was divided into the counties of Meath, Westmoath and Long-

ford.

Meath Earl of Irish title held by the family of Brabazon In 1616
Sir Edward Brabazon, MP was made Baron Ardec His son, William the 2nd baron, was made an earl in 1627 Reginald the 12th carl was known as a philanthropist and for his efforts to make Empire Day a national holiday

efforts to make Empire Day a national holiday He died Oct 11, 1929 His son the 13th earl, when Lord Ardee, communded a battalion of the Irish Guards in the Great War Mecca City and capital of the kingdom Jeddah on the Red Sea and is known as the birthplace of Mahomet and the holy city of the Mohammedan world Here is the great mosque, containing in its courtyard the Kaaba.

Mechanic One skilled in the use of tools or in the manipulation of machinery The term has special applications such as motor mechanic or directaft mechanic

A Medhanies' Institute was an association of working men to obtain a wider education by means of lectures, classes and libraries. Sitch institutes have been superseded by technical schools The first mechanics' institute was founded in 1824 in London by Dr Birkbeck

Mechanics Branch of physical stience concerned with the motions of bodies and the nature of the forces which upon bodies at rest. One section, dynamics deals with the action of force upon moving bodies while another branch, statics, is concerned with bodies and forces in equilibrium

Mechlin City of Belgium, also called Malines It is 13 miles from Brussels on the Dyle The industries include railway shops and printing works The archience is the Primate of Belgium The city was long famous for its lace Pop 60,506

Mechnikov Iliya Russian scientist
Born May 15, 1845, he
studied at the University of Kharkov and then
in Germany In 1870 he was made Professor of
Zoology at Odessa and in 1887 he went to
Paris to work at the Pasteur Institute He
died June 16, 1916 His discoveries are of the
greatest importance in the treatment of
certain diseases, notably cancer and syphilis
They concern chiefly the nature and functions
of the blood Mechnikov advocated sour milk
as an aid to longevity as an aid to longevity

Mecklenburg District of Germany coastline on the Baltic Sea and consists of two little republics, Mecklenburg Schwerin and Mecklenburg Strelitz, Schwerin and Strelitz being their respective capitals The former covers 5068 sq m and the latter 1131 sq m Pop, Schwerin 674,075, Strelitz 95,558

In the Middle Ages Mecklenburg was divided into several petry states, but in 1701 it took its present form, its dukes being princes of the empire In 1815 they were made grand dukes and in 1871 their states entered the German Empire In 1918 the grand dukes abdicated and republics were set up Each is governed by a landtag and a ministry responsible to it Both are members of the leaders! Lederal Republic of Germany

Medal Pieco of metal resembling a coin, but struck to celebrate an event or service Medals were first struck by the Romans and since their time much artistic still has been used in their design. To day they are chiefly made and awarded for services in time of war, a custom which originated in England in the 16th century Medals are awarded to all who have served through a campaign At the end of the Great War over 5 700 000 vistom medals were terred 5,700,000 victory medals were issued to men of the navy, arm, and air force

Other medals, such as the Distinguished Service Medal, reward acts of gallantry and others are given to civilians for brayery in saving life Medals are worn in a certain order of precedence and have distinctive ribbons

Medallion Term applied to a large medal of antique character It has been extended to include a rounded basrelief or a circular design with figures as often met with in early stained glass or mural decoration

Medea In Greek legend the daughter of the King of Colchis She assisted Jason to secure the Golden Fleece and the two were married Later Medea brought about the death of Creusa, who had become the lover of Jason She is said to have murried Acgeus, King of Athens, whom later she tried to poison Euripides wrote a play entitled

Medes People closely associated with the Persians They lived in Asia Minor and later in Persia, where they gave their name to a district called Media Their matters there are People when the manufacture of the control of the control

control motion also the effect of these forces in the Bible (Dan v) Their laws, like those of the Persians, were regarded as unalterable

Medici Famous Italian family Giovanni INICULUI de Medici was a trader and banker in Florence in the 13th and early 14th century He died in 1429, when his great wealth passed to his son, Cosimo In 1424 Cosimo, having been banished, was recalled to Florence and until his death, August 1, 1464, was the real ruler of the republic His son succeeded to his position and soon members of the family became rulers of Florence by right of birth The greatest of them was Lorenzo, called the Magnificent, who fully earned the epithet by the way he spent his great wealth in beautifying the way he spent his great wealth in beautifying the city and encouraging artists and poets He was one of the greatest figures of the Rennissance Italian

In 1492 the Medici were expelled, but in 1512 they were re installed In 1530 Alessandro was recognised by the emperor as Duke of Florence and in 1569 his title was changed to that of Grand Duke of Tuscany Three members of the family ruled until the male line died out in 1737 Two of the Medici became popes as Leo X and Clement VII Other notable members of the house were Catherine and Marie, both queens of France

Medicine Art of healing First practised by primeval man with magico-religious methods for counteracting malignant influences, it developed during ancient Euphrates, Indus and Nile civilisations ancient Euphrates, indus and Nile civilisations into empirical systems making abundant use of remedial herbs. In early Greece rational cures first arose under the Greek physician, Hippocrates c 500 BC, commonly called the Father of Medicine, whose writings influenced medical theory and practice for 2000 years. Anatomical research proceeded, and Galen of Pergamum, in the 2nd century, AD, made still further collections of knowledge which governed medicyal thought. governed medieval thought

The Renaissance gave birth to the chemical teachings of Paracelsus Harvey accomplished the supreme discovery of blood circulation, 1628 There followed the microscope, the development of clinical practice, Hunter's foundation work in experimental and surgical pathology and the advances of Bell, Abernethy, Virohow and others The 19th century witnessed the work of Darwin, Pasteur, Koch and Lusten More recently, proceeding in More recently researches biochemistry, radiology a and Lister bacteriology, biochemistry, and mental disease have produced epoch-making resulta

MEDICINE AS A CAREER The main careers open to members of the medical profession may be listed as follows

(1) General Practice(2) Government Medical Services at Home

and Abroad Public Health Work

(4) Poor-Law Medical Service (5) Psychological Medicine (6) Scientific Research or Teaching (7) Consultants and Specialists (8) Certain other Careers (as Ship Surgeoncies)

It will be seen that the scope is very wide It will be seen that the scope is very wide for the qualified doctor, and the opportunities especially in branches other than General Practice, are increasing Since the Act of 1876, which rendered women eligible to obtain degrees and diplomas, hore

greatest king was Darius, who is mentioned and more women's names have appeared on

the Register of the General Medical Council The disfavour with which women doctors were originally looked upon, both by their male colleagues and by the public is rapidly disappearing, and generally speaking, women are regarded as cligible for nearly all kinds of medical work, excluding the Services of the Crown.

The two main spheres of work in which they are especially finding opportunities are general practice and posts as maternity and child welfare and School Medical Officers under the local authorities There is a special organisation

for Women's Medical Service in India

Before medical practice can begin it is
necessary under Law for the student to have his or her name entered on the Register of the General Medical Council and for this certain medical degrees or other recognised qualifications are necessary (It is advisable also for a student after the preliminary examinations have been taken, to have his or her name en tered on the Students' Register a copy of the regulations can be obtained from the GMC, 44 Hallam Street London, W 1)

The work necessary for a recognised medical degree or qualification falls into three periods (1) A period of about two years at a public or secondary school devoted to the study of Chemistry, Physics, and often

Biology

(2) A period of two years in the dissecting room and laboratories of a university or medical school

(3) A period of three years of clinical study in a hospital

This is the minimum time taken-illness or

failure at examination frequently extends the period After the general degree or diploma has been

taken, specialised courses for further degrees

or special diplomas may be taken

The Medical Course is therefore a long one
and it requires a considerable financial out lay in fees and maintenance before recognised qualifications are obtained It is advisable to obtain full particulars as early as possible— from the GMC or from the British Medical Association (BMA House, 19b Taylstock Square, London, WO 1) The regulations examination syllabuses and fees of the parti cular university or medical school it is pro posed to enter should also be studied before the first examinations are taken

The prospects before the qualified medical practitioner are good. The doctor in general practice has a high social standing and although a good practice must be developed—or capital must be available to purchase a partnership in one—the remuneration is steady and adequate. Thus an income of £1000 per annum may be expected from an established practice.

established practice
The specialist can, of course, command higher fees, and the salaries scale in most of the public services extends above this figure Full particulars of these salaries scales are available

of Alberta, Medicine Hat Canada on the South Saskatchewan River 165 m on the South Sasketchevini River 105 in from Calgary and 660 from Winnipeg There are some manufactures and railway shops and the city is the distributing and trading centre for a large district. It is rich in natural gas

Medicine Man Practitioner of the healing art and and kindred mysteries in primitive culture

term displacing the older "witch doctor," conventionally denotes the professional exerclser of magical powers in cultural stages up to and including the shaman of N Asia, beyond which leech craft and priest craft diverge Usually set apart by long initiation, carrying his mysterics in a medicine bag, wearing a distinctive dress, and sometimes operating in a medicine but, he combines with primitive magic empirical cures and crude surgery, in Airica, America and Melanesia.

Medick (Medicago falcata) Perennial on waste land and dry gravelling or sandy soil in E England The stems are hollow and the stalks, bearing clusters of yellow, or sometimes violet flowers rise from the axils of the leaves which are trifoliate The flat downy seed pods are stickle-shaped or curved A native of Europe the herb is found also in India and parts of Asia Other varieties include the Black medick (M lupulina) and Lucerne (q v)

Medina River of the Isle of Wight It which stands on its estuary and is navigable as far as Newport The eldest son of the Marquess of Milford Haven bears the courtesy

title of Earl of Medina.

Medina City of the Hejaz Arabia. has a large trade done partly through its port, Yanbua, on the Red Sea Here the prophet lived for a time, and here in a magni front mosque, is his tomb Medina was the residence of the early callphs. It is much visited by pilgrims, as it ranks after Mecca, as a holy city. During the Great War, when it was a Turkish possession, it was besieged for a long time, but was not surrendered with for a long time, but was not surrendered until Jan 1919 Later it became part of the new state of the Hejaz Pop 30 000

Mediterranean Sea land sea in the world It has Europe on the N and Africa on the S, while at its E end is Asia It is over 2000 m long At the W end it communicates through the Strait of Gibraltar with the Atlantic Ocean the E end is closed, athough it connects with the Black Sea.
The Nile, the Ebro and the Rhône are the
chief rivers that flow into it The principal
arms are the Adriatic and the Aegean Seas

The Mediterranean contains an enormous number of islands especially in the Aegean The largest are Sicily, Crete and Cyprus.

Malta is important.

Medium Name given by spiritualists to the person used as a chan nel for establishing communication between inquirers of this world and spirits of another sphere

In bacteriology a sterilised nutritive sub-stance used in the culture of germs is known as

a medium

Medlar (Mespilus germanica) Hardy tree of the rose order, indigenous to Greece and W Asia. Long naturalised in Britain, it grows as a much branched spiny tree, bearing solitary white 1; in flowers and roundish; 1 in fruits Spineless varieties, cultivated preferably on whitethern, quince or pear stocks, yield improved fruits, one form being stoneless The Japanese mediar is the Loquat.

Medmenham Village of Buckingham shire It is on the It is on the The Thames, 3 m. from Marlow and is famous for its abbey A Cistercian house was founded here in 1204 Later a private house was built on the site This was the residence of Sir Francis Dashwood (1708-81), and is known because here his Hell Fire Club, a mock order of Franciscans, met and celebrated their blasphemous rites

Medusa In Greek mythology, one of the three Gorgons The name is also given to a free-swimming jelly-flah resembling a bell or parachute Ranging from microscopic to forms 6 ft across, medusae

microscopic to forms 6 ft across, medusac develop pendent filaments bearing organs for stinging and grasping the prey which the tentacles convey to the mouth Several species abound round British coasts the largest are tropical See Gorgons

Medway River of England It rises
Microscopical Street and Sussex by two small streams and flows through Kent to the Thames It is 70 m long, and on its banks are Tonbridge, Maidstone and Rochester Its mouth forms a fine estuary where are Sheerness and Chatham Sheerness and Chatham

Meerschaum Soft porous hydrous magnesia silicate Ob tained from Asia Minor, Greece, Morocco and elsewhere, it is used chiefly, after steeping in wax, for pipe bowls and cigar-holders

Meerut City and district of British India The city is 40 m from Delhi and is an important military station It was the place where the Indian Mutiny began in 1857 Pop (1931) 136,709

The district is extremely fertile, largely owing to the irrigation canals. Its principal crops are wheat, pulse, millet, sugar-cane and cotton. Owing to its comparatively clevated position it is one of the healthiest places in the plains of India

Megalithic Age Archaeological term for the culture period characterised by the building of massive structures and monuments, and coinciding with the later Stone and Bronze Ages In Britain the remains of the great stans civeles at Avenue and Stonebong and the numerous barrows, tumuli and carth-works scattered over the country testify to the skill and industry of the megalithic builders

Megalomania Delusion of grandenr As a form of insanity it may involve the belief that the sufferer is a king, millionaire or endowed with divine powers it sometimes attends general paralysis The word is often used untechnically for the exaggerated idea displayed by some persons of their social unportance or regular persons of their social importance or mental Power<sup>q</sup>

Megalosaurus Extinct carnivorous Dinosauria Fossil remains are found in Jurassic and Cretaceous formations in Europe, Asia and N America. It was about 20 ft Asia and N America. It was about 20 ft in length and assumed the erect posture support being given by its long thick tail. The hind limbs were large and powerful and the teeth serrated and laterally compressed.

Megaphone Sound amplifier For trumpet is held to the mouth For hearing purposes there is an ear trumpet which magnifies distant sounds for capable ears and ordinary counts for the description.

Megara Ancient city of Greece It stood near the sea about 30 in from Corinth A colony from Megara founded a city of the same name in Sicily

Megarasided with Sparta in the Peloponnesian War The modern village with some 6400 inhabitants is mainly composed of people of War Albanian stock

Megatherium Extinct giant sloth its remains are found in Pleistocene deposits in S America Probin Pleistocene deposits in S America. Probably it was contemporaneous with early man. It was about 20 ft in length, herbivorous in habit and resembled the anteaters in respect of limbs and backbone, and the sloth in skull and teeth. In 1897 the remains of the skin and bones of a species of megatherium were found in a Patagonian cavern.

Megiddo Former city of Palestine It stood in the plain of Esdraelon, 18 m from Nazareth, and is several times mentioned in the Bible Its fortifications were restored by Solomon (2 Kings, ix.) It was a flourishing city in Roman times, but had decayed when on Sept. 19, 1918, British troops took possession of it.

Megrims (or Blind Staggers) Disorder frequently occurring in warm weather and due to conoccurring in warm weather and due to con-gestion of the blood vessels in the brain When straining uphill with a heavy load and tight collar a horse may suddenly exhibit symptoms of giddiness, with loss of will-power, noisy breathing, quivering nostrils and tend-ency to fall

ency to fall

Nehemet Ali Turkish soldier He
Niehemet Ali was born in 1769 in
Albania He became a tobacco dealer, then
a soldier, and took a leading part in fighting
against Napoleon in Egypt in 1798 At the
head of a force of Albanians he brought Egypt
under his control and was made viceroy and
pasha by the sultan He crushed utterly the
Manaclukes, formed a regular army and did
much for the material prosperity of the
land He conquered a good part of Arabia
and part of the Sudan and helped the Turks
in their struggle with the Greeks In Egypt
he remained powerful until his mind gave way
in 1848 He died Aug 2, 1849, and was
succeeded by Ibrahim Pasha, his adopted gon

Meighen Arthur. Canadian poli-June 16 1874, he was educated at the Uni-versity of Toronto For a time he was a teacher but later became a barrister in Mani-toba In 1908 he was elected to the House of Commons at Ottawa, and in 1913 was made Solicitor General in the Conservative ministry In 1917 he became Secretary of State, and a little later Minister of the Interior In July, 1920, on the resignation of Sir Robert Borden, he succeeded as premier, but he resigned on his party's defeat in 1921 He was again premier for a few months in 1926, having in the meantime been leader of the opposition On leaving office he took up an important business appointment. business appointment.

Meissen City of Saxony It stands on the Elbe, 15 m from Dreeden Its castle is one of the finest in Germany The city has some industries and an agricultural trade, but is chiefly famous for its china This was first made here in the 18th century, and the state porcelain factory is one of the sights Pop 46,000

Meissonier Jean Louis Ernest French artist Born at Lyons, Feb 21, 1815, he studied art and soon began to paint His best works are historical and emil-historical, and there are several in the

Wallace Collection, London "Soldiers," In 1918 she was made DBE I "Gambling" and "Nappleon I and his published Melodies and Memories Staff" may be mentioned He died in Paris, Feb 23, 1931 Jan 31, 1891

Meistersinger Professional poet of the Middle Ages Melstersingers were members of gulds of musicians and went about the country sing ing Some of them were connected with courts, but later they became more closely associated with the life of the people There were guilds in many German cities, and at Ulm one lasted until 1839 Wagner aroused interest in their songs by his opera Die Meisteranger von Nürnberg

Wiekong River of Asia It rises in to the China Sea From Tibet it enters China, and later forms for some distance the border between Slam and Indo-China It enters the sea by two great arms, one of which has five mouths Owing to its many rapids the river is not much used for navigation

Melampus In Greek legend the first mortal who obtained the powers of a prophet He reared two serpents, and from them received the gift of understanding the language of beasts and birds. From Apollo he learned something about medicine and he cured the daughters of the King of Argos of their madness

Melancholia Form of insanity marked by great depression simple melancholia is a common form of letharry and listlessness, sometimes with hallucinations and eleeplessness, not neceshallucinations and sleeplessness, not necessarily needing treatment in a mental hospital. In acute forms, observable in maturer years, the depression becomes intensified, this may pass into active excitement or into stupor, sometimes leading to suicide. A condition in which excitement and depression occur, not necessarily alternately, is called manic depression to the condition of the condition depressive insculty

Metanchthon Philip German scholar Feb. 16, 1497, at Bretten in Baden, his real name was Schwarzerd Educated at Heidel berg, he became Professor of Greek at Witten berg, where he was Luther's fellow worker In 1521 he published Loci Communes, the first great Protestant work on dogmatic theology The Augsburg confession was composed by him. He attended the Diet of Worms, and atter Luther's death attempted to recordly all the parties of the Reformation and even the Reformers and the Roman Catholics. He died at Wittenberg, April 19, 1560

Wielanesia Group of islands in the profile Ocean They lie to the W of New Guinea and Australia, and include the New Hebrides, New Caledonia, Solomon, Gilbert and Ellice Islands and others Most of them and Ellice Islands and Solomon, Gilbert and Ellice Islands others Most of them are British, but France owns a number Those that were German administered owns a number Those that were German before the Great War are now administered by Australia and New Zealand under mandate from the League of Nations.

Welba Dame Nellie Name taken from her birthplace, Melbourne, by the Australian singer Helen Porter Mitchell. A daughter of David Mitchell she was born May 19 1859 In 1882 she married Charles Armstrong. Having shown exceptional talent as a singer, she studied in Paris and became a professional. Her first appearance was in Brussels in 1887, and for the next 30 years the was one of the world's leading singers

In 1925 she She died

Melbourne Town of Derbyshire It the LMS Rly It has some textile manufactures and is a market gardening centre Pop 3700

Melbourne Capital of Victoria, Australia It is situated on Port Phillip, at the mouth of the Yarra, a site selected about 1837 and named after the then Prime Minister It is noted for its parks, public gardens and flower-decked streets Collins Street, 14 m long is famous Here are the Parliament Buildings and the two cathedrals It has two broadcasting stations (31 55 M, 5 kW and 31 28 M, 20 kW) Other important buildings are Flinders St. RIV Station, the public library, art gallery and museum, the university and the law courts The city is connected by rail with neigh bouring States and has an excellent electric suburban railway system

suburban rallway system
Population (including the 23 suburban areas) (1931), 1 030,750, over 57 per cent of the state

Melbourne William Lamb, 2nd Vis Born March 15, 1778, he was educated at Eton and Trinity College, Cambridge, and entered Parliament in 1806 He was Irish Secretary from 1827 28, and Home Secretary in 1830 Prime Minister from 1835 41, his influence over the young queen, Victoria, was great, and he impressed on her the sound constitutional principles to which she adhard throughout principles to which she adhered throughout her reign. He was unable, however, to restrain her from showing a partisanship over Court appointments, which led to the fall of the Whig

appointments, which led to the fall of the Whig government and Melbourne's resignation in 1841 He died Nov 24, 1848

Meichett Alfred Moritz Mond, Baron dustrial magnate Born at Farnworth Lancashire, Oct. 23, 1868, the son of Dr. Ludwig Mond, F.R.S., he was educated at Cheltenham College, St John's College, Cambridge, and Edinburgh University. Called to the bar in 1894 he entered his father's firm of Brunner Mond & Co, chemical manufacturers, and became identified with a number of other important industrial concerns, later of other Important industrial concerns, later forming the great Imperial Chemical Industries His writings on industrial and political problems were re issued in Questions of To day and To-morrow. 1912 As a politician he was Liberal M.P. for Chester, 1908 10, Swansea, 1910-22, and seceding over the land policy of 1926 became Conservative in 1920 and represented Carmarthen, 1924 28 He was First Commissioner of Works in the Lloyd George Ministry, 1916, and Minister of Health, 1921-22 Made a baronet in 1910 a Privy Councillor in 1913 and a baron in 1928, and F.R.S. He died Dec. 27, 1930. of other Important industrial concerns, later died Dec. 27, 1930.

Melchizedek King and priest of Solem. He is men-

tioned in Genesis xiv 18

Meleager in Greek legend a great
hunter He was a son of
Oeneus and Althaea, and was a king of Caly
don He went with the Argonauts on their
expedition His great exploit was to kill the boar which the goddess Artemis sent to ravage Actolia

Melinite Disruptive explosive It is of the trinitrotoluene type used in France, and resembles in composition the

British explosive, lyddite It consists essentially of a mixture of trinitrotoluene and picrio acid (trinitrophenol), the compound being less sensitive and dangerous to handle and having a lower melting point than its components

Melksham Urban district and market town of Wiltshire It stands on the Avon, 98 m from London, on the GW Rly The industries include flour milling Pop (1931) 3881

Mellon Andrew William American Pittsburg, March 24, 1855, he became like his father, a banker, and was closely identified with some of the industries of Pennsylvania A republicun in politics, he was made Secretary to the Treasury in 1921, and held that post until 1932, when he was appointed Ambassador to the Court of St James's He had a good deal to do with the negotiations about European debts, and in 1931 expressed the opinion that Great Britain was bearing an undue proportion of the burden He was ambassador in Gt Britain, 1932 3

Melocactus Genus of perennial succepts of the cactus order, natives of Mexico, W Indies, Brazil and Colombia It is also called melonthistic The swollen melon-shaped stems, vertically ridged, are surmounted by evandrical caps clothed with woolly hairs and spines, bearing rose red tubular flowers

Melodrama Originally a play in duced to give a more dramatic or emotional

Melodrama Originally a play in which music was intro duced to give a more dramatic or emotional effect Melodramas were first produced in France in the 18th century, an example being Rousseau's Pyymalion. To day the word is used for a play which has a strong emotional appeal of a popular kind Examples are The Silver King, played by Wilson Barrett, and The Sim of the Cross In London, the Old Surrey and Adelphi and the new Lyceum theatres were long regarded as special homes of melodrama

Melon (Cucums melo) Annual trailing genous to S Asia Cultivated from antiquity, it provides important crops in all tropical and sub-tropical lands, being raised for some, European markets under glass The size of the fruit, usually globular, ranges from an olive to a giant gourd The edible flesh, white, searlet or green, is the pericarp's inner layer Water melons, the fruit of the allied Citrullus vulgaris, are usually larger and coarser fleshed

Melrose Burgh of Roxburghshire It stands on the Tweed, 37 m from Edinburgh, on the LNE Rly The abbov, once the greatest in Scotland, was associated later with Sir Walter Scott Thoruined church contains some magnificent stone work and windows, and in it are some interesting tombs. It is much visited by tourists. On the other side of the Tweed is the suburb of Gattonside. Pop. (1931) 2052

Melton Mowbray Market town trict of Loicestershire It is 14 m from Leicester and 102 from London and is reached by the LMS Riy Melton is famous for its pork pies, and equally well known as a centre for the Quorn, Cottesmore and Belvoir hounds It has an agricultural trade Pop (1931) 10 437 Melville Island, bay and sound of the Arctic regions It is 200 m long and covers about 20,000 sq m It was discovered in 1819 Molville Sound separates

the island from Victoria Island It is 240 m. long An opening of Baffin Bay is called Melville Bay Melville Peninsula' is a part of the Canadian mainland It is an eastward extension of the NW territories and is to the N of Hudson Bay It is nearly 300 m long and covers about 30,000 sq m

Melville Andrew Scottish theologian and leader of Presbyterian thought He was born at Baldovie, Forfarshire, Aug 1, 1545 After teaching in Franco and Switzerland he became Principal of the College of Glasgow (1574), and helped to draw up the Presbyterian Second Book of Discipline After preaching against absolute authority and "remonstrating" with James VI he was imprisoned in the Tower for four years On his release he left England and resumed teaching in Franco He was several times Moderator of the General Assembly He died about 1622

Melville Hermann American author and novelist Born Aug 1, in 1819, in New York City, he went to sea when 17, in a whaler, deserted twice, was captured by cannibals in the South Seas and eventually loined a men of war Later he returned to Boston in 1814 and began writing He published Typec (1840) and Omoo (1847), tales of life among the cannibals In 1850 came White Jacket, embodying his experience as a sailor, and by its force, largely abolishing corporeal punishment in the navy In 1851 he published his masterpiece, Mohy Diel, a tale of the sea and whaling He died Sept 27, 1891

Memel or Klaipeda Territory and seaport of Lithuania On the Baltic, near the N end of the Kurische Hafl, the town is 74 m from Konigsberg Before the Great War, Memel was a province of E Prussia, but by a convention of May, 1924, it was constituted a unit within the sovereignty of Lithuania, with a certain measure of administration and financial autonomy Nazi feeling in Memel, however, is strong as the election of 1935 showed In Sept, 1935, Herr Hitler invited the League of Nations to examine the Memel position "before events that would be regretted" Poland uses the port The harbour is a fine one, and large quantities of timber and grain are handled There are many important industries, including shipbuilding-yards, foundries, chemical works, etc. Area of territory, 943 sq. m. Pop territory, 146,000, town, 37,400

Memline Hans Flemish religious painabout 1430 He had an original style, powerful yet simple He painted beautiful pictures of the Virgin, and pandramic pictures of the life of Christ and St John His "Mystical Marriage of St Catherine" and "Shrine of St Ursula" are in Bruges, where he died Aug 11, 1494

Memnon in Greek mythology the son was very beautiful and was beloved of Zous. He helped the Greeks in the Trojan War and was killed by Achilles

Memory Power of retaining and reproducing mental impressions. It varies very much in different persons, and there are on record cases of persons who possessed extraordinary powers of memory. Several theories have been put forward about its origin and nature, it certainly owes a good deal to the association of ideas.

Memory consists of four processes 'learning, retention, recall and recognition, and of it there are three kinds—mechanical, which depends on the grouping of ideas in a certain order by repeating the words that represent them, artificial, by the deliberate association of certain ideas with certain words or symbols, and logical, or the association of ideas

Many schemes have been put forward for improving the memory and some have pro

duced valuable results

Memphis Ancient city of Egypt. Its site is on the Nile, 14 m from Cairo It became a splendid city and was for a time the country's capital It con tained magnificent buildings, and a colossal statue of Rameses II The city, of which some rules remain, was named after its founder, King Mens. King Menes.

City and river port of Ton-Memphis City and river port of Ton-nessee It is on the Missis-sippi, and is the largest city in the state, being a great centre for the sale of cotton Pop 253,000

Menagerie Collection of wild animals maintained for study or exhibition accompany circus shows Stationary collections have been formed by conquering monarchs since early times The collection kept archs since early times The collection kept at the Tower of London was removed to the Zoological Gardens in 1831 It received con tributions from Queen Victoria's private menagerie in 1801, and now has an open air menagerie at Whipsnade (q v) See Zoologi-CAL GARDENS

Menai Bridge Urban district of the Menai Strait, near the end of the suspension bridge and less a harbour and a little shipping Pop (1931) 1675

Menai Strait Sea passage of Wales. It is between Carnarvonshire and Anglesey, and is 14 m long and 1 or 2 m wide Two bridges cross the strait. To 2 m wide Two bridges cross the strait. The suspension bridge which carries a road was opened in 1826 The tubular bridge, the property of the L MS Rly, was opened in 1850 It is 1840 ft. long

Menander Athenian poet. He lived and won a reputation by his comedies, of which only fragments survive, including some found in Egypt in the 20th century

Mendeleef Russian chemist. Born in 1834, he observed periodicity in the change of properties of elements when tabulated according to atomic weights. This "periodic law" led to the discovery of new elements He died Feb 2, 1907

Wendelism Term applied to a theory of the experiments made by the Abbé Gregor Mendel, an Austrian scientist (1822 84) Vendel experimented with the breeding and hybridisation of the culinary pea, and from the results of his investigations formulated certain laws of heredity His work has been carried further during the last 30 years, and his generalisations are found to hold good for plants and animals in general for plants and animals in general Mendel found that certain characters are inherited by hybrids, and these he termed dominant, others were not shown by hybrids but occur in their offspring, and these are known as rocessive.

Mendelssohn-Bartholdy

Jakob Ludwig Felix German composer Born Feb 3, 1809, at Hamburg, he was the grandson of the philosopher, Moscs Mendels sohn, and son of Abraham Mendelssohn, a banker He was baptised and educated as a Christian, his father adding the surname Bortholdy to the family name He was broadly and thoroughly educated at home A precoclous first appearance as composerplanist in 1818 led to an uninterruptedly successful and happy career In 1826 he composed the music for A Midsummer Night's Dream. In 1829 he visited London and Scotland From 1833 onwards he held various conductorships, and in 1843 founded Leipzig Conservatoire In 1846 he conducted his oratorio Elijah at Birmingham, and died on Nov 4, 1847, having achieved a consummate artistry in every form of music except banker He was baptised and educated as a

Mendip Hills Range of hills in Somer-near Wells to the Bristol Channel The highest point is Blackdown (1068 ft.), and the range includes the Cheddar Cliffs

Mendoza Daniel English prize He was born of Jewish parents in London in 1764, and soon made a name as a fighter In 1787 he beat Sam Martin, and he was successful in encounters with other puglists, but in 1795 he was beaten by John Jackson He continued was beaten by John Jackson He continued his career until 1820, when he was beaten by Tom Owen He died Sept. 3, 1836

Menelaus Greek hero He was the brother of Agamemnon, and became the husband of Helen. In this way he secured the throne of Sparta During his absence, Paris visited his court and carried off his wife The Trojan War was the result Menelaus went to the war and when Troy was taken, recovered his wife

Menelek II. Emperor of Abyssinia Born at Choa, Aug 18, 1844, he claimed to be a direct descendant of Solomon and the Queen of Sheba. Founder and organiser of the modern Abyssinian state, he made war against the Italians to preserve the independence of his kingdom, and defeated them at Adowa. In 1896 the absolute in dependence of Abyssinia was recognised Towards the end of his reign he maintained very friendly relations with both England and France He died at Addis-Ababa, Dec. 12, 1913

Ménière's Disease Ear complaint by sudden attacks of giddiness and ringing of a high musical note, followed by deafness Named from the Fronch physician who de scribed it, 1861, it is usually caused by escaped blood in the labyrinth, due to intense heat or certain diseases. Potassium iodide or bromide is often weed and in the labyrinth of the promide it of the promide in the promide i is often used remedially

Menin Town of Belgium It stands on the Lys, 10 m from Ypres It was taken by the Germans in Sept. 1914, and there was constant fighting around it during the next four years

The Menin Gate is a memorial at Ypres to the British who fell in the war It is at Ypres on the Menin Road, hence its name. Designed by Sir Reginald Blomfield, it is in the form of a Roman arch. It was unveiled on July 24, 1927 on July 24, 1927

Meningitis Inflammation of the meninges, the membranes inhad a tonnage of 19,671,675 gross tons See vesting the brain and spinal cord It may arise from injuries to the brain, tumours, displayed to the brain tumours of the mening of Great Britain and Iroland had a tonnage of 19,671,675 gross tons. See cased adjacent parts or sunstroke, or be excited by the bacterial causes of other fevers present When, as frequently with children, it is due to the tubercle bacillus, it is called tubercular meningitis, acute hydrocephalus or water on the brain A malignant type, due to another specific micro-organism, is called epidemic cerebro-spinal meningitis, or cerebro spinal fever  $(q \dot{v})$ 

Mensuration Branch of mathematics It deals with the measurement of lengths, areas and volumes, and the formulation of rules for calculation In general the term mensuration is used only for the measurement of surfaces, solids and regular figures, that of irregular figures coming under other branches of mathematics

Mental Defective Term used for one whose mind is not fully developed, but who is not insane
Of late years great attention has been paid
to the training of mental defectives For
mentally defective children special schools
have been opened as have hospitals and other institutions Proposals for sterilising mental defectives have been put forward, but as yet very little has been done in this direction.

Menthol White crystalline substance obtained from oil of peppermint It comes chiefly from Mentha argensis or piperascens and glabra, growing in Japan and China Menthol is met with either in the form of fine needle-like crystals or in moulded masses, and is used as a local anaesthetic

Mentmore Village of Buckingham-shire It is 4 m from Here is the magnificent scat of the Earl of Rosebery, formerly the property of the Rothschild family

Mentone Watering place of France It is on the Riviera, 13 m from Nice Beautifully situated and with a delightful climate, it has many other attractions for visitors including promengace tions for visitors including promenades, gardens and a casino Pop 18,000

Mentor Greek hero Odysseus left him to look after his son Telemachus and his estates when he went to the Trojan War Thus the word has become a synonym for a wise counsellor

Mephistopheles In German legend a familiar spirit "not leving light," with whom Faust made a pact bartering away his soul In Marlowe's tragedy he is the fallen angel of theology combined with the old German kobold Goothe, influenced by Lessing, changed him into an evil principle with which man's spirit eternally conflicts. See FAIST eternally conflicts. See FAUST

Mercantile Marine Term used for the shipping engaged in commercial purposes In Great Britain it is controlled by the Board of Trade, which administers the laws that deal with it The Board has a mercantile of Trade, which administers the laws that deal with it The Board has a mercantile marine consultative branch at Great George Street, London, S W 1 To unite the service there is a Master of the Merchant Navy, an office created in 1928 and held by the Prince of Wales On Tower Hill London, there is a memorial to the 12,649 officers and men of the merchant service and fishing fleets who lost their lives in the Great War In 1932 the

THE MERCHANT NAVY. As a career the training of a Navigating Officer normally takes place either partly in a recognised Training Ship or Nautical Training College, or by apprenticeship wholly at sea

In the former case training may begin at 13 years or earlier, and continues until 16 or Evidence of a satisfactory standard of 17 Evidence of a satisfactory scandard of education is required on entry, and after a minimum period of two years' training a certificate is granted to the successful candidate carrying exemption from one of the four years required for the Second Mate's Certificate Application should be made as below for admission as an apprentice. The fees for admission as an apprentice. The fees payable vary, but are of the order of £100 to £170 per annum

In the latter case the boy should continue his general education until 16 or 17, and apply to be admitted as an apprentice to the shipping companies selected or to the Shipping Federation, Ltd, 52 Leadenhall Street, EC 3, through which body a number of the companies customarily recruit. No written examination is required—inquiries take the form of personal interview. It should be severe or personal interview. It should be remembered that some physical defects, especially defective evesight, will definitely disqualify a boy when he comes to take the Second Mate's Certificate.

The Board of Trade issues a model form of indenture for apprenticeship Full parti-culars of the examinations necessary for Board of Trade Cortificates during and after the period of apprenticeship may be obtained from the BOT Regulations (Examination of Masters and Mates)

The prospects may be studied from the rates of pay which will be supplied in detail by the General Secretary of the National Maritime Board, 3/4 Clement's Inn, London, WC 2, from The Shipping Federation, or from firms of shipowners Most officers continue at sea for the whole of their professional life, but there are a few shore consistences.

life, but there are a few shore appointments, with salaries ranging up to £1500 per annum Although a seafaring life may not offer a fortune, it does offer opportunity for saving, a good life and prospects of seeing something a good life and prospects of seeing something of the world, while modern conditions for apprentices are very different from those of the old exacting days of salling ships. There is little home life, of course, and at present the supply of Officer and Deck ratings is rather more than equal to the demand with resulting unemployment

Gerardus Flemish Mercator later called Mercator, was born March 5, 1512, and educated at Louvain He was employed by the Emperor Charles V to draw employed by the Emperor Charles v warms maps for military purposes, and later mode a survey of Flanders. In 1552 he settled at Duisburg and the rest of his life was engaged in drawing maps. In 1568 he first used the system of projection, parallels and meridians at right angles since known by his name Mcreator died Dec 2, 1594 His maps were published in an atlas, a name for which he

Company first chartered, 1393, is London's premier livery company. The hall in Cheap side and the adjacent chapel replace a hospital commemorating Thomas & Becket's birthplace, its school is now the Mercers' School, Holborn The company also governs 8 Paul's School, Hammersmith Corporate income, £53,000, trust income, £58 000, membership, 221

Mercerisation Name given to a which a silky lustre is given to cotton fabrics. The process was invented by John Mercer (1791 1866), whose first patent was taken out in 1850. The yarn is treated with caustic soda solution of a particular strength.

Merchant Taylors London livery It is one of the 12 great companies and dates from about 1300 It has a large income and a magnificent hall in Threadneedle Street, London, E.C. The company maintains some

London, E C The company maintains some almshouses at Lee, London S E

The Merchant Taylors School was founded by the company in London in 1561 It was in Suffolk Lane until 1873 when it was moved to Charterhouse Square In 1931 it was decided to build a new school at Berkhampsted, and an extensive area of land was bought for the purpose The school, which has a close connection with S John's College, Oxford, has accommodation for about 600 boys, all day pupils

There is also a Merchant Taylors' School at Great Crosby, Liverpool This was founded in 1618, and until 1910 was managed by the Merchant Taylors' Co The buildings were

enlarged in 1913

Anglo-Saxon kingdom of Eng-Mercia find It came into existence about 600, and was in the centre of the country between the Thames and the Trent, excluding At one time it included London Anglia It became independent when Penda was its king in the 7th century Under Offa, who died in 795, it was the most powerful of the English kingdoms, but early in the 9th century was conquered by Wessex Its chief towns were Lichfield, Repton and Tamworth

Mercier Besiré Joseph. Bolgian prelate educated in Malines and ordained in 1874, afterwards studying at Louvain and Paris Professor of Philosophy in the University of Louvain, 1882 1006, he was then made Archbishop of Malines and Primate of Belgium. In 1907 he was created a cardinal the Germans entered Belgium in Aug, 1914, Mercler boldly upheld the rights of his country He took a leading part in the conferences with representatives of the Church of England hold in Malines between 1920 and 1923 and died in Brussels, Jan 23, 1926 A noted philosopher, Mercier edited until 1906 La Revue Néoscholaslique, and in his writings sought to adapt the philosophy of S Thomas Aquinas to the conditions of the modern world. He published his War Memories in 1920

Mercury Smallest of the planets and the nearest to the sun, from which its mean distance is 36 million miles Its year is a period of 88 solar days in which time it also rotates upon its axis thus bringing time it also rotates upon its axis thus bringing orbit of Mercury is eccentric and subject to varying porturbations technically known as elongations. The diameter of the planet is

2702 miles and its density about three fifths that of the earth

Mercury Metallic element. Its atomic Weight is 200 61, symbol Hg, and melting point -39 5°C Commonly known as quickeliver, it occurs in a fluid state and is found as small globules scattered through the gangue of a vein or as an amalgam It is extracted chiefly from the with silver native sulphide, cinnabar which occurs in Spain, California and Idria in Yugoslavia. Spain, Cantornia and Idria in Tugoslavia. Morcury is a heavy silver white metal which readily combines with gold silver and many other metals to form amalgams. It is used in the extraction of gold the construction of thermometers and barometers, for silvering mirrors and in medicine

Mercury Roman god of trade, corresponding to the Greek god Hormes He was regarded by the Roman traders as their patron. He was also the herald of Jupiter and for this reason the word is used for a journal or newspaper, eg, the

Is used for a John Leeds Mercury See Herenes

Mercy Sisters of Order of women Catholic Church.

The Roman Catholic Church.

The Dublin in 1831, and has Order of women in was founded in Dublin in 1831, and has a number of houses in England, the USA. and elsewhere Its members take the usual yows and live in convents. They look after vows and live in convents They look after women and girls in trouble or poverty, and maintain homes and orphanages

Mere Geographical term for a large pool or lake The word occurs as a suffix in such names as Windermere and Buttermere In some cases meres are formed by subsidence of the strata due to dissolution of the rocks, as in Cheshire, where the removal of rock salt has caused the formation of broad, shallow meres.

George British novelist and poet. Of mixed Irish Meredith

and Welsh origin he was born in Portsmouth, Feb 12 1828 Educated in Germany he was articled to a solicitor in London in 1844, but abandoned the law for journalism He was for 30 years literary reader to Chapman and Hall He died on May 18, 1909

Although never very popular his work shows great beauty of word and phrase, and his descriptions of scenery and emotion are varied and vivid His poetry, too, reveals much beauty but is intricate and lacks melody Among his novels are The Orden of Richard much beauty but is intricate and lacks melody Among his novels are The Ordeal of Richard Feverel (his most popular work), 1850, Adventures of Harry Richmond, 1871, Beauchamp's Career 1875 The Egoust, 1879, The Tragic Comedians, 1881, based on the tragody of Lassalle, and Diana of the Crossways 1885, recalling the story of the Hon Mrs Norton His verse includes Modern Love and Poems of the English Roadside, 1862 and Poems and Lyrics of The Joy of Earth, 1883

Meridian In astronomy the great circle which passes through the poles of the celestial sphere, or the point at which sun or star attains its highest altitude On the earth's surface a meridian is a great circle passing N and S through the poles. Degrees of longitude are numbered from a meridian passing through Greenwich

Mérimée Prosper French novelist. 1803 he entered the civil service and in 1863 became a sentter He belonged to the Realist School, but wrote in a style as exquisitely polished as it was precise He is best known to English readers perhaps for his Colomba, so familiar to school-children learning French and his delightful Carmen He also wrote a Chronique du Rèque de Charles IX and some historical and archaeological works. His Lettres d'une Inconnue and Lellres à une autre Inconnue give an amusing picture of society during the Second Empire in France. He died at Cannes, Sept. 23, 1870

Ecpt. 23, 1870

Merino Spanish name for a breed of sheep producing fine white wool Imported by Louis XVI to Rambouillet, 1783, that and other improved breeds have reached S Africa, Australia, New Zealand, Argentina and the U.S.A The word also denotes dress goods of finest wool, but, in hosiery, cotton and wool fibre mixtures, as distinct from all-wool varues.

distinct from all-wool yarns.

Merionethshire County of Wales Merionethshire Between Caemaryon and Dendigh on the N and Montgomery on the S and E, it covers 660 sq m The Deautiful scenery includes Cader Idris, the Berwyn Hills and Lake Vyrnwy. The valleys of the upper Severn and the Dovey are specially pictures one Dolgrelly is the county town. picturesque Dolgelly is the county town, on the coast are Barmouth, Towyn and Harlech The soil is poor, much of it fit only for sheep There are slate quarries Pop (1931) 43,198

Merit Order of British order Founded in 1902, its membership is limited to 24, but it gives neither title nor precedence. The letters O.M. signify membership An Indian order of merit was founded in 1837 for native officers and soldiers, and there are similar orders in several European countries

Merlin Traditional Welsh bard and sooth-sayer His shadowy story, turned into a romantic myth by the 12th-century Geoffrey of Monmouth, represents him as an enchanter of mirroulous birth associated with the cycle of Arthurian romance

Merin (Falco aesalon). Small bird of prey inhabiting Europe and Asia The smallest of British falcons, 10-12 in long, the male plumage is bluish-grey above, blushered below, the tail being black-banded; the female is brown. Chaucer mentions their use for flying at larks. The wool lined ground nest shelters 4-6 brief are executed. shelters 4-6 brick-red eggs.

Mermaid Tavern Inn that for-Cheapside, London. Here Shakespeare, Ben Jonson and others of their circle are supposed to have met. It stood near Friday Street, and was destroyed in the fire of 1666.

Meroe City of Ethiopia and a district of the Sudan The district is almost surrounded by the Bine Nile and the Atbara. The city stood near Shenli on the E bank of the Nile Just before the opening of the Christian cra it was the capital of Ethiopia Excavations conducted by John Garstang have uncarthed remains of temples, pyramids, etc., which show evidences of Fryptian and Greek culture

Merovingians Line of Frankish They began to rule about 500 in the person of Clovis and remained on the throne until 751 In that year Pepin deposed Childerlo III, and the Merovingian kings were succeeded by the Carolingians. The name is from Merovech,

MP for Rusholme since 1924, he was Recorder M P for Rusholme since 1924, he was Recorder of Wigan, 1920-28, and Solicitor General, 1928-29 He was knighted in 1928 and in 1931 became Solicitor-General in the National Government In 1933 he was appointed President of the Probate, Divorce and Admiralty Division in succession to Lord Merrivale Merriman Henry Seton Name taken by the English novelist, Hugh Stowell Scott He was born at Newcastle-on-Tyne, May 9, 1862, and educated at Loretto He entered business life in London but soon gave his whole time to literature, and died Nov 19, 1903 Among his books are With Edged Tools, The Soucers, Roden's Corner, Barlasch of the Guard, The Isle of Unrest and In Kedar's Tends

Mersea, an urban district, and East Mersea
Wiersey

Niersea

Island of Esset, 8 m from A causeway connects it with the mainland It is 5 m long and about 2 wide The chief centres are West Mersea, an urban district, and East Mersea

Wiersey

River of England It rises

Mersea, an urban district, and Last Mersea

Mersey River of England It rises
tween Lancashire and Cheshire to the Irish
sea Its total length is 70 m The estuary,
16 m long, is a great shipping area On it,
in addition to Liverpool and Birkenhead, are
Rupener, Wellsey Rootle Port Sunject in addition to Liverpool and Birkenhead, are Runcorn, Wallasey, Bootle, Port Sunlight and several watering places, among them New Brighton and Seaforth The Manchester Ship Canal joins the estuary at Eastham and underneath the river are tunnels serving Liverpool and Birkenhead Continual dredging keeps the channel clear for the great liners. The docks at Liverpool and Birkenhead are controlled by the Mersey Docks and Harbour Rogged.

Board

The Mersey Tunnel for vehicular traffic between Liverpool and Birkenhead was opened by King George V in July, 1934

Versey Viscount English lawyer.

Mersey Viscount English lawyer. Born in Liverpool, Aug 3, 1840, John Charles Bigham was educated there He became a barrister and soon and abroad won a reputation by his skill in conducting commercial cases From 1895-97 he represented a Liverpool division in Parliament In 1897 he was made a judge, and in 1909 he became President of the probate, divorce and admiralty division. In 1910 he refired, but he was chosen to inquire into the wrecks of the Tilanic and the Lustiania, and served the state in other ways. In 1910 he was made a baron and in 1916 a viscount. He died Sept. 3, 1920

Merthyr-Tydfil Borough and marganshire It stands on the Tan, 24 nules from Cardiff and 184 from London, on the L M.S. and G W. Riys. The borough includes Dow-lais Plymouth and Cyfarthfa The chief industries are coal mines and iron and steel works. Pop (1931) 71,099.

Werton District of London. It is near Wimbledon, on the S Riv, and is now a residential area. In 1236 a great council was held here.

Merton College, Oxford, founded by Walter de Merton, was first at Malden in Surrey, but was removed to Oxford in 1274.

Meshed Town of Persia Capital of a from Herat, is surrounded by walls and has a considerable trade. The magnificent mausoleum of the Iman Riza son of All, is visited yearly one of their early princes

Merriman Sir Frank Boyd English considerable trade The magnificent mausoleum in 1880, and educated at Winchester, he was called to the Bar in 1904, became a K C and called to the European War. Comervative force Pop 85,000 Mesmer Friedrich Anton German physician. Born in Baden, May 23, 1733, he studied medicine in Vienna In 1766 be published a book called Influence of the Planets on the Human Body, and later he met with much success when he treated his patients with much success when he treated his patients with much success when he treated his patients. with what is now called hypnotism He died

at Meersburg, March 5, 1815

Mesmerism Method of sending a person into a trance or sleep by the use of suggestion and movements of the hands It was called after Friedrich Mesmer, who used these methods and other aids, such as a darkened room hung with mirrors and filled with scents See HYPNOTISM

M'esopotamia Region of Asia, corres the basin drained by the Tigris and the Euphrates It is bounded by Persia, Turkey, Syria and the Nejd, having the mountains of Armenia and Asia Minor to the north and the Persian Gulf to the south The northern parts are undulating and congress on he stroyn there are undulating and crops can be grown there, but south of Bagdad is an alluvial plain, 35,000 sq m in area, in which cultivation is only possible by irrigation, which has been practised here since the earliest times.

Historical records, revealed by the excava tion of ancient cities, go back to the fourth millennium BC and the oldest civilisation was that of the Sumerians Successive Semitic invasions gradually overwhelmed the Sumerian dynasties, the empire of Akkad founded by Sargon at Kish, opening the era of consecu-tive history which witnessed the rise of Baby lon, the great succession of Babylonian dynastics, the conquests of the Assyrians and the passing of Babylonia under the sway of Persia.

Conquered by Alexander the Great, Meso potamia never became extensively Hellenised, but passed by degrees under the rule of the Parthians and for a short time under Trajan was part of the Roman Empire Reconquered by Persia it fell to the Arabs shortly after the rise of Islam, and became the centre of Moslem culture under the Callphs Conquered again by the Mongols under Hulagu and by the Tarters under Timus, the country, now laid desolate was the scene of a struggle between Turks and Persians which ended in victory for the former, and Mesopotamia remained in Turkish pos session till the growth of Arab nationalism led to its liberation during the Great War and its reconstitution into the kingdom of Iraq after the war

Mesopotamia is extremely rich in archaeo Mesopotamia is extremely rich in additional logical remains and ancient monuments Excavations at Ur. Kish, Babylon, Erech, Nippur, Lagash, Ninevch, Asshur and other ancient sites have yielded important results, but much work still remains to be done Of existing monuments, the arch at Ctesiphon, the ruins of Babylon, and the ziggurat of Ur are worthy of mention. See SUMER, AKKAD, BABY-LON, ĽRAQ

Messalina Valeria Wife of the Roman Emperor Claudius She was noted for her avarice, cruelty and lust. While the emperor was away she publicly married one of her favourites, and eventually Claudius had her executed in A D 48

Messiah Title the Anointed," as sociated in Hebrew prophecy with the expected edvert of one who would

with the expected advent of one who would restore the kingdom of David The Messianic hope, still surviving in Jowish theology, profoundly influenced the spread of Christi anity

Messina City and seaport of Italy It stands on the strait of Messina, 70 m from Syracuse It has a fine harbour, 70 m from Syracuse It has a line harbour, but most of the buildings were destroyed by an earthquake in Deo 1908 Since rebuilt, it contains some imposing structures, both ecclesiastical and secular, and the famous university has been partly reopened. The chief industry is shipping Silk, muslin, and linen are manufactured. Pop (1931) 182,508. The strait of Messina between Italy and Clastic to shout 20 miles lange.

Sicily is about 20 miles long

Village of Belgium Messines Village of Belgium It is in Flanders, 6 miles from Ypres and gives its name to a ridge of hills conspicuous during the Great War On Nov 1914, the Germans entered Messines and June 7th of that year the British made a determined attempt to capture the ridge The German lines were captured according to plan and their counter attack falled The operations were directed by Lord Plumer and 7200 German prisoners were taken The ridge and the other gains were lost in April 12, 1918, during the German offensive, but they again came into British hands during the advance in Sept. 1918

Messuage Legal term for a dwelling-house with the outbuildings and garden that go with it

Mestrovic Evan Croatian soulptor Born in Dalmatia in 1883, he started life as an apprentice to a master mason at Spalato He studied art at Vienna and soon attracted attention by his sculptures, first exhibited in 1902 In 1906 and 1915 17 works by him were on view in London and there is a torso by him in the Victoria and Albert Museum, South Kensington Other works include portraits of Plus XI and President Hoover

Metabolism Term in blology at its applied to the constant physical and chemical changes taking place in the protoplasm of all living tissues. One Term in biology series of processes are concerned in the building up of tissues from simpler substances and are termed anabolic, while the reverse or katabolic process breaks down the protoplasm into simpler bodies

Metal Larger of the two groups of the metals are widely distributed throughout the earth's crust, others are of more restricted occurrence, while many are only present in small quantities in rare minerals. Iron and aluminium in the form of oxides and silicates, aluminium in the form of oxides and silicates, with calcium and magnesium as carbonates, form a considerable portion of rocks, while sodium and potassium compounds are abundant in sea water and certain deposits. The characteristic physical properties of metals are their lustre and opacity, density, malleability, ductility, fusibility and conductivity, although a wide rappe of variation and degree although a wide range of variation and degree occurs Magnetic properties are present in iron, nickel and cobalt.

Metallography Branch of metal-lurgy It deals with the microscopic examination of metals and alloys and the effect upon them of micro-chemical reactions in elucidating their physical structure. It was founded by Dr. Sorby of Sheffield in 1864 and has become of great importance in the investigation of causes of fracture and the structure of alloys, both ferrous and nonferrous. A highly polished section of metal is atched by certain chemical section of metal is etched by certain chemical

reagents and the characters of the etchings stations. Uniformity in are studied by reflected light under a special observations necessitates type of microscope

Metallurgy Science dealing with the extraction of metals from their ores and their adaption to manufacture. The methods employed are based upon a knowledge of chemistry, electricity, mineralogy, and the physical sciences Metallurgy is one of the oldest of the arts and has now reached a recombility trage. a very high stage of development. processes by which metals are extracted from their ores are either dry, including smelting, volatilisation or amalgamation; wet, when chemical reagents are used for solution of the ores, or electrolytic

ores, or electrolytic Metaphysics Science of being The word is the title given in the 1st century BC to certain books of Aristotle, dealing with philosophy, arranged for study "after physics" The metaphysician's problems concern matter and mind, appearance and reality, and schools of thought tend to fall into such categories as materialism, idealism and realism or to deal with their interactions in the form of monism, dualism or pluralism There is a chair of metaphysical philosophy at Oxford

philosophy at Oxford

Metazoa Term denoting, in the animal kingdom, all many-celled animals Higher than the one-celled animalcules and colonies of independent cells forming the and colonies of independent cells forming the Protozoa, they possess body-cavities and nervous systems, being composed of cells specialised to perform the functions necessary for life and reproduction. They comprise the many-celled invertebrate sub-kingdoms, from the sponges upward through the jelly-fish, sea-urchins, worms and molluses to the sutherpoods, culminating in the vertebrate sub-kingdom Development occurs by means of male and female germ-cells

Metempsychosis Belief of ancient origin that the human soul passes through a series of incarnations in a physical body In its lowest form metempsychosis may imply the passing of a soul into an animal's body, but this view has not been acceptable to more advanced thinkers In its higher aspect of reincarnation, it was taught by Plato, Pythagoras and other Greek philosophers

Meteor Small, solid body moving in a

Meteor Small, solid body moving in a regular orbit in space Meteors usually occur in swarms which, on entering the earth's atmosphere at a great velocity. the earth's atmosphere at a great velocity, become incandescent and visible as so-called shooting stars. In November the Leonid Meteors are seen especially at intervals of 33 or 34 years. The Perseids are visible in August and other important streams occur in other months of the year

Meteorite Metallic or non-metallic body occasionally found on the earth's surface and having its origin in interplanetary space Meteorites vary in the earth's surface and naving its origin in interplanetary space Meteorites vary in size from small grains to large masses found in Greenland and South Africa, weighing from 50 to 70 tons or more The metallic kind, or siderites, are composed chiefly of iron and nickel, with some graphite carbon, while the stony kind, or aerolites, are analogous to the ultrabasic rocks of the earth's crust.

Meteorology Science dealing with pheric conditions in relation to the weather and climate It is based upon regular and systematic observations carried out at a number of

stations Uniformity in recording these observations necessitates a meteorological organisation with a central office where organisation with a central office where deductions are made and charts drawn up, enabling weather forecasts to be made. These records are concerned with temperature, direction and force of winds, also general weather conditions, and are based upon observation made at the ground level and partly by observation of the conditions of the conditions. by observation of the condition of the upper atmosphere by means of kites or balloons carrying recording instruments Meteorology has become of increased im-

portance owing to the universal use of aviation, and the aeroplane is now a means of gaining direct knowledge of atmospheric temperature In Great Britain the Meteorological Office is the controlling centre and was founded in 1854 under the supervision of the Board of Trade, but is now under the Air Ministry

Methane Simplest of the paraffin series of hydrocarbons It is known also as marsh gas or fire-damp Its chemical also as marsh gas or fire-damp. Its chemical formula is CH<sub>4</sub>, and it is a colourless, odourless gas, which burns with a faintly luminous flame Methane is a constituent of coal gas and is given off from decaying vegetable matter.

Methodism Term denoting religious the 18th-century evangelical revival It was applied derisively to certain Oxford students, including John and Charles Wesley, who formed a "society" for Bible study and other activities, 1729 John Wesley began evangelistic work in London, 1739, instituted lay-preaching, 1741, and in 1744 held a conference of his followers, who became officially "the people called Methodists" Wesley and his helpers took up open-air preaching, and the movement spread apace, especially among the humbler spread apace, especially among the humbler classes

Immigrant local preachers in N America, from 1760 onwards, developed a movement resulting in a conference in Philadelphia, 1773 Coke and Asbury were consecrated for this work, 1784, Coke's adoption of the title "bishop" started the American Methodist Episcopal Church.

Episcopal Church.

After Wesley's death, 1791, various offshoots arose which gradually coalesced. An Enabling Act, 1930, empowered the Wesleyan, Primitive and United Methodist Churches to combine as the Methodist Church, 1933 World statistics aggregate about 10,000,000 members, ministers and local preachers, apart from scholars See Bible Christians

Methuen Baron English title borne In 1709 Sir Paul Methuen arranged a treaty by which Portugal joined Great Britan in the

by which Portugal joined Great Britain in the war against France and received in return a market in England for her wine In 1838 his descendant, Paul Methuen, MP, a landowner in Wiltshire, was made a baron Paul Sanford Methuen, who became the 3rd baron in 1891, was born Sept. 1, 1845, was educated at Eton and became a lieutenant in the Scots Guards in 1864. He served in Ashanti in 1874, in Egypt in 1882, and in 1884-85 raised and led Methuen's Horse in Bechuanaland. Meantime he held appointments on the staff He was appointed to command a division when the war against Bechuanaiana. Alexantine he held appointments on the staff. He was appointed to command a division when the war against the Boers broke out in Oct. 1899, and he was on active service until taken prisoner in March, 1902 From 1903 of he held a command in England, from 1907-09 he was Commander-in-Chief in S Africa, from 1909Governor of Malta His honours include the rank of field marshal (1911) In 1920 Lord Methuen was made Governor of the Tower of London He died Oct. 30, 1932.

Wethuselah Testament. A son of Enoch and the grandfather of Noah (Gen v), he is said to have lived 969 years

Methyl Name given to the organic having the chemical formula OH. It does not exist alone, but has many derivatives.

Methyl Alcohol Simplest of the alcohol series of organic compounds having the formula CH, OH In its commercial form it is known as wood spirit or naphtha, being obtained by the dry distillation of wood Like ethyl alcohol, or spirits of wine, it burns with a blue flame and is used as a solvent in varnish

as the supposed ten millionth part of the quadrant of the earth's meridian, but is now taken as the length of a standard platinum bar in Paris

Metric System System of weights ing a decimal scale of numeration and based upon the metre as the unit. The gram or unit of weight and the litre the unit of capacity are both derived from the metre, and in each eet of weights and measures numeration is

set of weights and measures numeration is by powers of ten of the unit

The following prefixes are used deca=10, hecto=100, kilo=1000, myria=10,000 and decl=2 centi-15. milli=r2.

The metric system is adopted by most nations owing to its simplicity and ease in calculation the leading exceptions being Great Britain and the United States

Metronome Clockwork device for determining the pace of muse In inverted suspension before a wooden box (which is marked with a graduated speed chart) is a rod kept upright by a bullet A sliding bress weight causes the rod to make between 40 and 208 oscillations per minute. The modern metronome was the invention of the Dutch mechanician Winkel in 1912, but Markel who added the great chart is but Maelzel who added the speed-chart, is credited as the inventor

Metropolis Word used for the chief England the metropolis is London, where some of the organisations and the boroughs are known as metropolitan. The Metropolitan Water Board, set up in 1902 supplies water to some 8,000 000 people in the London area. It consists of 66 members elected by the county councils and other authorities concerned. Its offices are in Rosebery Avenue, E.C.

15, Governor of Natal, and from 1915 19, Governor of Malta His honours include the metropolitan, and there are metropolitan field marshal (1911) In 1920 Lord Method was made Governor of the Tower of London He died Oct. 30, 1932.

Methods He died Oct. 30, diseases, asylums for imbeciles, schools for defective children and so on.

Metropolitan Archbishop or bishop who holds a presiding position The archbishops of Canterbury and York are metropolitans. The term is also used in the Greek and Roman

Catholic churches

Metternich Clemens Lothar Wenzel, Princa. Austrian states man Born at Coblenz, May 15, 1773, he become Austria's Foreign Minister in 1809, and for a period after the end of the Napoleonic wars was "The Master of Europe" A man Methylated Spirit Form of in dustrial spirit and wood naphtha or methylated spirit and wood naphtha or methylated spirit has in addition of per cent. petroleum, laced spirit for use in spirit lamps contains 9 f per cent. wood naphtha, pyridinised spirit has in addition 0 for cent. petroleum, laced spirit for use in spirit lamps contains 9 f per cent. wood naphtha, pyridinised spirit has in addition 0 for cent. pyridine, and mineralised spirit for use in spirit lamps contains 9 f per cent. wood naphtha, pyridinised spirit has in addition 0 for cent. pyridine, and mineralised spirit for use in spirit lamps contains 9 f per cent. wood naphtha, 0 f per cent. pyridine and † per cent. petroleum. See AlcOHOL.

Metre Unit of measurement in the metric system.

Metz Moselle department. A Roman fortified town, it was supplied with water by a huge aqueduct, and connected by road with other important centres. It belonged later

with other important centres. It belonged later to the Huns, the Franks and, after a free period under its own powerful bishops, to the French, being strongly fortified by Vauban in 1674. Taken by the Germans in 1870 and made the capital of German Lorraine, it was restored to France in 1919.

The Moselle runs through it, and there are fourteen bridges and ten city gates. The cathedral, built in the 13th and 16th centuries, is mostly Gothic in style. Metz is a great centre of commerce. The chief industries are in shoes, metal work and the preservation of fruits and vegetables. There is a tobacco factory, also some trade in wine and grain. Pop (1931) 78,767.

Meuse Buver of Europe called by the France, not far from Langres and flows past.

France, not far from Langres and flows past Vcrdun and Sedan to Givet, where it enters Belgium It flows then past Dinant, Namur and Llege into the Netherlands It falls Into the Waal, a branch of the Rhine, near Gorkum The river is 575 m. long 120 m. being in Belgium and 150 in the Netherlands The Bar, Sambre and Ourthe are among its tribu taries I is navigable for most of its course, and is linked with other waterways by canals. The Meuse is important from a strategic and a commercial point of view There was much fighting along its course during the Great War and also in earlier times

A department of France is called the Meuse This is a hilly district in the E Bar le-Duc is the capital, other places are Verdun and

Clermont

Meux Sir Hedworth English saflor Born July 5, 1856, he was a younger son of the 2nd Earl of Durham, and as Hedworth Lambton entered the navy in 1870

In 1899 he became known for his assistance when commanding the Powerful to the defenders of Ladysmith From 1904-06 he commanded a cruiser squadron, from 1908 he was in oharge of the fleet in Chinese waters from 1912 to 1916, when he retired from the service, he was Commander-in Chief at Portsmouth In 1906 he was knighted, and in 1911 he succeeded to the property of Sir Henry Meux and took that name From 1916-18 he was MP for Portsmouth. He died Sept 20, 1929

Micheles IM Cynell Alice English poetess. She was born in 1850, a daughter of T J Thompson and a sister of Lady Butler, In 1877 she married Wilfred Meynell, the author and journalist, and won fame by her poems The Rhythm of Life and The Colour of Life. She compiled one of the best of English verse anthologies The Flower of the Mind, and died Nov. 27, 1922

Mézières Town of France It stands on the Meuse, 47 m from Rheims, and is a railway junction With

Mevagissey Village and watering place of Cornwall It is 12 m from Truro and has a good harbour It is a fishing station

Mexborough Market town and district of Yorkshire (W.R.) It stands on the river Don, 11 m. from Sheffield, on the L.M.S and L.N.E. Rive The industries are connected with coal and iron Pop (1931) 15,856

Mexico Country extending from the United States of America to Guatemala in Central America It was annexed by Spain in 1521, remained a Spanish possession for three centuries and then became a republic passing through violent times, intermixed with periods of tranquillity, notably under President Diaz (1876-1880 and 1884-1911) 1911)

Mexico is a Federated Republic of 28 states, 1 federal district and 2 territories; area, 767,198 sq m It has a high central plateau bounded by coastal mountains, beyond which the land slopes to the coasts. The plateau has a cool dry atmosphere, with large desert areas, and crops need irrigation. The climate in the S is tropical. The chief industry is mining. The

is tropical The chief industry is mining oil products are also famous

Vast areas are suitable for agriculture, but only a fraction has yet been exploited The crops include sugarcane, sisal, maize, coffee, cotton, tobacco, cocoa, bananas, olives, rice and chiefe, the basis of chewing gum The valuable forests are almost untouched Great damage was done by a cyclone in 1933 Population (1930) 16,401,030

Mexico City Capital of Mexico, on about 7400 ft above sen level Like the old Aztec city, the principal streets lead from a central plaza, with its Parliament House and cathedral Formerly hable to serious damace by flooding, the city is now adequately drained It is an industrial centre with many factories and is connected with the United factories and is connected with the United States by rail It has two broadcasting stations (49 8 and 48 65 M) Pop (1930) 968,443

Meyerbeer Giacomo French comstanding figures in French Grand and Comic Opero, he was born in Berlin, of Jewish extraction, in 1791 A prodigy planist at six, he afterwards studied composition in Venice, and settled in Paris, 1826, where he produced his best work, Robert le Duble (1831), Les Huguenots (1836) and Le Prophète (1843) He died May 2, 1864

Meynell Name of an English family Meynell Name of an English family that gives its name to a famous pack of forhounds It was founded by Hugo C Meynell-Ingram about 1846, and hunts a district on the borders of Staffordshire and Derbyshire The kennels are at Sudbury

Tom
He
Mézières Town of France It stands
on the Meuse, 47 m from
Rheims, and is a rallway junction With
Charleville on the other side of the river, it
forms a municipality The Germans held it forms a municipality. The Germans held it from Aug 1914, until Aug 1918, much damage being done when they were driven out. The town, which has been adopted by Manchester and rebuilt, is famous for its defence by the Chevalier Bayard in 1521

Mezzotint Engraving process in which the design is worked from a dark ground to the high lights This is done by roughening the surface of the copper or steel plate with a "rocker" tool, giving when inked a deep black surface. The high lights are obtained by scraping and burnishing

Miami City and pleasure resort of Florida It is in the south of the state at the mouth of the River Miami and on Biscayne Bay, an arm of the Atlantic Ocean. Owing to its excellent climate, it has become a very popular pleasure resort. In 1926 much damage was done by a hurricane Pop. 110,600

Miami is the name of an Indian tribe and

of a river in Ohio Group

of mineral Mica aluminium and potassium, sodium, lithium, or iron and magnesium, characterised by a pearly lustre and cleavage into thin elastic sheets The colour varies from white, yellow, green to brown and black The colourless varieties are used for lamp chimneys and stove doors, also as an electrical insulating material

Micah One of the Old Testament minor prophets A contemporary of Isaiah, he prophesied under Jotham, Ahaz and Hezekiah The Book of Micah contains some Messianic promises

Michael Name of a "great prince" of Daniel x. 12 In Jewish theosophy he was a champion of Israel He is commemorated as a saint on Sept 29

Michaelmas Feast of S Michael and All Angels on Sept. 29, and the day fixed as Quarter Day Up to 1873 Michaelmas was the first term in law (Nov 2 to 25)

Michelangelo (Michelangelo Buon-arrott) (1475-1564)
Italian painter, soulptor, architect and poet.
The greatest of the Renaissance artists of Italy The greatest of the Renaissance artists of Italy He worked under the patronage of Lorenzo de Medici and Popes Alexander VI, and Julius II. His most famous works include the colossal statue of David, "The Giant," carved in a block of marble, his sculptured figures "Moses" and "The Slaves," his frescoes on the celling of the Sistine chapel at Rome, and "the Last Judgment" His verse is ranked among the finest examples of Italian poetry

Michelsen Albert Abraham American scientist Born at Strelno, Gormany, Dec. 19, 1852, he was educated at the US Naval Academy, 1873.

884

Leaving the navy he studied in Germany and France, 1880 82, and became professor of physics at the Case School, Cleveland, 1883 While here he invented his Interferometer In 1889 he became professor of physics at Clark University and in 1892 at the University of Chicago In 1926 he was appointed distinguished service professor at Chicago He received the Nobel Prize for Physics in 1907 With E W Morley he conducted an experiment to determine the effect of the earth's motion on the velocity of light (1887) In 1925 he repeated this test, both results being negative—fundamental experiments upon which was based Einstein's Theory of Relativity See ETHER, LIGHT RULATIVITY

Michigan State of the United States In the north of the country, it consists of a peninsula between Lakes Michigan and Huron Nearly 40,000 sq m of water belong to it and it has a constline of 1620 m on Lake Michigan The land area is 67,480 sq m Lansing is the capital, but Detroit is much the largest city Other populous centres are Grand Rapids and Flint The state is governed by a legislature of two houses and sends two senators and 17 representatives to Congress It is chiefly an agricultural area but a great deal of copper is mined Pop (1930) 4 840,000

Michigan Lake of the United States is the only one of the Great Lakes wholly within the United States Chicago and Milwaukee are lakeside cities There is little navigation since the lake is subject to violent storms and lacks good harbours, but its fisherics are valuable

Micrograph Instrument of the nature for producing very small writing or drawings also a minute drawing

Micrometer Instrument used for accurately measuring very small spaces. It takes many forms, the commonest being the screw micrometer in which a screw with a very small pitched thread is provided with a large graduated head and suitably mounted. The movement of the screw during a complete rotation is equal to the pitch of the thread, smaller measurements being determined from the graduated head. Special forms of micrometers are used in telescopes and microscopes

Microphone Electrical instrument for intensifying sound The three chief types are the carbon or contact microphone used in telephony, the electro dynamic or magneto phone and the electro static or condenser microphone The action of the carbon type depends upon the varying electrical resistance between carbon particles, contained between two carbon discs upon which the sound waves impinge

Microscope Optical Instrument used for examining minute objects by magnification The name is usually applied to the compound type consisting essentially of a rigid stand carrying a stage for supporting the object, beneath the stage is a movable mirror for illuminating the object and above is a tube carrying the lenses

The Royal Microscopical Society, founded in London in 1839 was established to foster

Microscopical science
Midas In Greek legend a king of Phrygia
He asked that all he touched
might turn to gold and his wish was granted,
when even his food became gold he implored

Pactolus

Town of the Notherlands

Middelburg Town of the Netherlands. The chief town of the province of Zealand it stands on the Island of Walcheren 4 m from Flushing The town hall is a fine 16th century building Middelburg was formerly a centre of the cloth trade and has some manufactures Pop 19,000

Middelburg Town of the Transvaal on the railway to the port Lourenco Marques, 284 m away Near are coal mines It is the business centre of a large district Pop (white)

Another Middelburg is a town of Cape Colony It is 2.0 m from Port Elizabeth and is the centre of a farming district

Middle Ages Term used for the period between ancient and modern history It is usually regarded as beginning at 476, when the last homan I mperor was deposed in Italy Its end may be either the capture of Constantinople by the Turks in 1453 or the discovery of America in 1492

Middleham Village of Yorkshire (NR) It is 2 m from Leyburn and is famous for the ruins of its castle, one of the strongest fortresses in England, long a sect of the Neville family There are racing stables in the village

Middlesbrough County borough, market town and scaport of Yorkshire (NR) It stands on the Tees, 238 m from London on the LNE RIV, and was founded early in the 19th entury The chief industries are the production of iron, steel chemicals and ship building There is a fine harbour with exten sive docks in the river A transporter bridge crosses the river here Pop (1931) 138 489

Middlesex County of England, the smallest in the country, but densely populated It covers 233 sq m and much of the area is in the London district Brentford is the country town other boroughs are Acton, Faling, Hornsey and Twickenham the urban districts of Willesden, Edmonton, Enfield, Finchley, Southgate and Tottenham are also in the county In 1932 the urban districts of Hendon and Heston were raised to the rank of boroughs. It is divided from Surrey by the Thames and from Essex by the Lea The Colne and Brent are other rivers Pop (1931) 1,638,521

The Middlesex Regiment, consisting of the old 57th and 77th Foot raised in 1755 and 1787 respectively, has a long record of sorvice and fought in the Great War They are known as 'The Die hards' from their conduct at Albuera (q v)

Middleton of Lancashire It is 6 m of Lancashire It is 6 m on the L M S Rly There are cotton mills ongineering and chemical works Pop (1931) 29,189

Middleton Thomas English drama tist Born in London about 1570 he studied law In 1620 he was made city chronologer and he died in 1627 He is known as the author of several once popular plays, notably A Trick to catch the Old One A Mad World My Masters, Women beware Women and A Game at Chesse In collaboration with Rowley he wrote The Changeling, The Spanish Gypsie and The Old

Law, and collaborated with Thomas Dekker in The Honest Whore and The Roaring Girle. Middleton wrote for some years the pageants for the Lord Mayor's Show

Middleton of Durham It stands on the Tees, on the L N E Rly Around are coal mines Pop 1977

Middlewich Borough and market town of Cheshire It is on the River Dane, 6 m from Northwich, on the LMS Rly The chief industry is the extraction of salt, there are also chemical works Pop (1931) 5458

Midge Name denoting indiscriminately two-winged insects of various families The typical plumed midge, Charonomus plumosus, swarms in the summer air, its short, soft, non-piercing probosois distinguishing it from gnats. its larvae are colloquially called blood-worms The black midge which bites the hand is a Ceratopogon Some, cg, the pear midge, are destructive

Midhurst Market town of Sussex. It is 12 m from Chichester and 64 from London, with a station on the S Rly Near are the ruins of Cowdray Castle Midhurst was once a borough Pop (1931) 1890

Midi District of France It is the region around Toulouse and owes its name to the fact that this was once a middle land between France and Spain The Canal du Midi, 148 m long, constructed between 1666 and 1681, extends from Toulouse to the Mediterranean Sea, near Warboune

Midian Arabian region E of the Akabah Gulf, anciently occupied by the Midianites Some were caravan traders, some pastoral nomads They made predatory excursions into Canaan until Gideon defeated them

Midlands Name used for the midland counties of England The district lies between the Thames and the Trent, and between East Anglia and the counties on the border of Wales It includes the counties of Nottingham, Derby, Stafford, Leicester, Rutland, Northampton, Warwick and Worcester

The Midland Regional programme of the British Broadcasting Corporation is run on a wave-length of 398 9 M, 25 kW

Wave-length of 398 9 M, 25 kW

Midleton Earl of English politician
Brodrick was the eldest son of the 8th Vis
count Midleton, the holder of an Irish title
dating from 1717 In 1880 he was elected M P
for Surrey and represented a division of that
county until 1907, when he became a peer In
1888-92 and again, 1895-1900, he held office in
the Unionist Government and in 1900 became
Secretary for War From 1903 05 he was
Secretary for India He was created an earl in
1920 The earl lives at Piper Harrow, near
Godalming, his eldest son being styled Viscount
Dunsford

Midlothian County of Scotland It covers 370 sq m and has a short coastline on the Firth of Forth In it are the Pontland and other ranges of hills It contains Edinburgh, Leith, Dalkeith, Musselburgh and Penicuik, and such romantic spots as Roslin and Hawthornden Its rivers are the Water of Leith, Gala, Almond and other short streams The title of Earl of Midlothian has been borne by the Earl of Rosebery since 1911. Pop (1931) 526,277

Midnight Sun Term applied in to that the sun is visible within the Arctic Circle during the whole 24 hours at midsummer This is principally due to the obliquity of the earth's aus During the season when the North Pole is inclined towards the sun, the day lengthens as one approaches the North Pole

Midshipman Junior officer of the British navy A naval cadet on passing out of the college at Dartmouth becomes a midshipman when his training is continued on board ship He messes in the gun-room and commands small parties of men His rank is shown by a white tab on the collar of the jacket and he wears a dirk

Midsomer Norton Urban district of Somerset It is 12 m from Bath, on the GW Rly, and stands on the little River Somer The chief industry is coal mining Pop (1931) 7490

Midwife Women who attend during childbirth The profession is a very old one and until recently could be practised by anyone Now, however, in Great Britain all midwives must be certificated The Central Midwives Board at 1 Queen Anne's Gate Buildings, London, SW, grants the certificates and has power to revoke them There is a separate board for Scotland at 49 George Square, Edinburgh

Midwifery Properly speaking, the term covers the study and supervision of the whole reproductive cycle in man and is synonymous with obstetrics (q v) In terms of general reference, however, midwifery is confined to the attendance on mothers during childbirth and hence to the profession of midwifery as practised by women trained to assist in and supervise delivery. It therefore falls under the province of nursing (q v)

falls under the province of nursing (q v)

MIDWIFERY AS A CAREER—Midwifery
offers scope to the woman who takes up nursing
too late in life to obtain a general hospital
training, though here as elsewhere such a
training would stand her in very good stead
The status of the midwife is much improved
since the passing of the Midwives' Acts in 1902
and 1918, enforcing compulsory registration
and training The course is a twelve-months'
one (or six months for a general nurse) and a
certificate is given by the Central Midwives
Board, Queen Anne's Gate Buildings, Westminster, London Training can be had at any
Maternity or Lying-in Hospital recognised by
the Board, to whom application for particulars
should be made

Mignonette Genus Rescda of annual herbs of the order Rescdace, natives of the Mediterranean region and W Asia The fragrant R odorata, which reached Chelsea from Egypt, 1752, has become a favourite garden plant, developed into compact forms, with giant pyramidal white, red and golden heads, as well as dwarf and double-flowered varieties Tree-mignonette, developed by gardeners, is a short-lived perennial form The two British and several European species, including the white mignonette, are scentless.

nonette, are scentless.

Migraine Word derived from hemially beginning or predominating on one side
of the head It is also called sick-headache
Sometimes occasioned by stomach disturbance
and eyestrain, it may recur periodically, and

several hours or the whole day

Migration Periodic mass movement of animals, especially birds from one seasonal habitat to another and back again The primary stimulus is the food quest Conditions in the S hemisphere have not been closely studied in the N hemisphere most birds exhibit mass movements between summer quarters for hesting and breeding and winter quarters for feeding and resting Britain has summer visitors for breeding, winter visitors from northern breeding places, birds of passage, partial migrants of whom some remain, and non migratory residents Birds invariably breed in the colder area of their range, those breeding in the tropics sometimes make vertical but never horizontal migrations The collec tive movement is remarkably uniform, punctual and constant in direction

Mikado Sovereign of Japan The Japanese do not use this title, preferring to call their ruler tenshi, or the son of heaven The Mil ado is the name of one of Gilbert and Sullivan's most popular operas

It was first produced in 1885
Willan City of Northern Italy Situated
on the River Olona in the Lombard plain, it is the capital of the province of the same name Historically it is one of the most interesting of the Italian cities, with many famous and beautiful buildings These include the cathedral, which took nearly five centuries to complete, the church of San Ambrogio the Castello Sforza, and the monastery of Santa Maria delle Grazio, where Leonardo painted his "Last Supper" on the refectory wall

Millan is equally important commercially and nancially Silk is the principal manufacture financially Others include machinery, embossed leather, etc It has a broadcasting station (331 5 M,

7 kW) Pop (1941) 976,000

The Duchy of Milan was very powerful in the Middle Ages It was held first by the Visconti family, then by the Sforzas, and was later in the hands of the Spanish crown.

Mildenhall Market town of Suffolk. Edmunds and 76 m from London on the little River Lark, and is served by the L.N.E. The market cross and the manor house Rly

are notable Pop 3370

Term applied to a belonging to the Erysphae It is popularly used for moulds and allied types. The mildew fungus forms a cobweb like mycelium on plants while haustoria or suckers penetrate the epidermis of the host. Both summer spores and winter spores are formed, the latter being set free in the following spring Erysiphe tuckeri, the mildew of the grape vine attacks the leaves and fruit doing great damage to the

Mile English measure of length The statute mile is 1760 yards, but in former days it varied very much in different parts of the country The nautical mile con

be attended by numbness, visual disturbances, People's Palace, the East London College, the excessive sensitiveness and vomiting, lasting Great Assembly Hall St Benet's Church and Prinity Hospital

Miletus Ancient city and scaport of Traditionally it was founded by Miletus, a son of Apollo, and it became one of the greatest of the Greek cities of Asia Minor In 494 B.C. Miletus headed the other Greek cities of this region in their revolt against the Persians, but this resulted in its destruction Being rebuilt it was destroyed by Alexander the Great, after whose time it was a Roman city

Milford Scaport and urban district of Pembrokeshire, standing on Mil ford Haven, 9 m from Haverfordwest, on the GW Rly There is a good harbour and the port is a fishing centre. The town was founded in 1790 to serve as a station for the navy, but (1931) 10,116

Milford Haven Opening of the Atcoast of Pembrokeshire It is 10 m long and is one of the finest barbours in Great Britain.

The East and West Cleddau rivers flow into it and on it are Miliord and Pembroke Docks Anns Head on which is a lighthouse,

The title of Marquess of Millord Haven was given in 1917 to Louis, Prince of Battenberg. Born in Austria, May 24, 1854, he became a British subject and entered the navy He was Director of Marque 1909 05 Director of Naval Intelligence, 1902 05, Commander in-chief of the Atlantic Fleet, 1908 10 and First Sea Lord of the Admiralty, 1912 14 He died Sept 11, 1921

Military Cross (M.C.) British It was founded in 1915 and is given to military officers not higher than the rank of captain for services in action The badge is a silver cross and the ribbon is white, purple and white.

Military Medal (MML) Decoration missioned officers and men of the British army for bravery under fire Women are also cligible Instituted in 1916 it is a silver medal. On the reverse side are the words "for bravery in the field" surrounded by a wreath with the royal cipher and a crown above

Military Knights of Windsor Body of the Corder of the Garter They were at first known as Poor Knights and ranked below the ordinary knights They are appointed by the king, being wounded or disabled officers of high rank and they occupy quarters in Windsor Castle Their number is 13

Military Law tary forces In Great Britain, the Army Act, passed annually, includes the penal code for discipline in the army, administrative laws and provision of maintenance Matters of discipline, in addition to the act, are governed by rules of procedure in the King's regulations and in royal warrants.

former days it varied very much in different parts of the country. The nautical mile contsists of 29261 yards. The mile is advided integet furlougs. It originated with the Romans, being 1000 (mille) paces, or about 1610 yards. MI11t1a in Great Britain until 1908. It was raised in the countries by the lord Heutenants, the men undergoing one months training each year, for which they received yarment. The militia was formed when the country was threatened with invasion. It was gives its name to the great thorough fare known as Mile End Road, connecting Whitechapel several wars with France, 1759 62, 1778 83 Road and Bow Row. In Mile End are the

War, 1854-55, and during the struggle with the Boers in 1899 1902. After 1757, each parish was obliged to furnish men, drawn by ballot, for the militia, but persons on whom the lot fell could pay a substitute. Not being available for foreign service some of them went as volunteers in 1899. In 1907 the militia was merged in the Territorial Force.

Milk Fluid secreted in the mammary glands for the nourishment of the roung animal. It is of the nature of an emulsion, minute fat globules being held in suspension in a liquid which consists of water containing, insolution, albuminoids, lactose and mineral salts. Cow's milk consists of about 87 per cent water, 35 per cent fat, 30 per cent albuminoids, 45 per cent, lactose or milk sugar, and 07 per cent ash. In skim milk 90 per cent is water and in whey about 93.5 per cent. In condensed milk much of the water has been evaporated in a partial vacuum at a comparatively low temperature. Under the Food and Drugs. Act milk exposed for sale must conform to a certain standard and must not contain preservatives or colouring matter.

Milkwort Large genus of temperate and tropical perennial herbs typical of the milkwort family (Polygala) The common British P tulgaris, formerly supposed to increase the milk-yield in cows, has wiry stems, leathery leaves and small flowers Several showy Cape species are cultivated The British sea-milkwort, Glaux maritima is of the primrose family

Milky Way hame given to the starry belt seen on a clear night. It stretches as a luminous band across the sky, especially in autumn, when it stretches east and west close to the zenith. With the aid of the telescope it is seen to consist of a dense belt of stars, but not uniform, however, as dark channels and spaces occur usually near the brighter areas. In the vicinity of Alpha Centauri the Milky Way divides into two branches which reunite near Eta Cygni.

Mill John Stuart. English economist, publicist and philosopher. Born May 20, 1806, he was the son of James Mill, the founder, with Jeremy Bentham, of the Utilitarian philosophy He entered the India Office and became the foremost exponent of Utilitarianism, but later adjusted his views on more altruistic lines He did much for the poor, and advocated universal suffrage and franchise He died May 8, 1873 Mill wrote a System of Logic, On Laberty, and Principles of Political Economy amongst other works

Millais Sir John Everett. English artist Born at Southampton in 1829. Millais was one of the founders of the Pre-Raphaelite Brotherhood. At an early age he entered the Roval Academy Schools and developed remarkable artistic power and technical skill His early painting "Christ in the Carpenter's shop" (Tate Gallery) is his best, and other important pictures are "Lorenzo and Isabella" (Liverpool), "Ferdinand and Ariel" (Tate Gallery) and "Ophelia" (National Gallery) In 1885 he was created a baronet and in 1896 became president of the Royal Academy He died Aug 13, 1896

Millbank District of London, in the city of Westminster by the side of the Thames. The chief buildings are the Tate Gallery Queen Alexandra's military hospital and the Royal Army Medical College

and barracks Between 1812-22 a prison was built here in the shape of a wheel, surrounded by a moat It was used for various purposes and, in 1903, was pulled down The site is now occupied by the Tate Gallery Imperial Chemical Industries have erected large offices here, and another large block is known as Thames House

Willboard Stout form of cardboard making, etc It is made from various waste fibres and papers. Hemp and flax waste are used for the best grades, waste paper for the lower qualities, and a percentage of pulped leather for leather boards.

Millennium Mediaeval Latin word denoting especially a period when according to long expectation, Christ would return to govern the earth for a thousand years It is based upon apocalyptic literature, eg, Damiel and Revelation

Millerand Alexandre French lawyer and politician Born Feb 10, 1859, he became editor of Socialist papers, was elected to the Chamber of Deputies as a Radical Socialist in 1885, and was active in military organisation and the suppression of strikes At the end of August, 1914, he became Minister for War, and in 1919, as Commissaire Général in Alsace Lorraine, was successful in re-organising these districts under French government. He was elected President of the Republic in 1920, and kept a firm hold on foreign affairs, but was defeated in 1927 and succeeded by Doumergue Later in the year he was again elected to the Senate.

Milles Carl Swedish sculptor Born at Stockholm in 1875, and educated at Stockholm and Paris, he was for a time Professor at the Royal Akadamie at Stockholm He teaches sculpture at the University of Cranbrook, Michigan, U.S.A. His work is represented in the galleries of Europe and America

Millet General name for many cereal grasses Common millet, Panicum milaceum, and little millet, P miliare, are grown largely in India for food purposes Italian millet comes from Scharia idalica, German millet being a dwarf variety Pearl millet grows in tropical Africa, India and S Europe Sec Indian Millet

Millet Jean François French painter Born at Greville in Normandy, in 1814, Millet was the son of a peasant farmer and showed a natural aptitude for drawing. Tho town of Cherbourg paid for him to study in Paris under Delaroche In 1849 he settled at Barbizon and became famous for his paintings of peasant life, his works including "The Angelus," "The Sowers," and "The Gleaners." He died Jan 20, 1875.

Mill Hill Residential district of London It is 8 m. N.W. of the city, on the L MS. and L N E. Rivs., in the urban district of Hendon Mill Hill School, founded in 1807 for the

Mill Hill School, founded in 1807 for the education of the sons of Nonconformists, has a fine range of buildings and accommodation for about 500 boys The Society of Jesus have a college at Mill Hill

Milling Term applied to the process of grinding corn and other material by steel rollers. It is also used for a process in engineering works by which metal parts are planed to true surfaces. In relation to coinage milling refers to the indenting of the rim of coins to prevent alipping or filing.

Millipede Order of the arthropod class Allied to the 1911111 PCUC myriopoda Allied to the centipedes, the millipedes closely resemble the insects in having air tubes or tracheae opening on the surface by stigmata. The body is long, rounded and segmented, each segment, with the exception of the first four, bearing two pairs of legs

Millom Urban district and market town of Cumberland It stands on the estuary of the Duddon, 9 m from Barrow in Furness, on the LMS Rly The town is a centre of the iron and steel manufacture At one time it had a castle, of which some ruins remain Pop (1931) 7406 Αt

Millport Burgh and watering place of Buteshire It is on the island of Great Cumbrae and is reached by steamer from the Clyde ports Here is the cathedral for the Roman Catholic diocess of Argyll and the Isles, and there is a marine biological station Pop (1931) 2083

Millwall District of London It is on the Isle of Dogs and the borough of Poplar It contains large docks and has facilities for

unloading and storing grain
Millwall Athletic is a famous association
football club The ground is at New Cross
Gate, London, S E

Gate, London, S.E.

Milne Sir George Francis English soldier
Born Nov 5, 1866, he entered the
army as an artillery officer in 1885. He
served in the Sudan in 1898 and in South
Africa, 1899 1902. In Aug, 1914, he com
manded the artillery of a division in France
and was soon promoted, being in turn chief
staff officer of an army, leader of a division
and head of an army corps. In 1916 he went
to Salonica and commanded the British forces
for the campaign that ended in the defeat of
Bulgaria From 1923-26 Milne had a command
in England and from 1926 29 he was Chief of in England and from 1926 29 he was Chief of the Imperial General Staff He was knighted in 1918, made a general in 1920 and a field marshal in 1928

Milner Viscount British statesman Born March 23, 1854, at Bonn, he was educated in Germany and at London and Oxford He became a parrister was private Oxford He became a barrister was private secretary to the Chancellor of the Exchequer and in 1889 was given a post in Egypt As Sir Alfred Milner he was made Governor of the Cape of Good Hope and High Commissioner for South Africa in 1897 He was responsible for the negotiations that preceded the outbreak of war with the Boers in 1899 and his actions at that the time were severals criticized. He helped that time were severely criticised He helped to arrange the peace of 1902 and was made Governor of the annexed areas, the Transvaal and the Orange Free State In 1905 he retired, and the Orange Free State In 1905 he retired, having been made a baron in 1901 and a viscount in 1902 In 1916 he was made a member of the war cabinet and he helped to direct the final operations against Germany In 1918 he was made Secretary for War and in 1919 Secretary for the Colonies He left office in 1921 and died, unmarried, May 13, 1925 Of his books the best known is England in Egypt

Milngavie Town of Stirlingshire 6 m terminus of a branch railway line some waterworks that supply Glasgow Pop 5056

M11nrow Urban district of Lancashire It is 2 m from Rochdale and is a coal mining centre Pop (1931) 8624

Milnthorpe Market town and river port of Westmorland, on the River Kent, 7 m from Kendal It has a coasting trade and is a summer resort Pop 1025

M110 Titus Annius Roman official His fame is due to his connection with Cicero In 57 BC, when he was tribune, he brought about the return of the orator from exile Later, following a quarrel which brought about the death of one Clodius, Millo himself was sent into exile He was killed in a fight in 48 BC Cicero's speech in defence of Milo, Pro Milone, is a popular piece of classical prose

Brazilian coin It is worth about 6d and is issued in gold, silver and paper It contains 1000 reis

coin was formerly used in Portugal

Miltiades Athenian tyrant who was responsible for the battle at Marathon against the Persians This victory, 490 BC was one of the decisive battles of the world Miltiades attacked the Island of Paros to regain control of the Acgean, but was defeated, and on failing to pay a fine of fifty talents, was cast into prison, where he died, 488 B C

Milton Name of several places in Eng Milton-next-Sittingbourne is a market town and urban district in Kent. It is 10 m from Chatham and is reached by the S Rly Another is a little watering place in Hampshire, 6 m from Lymington Another is a village, 4 m from Cambridge

Milton Creek, an arm of the Swale, is famous

for its oysters Paper is made here
Milton Abbas is a model village, 7 m from
Blandford in Dorset. There was once an

abbey here and the fine church still stands Milton Park, near Peterborough, is a seat of

the Fitzwilliam family

the Fitzwilliam family

Milton John English poet Born in
London, Dec 9, 1608, he was
educated at S Paul's School and Christ's
College, Cambridge His early poems, L'Allegro,
Il Penseroso and Lycidas, a lament for the death
of his friend Edward King, show the influence
of country life, as well as the classical learning
and the beauty of language that mark his later
works. Leadas is one of the most heautiful works Lycidas is one of the most heautiful clegies in the English language To this period also belongs the masque of Comus, performed at Ludlow Castle in 1634 After a tour abroad Milton turned to politics

After a tour abroad Milton turned to politics and prose writing His prose works are largely theological in character, for he was a strong Puritan controversialist Aropanhea is the greatest plea for liberty of speech in the English language In the Civil War Milton espoused the Parliamentary cause, in 1649 he became Latin secretary to the Commonwealth, and in 1655 secretary to Cromwell The blindness which fell upon him about 1652 led to the virting of the best known of his sonnets. On writing of the best known of his sonnets, On his Blindness

At the Restoration, he retired from public life and wrote Paradise Lost and Paradise Regained The greatness of its theme, the fall of man, as well as the stately beauty of its verse makes Paradise Lost one of the great poems of the world, and places Milton as second only to Shakespearo among English poets Samson Agonistes, his last poem, was written three years before his death, Nov 8, 1674

Milwaukee City and port of Wisconsin, United States It is on the western shore of Lake Michigan where it has a good harbour, 85 m from ChicagoThe River Milwaukee and its tributaries flow through the town before entering the lake Milwaukee is a great distributing centre Other industries are flour milling and tanning

Pop 578,249

Mimeograph Form of flat stencil duplicator for making numerous copies of a document A wax stencil is made on a typewriter, or otherwise, placed over a sheet of paper when, by passing an inked roller over the stencil and paper a

facsimile is obtained

Mimosa Large genus of leguminous Mimosa plants, natives of the warmer regions of Africa, Asia and America The species sensitive, closing when touched, eg, the Brazilian M pudica, frequently cultivated in greenhouses The so-called mimosa, popular in Covent Garden market, is actually a halfin Covent Garden market, is actually a halfhardy Acacia

Mimulus Cultivated variety of musk (Mimulus moschatus) of the order Scrophylariaceae. It is both annual and order Scrophulariaceae It is both annual and perennial, with large blooms in yellow, golden brown and variegated shades

Min Egyptian god He was a god of fields and highways, but later he became merged in Amon

Mina (or Mynah) Name of various birds

Mina of the starling family, inhabiting

India and S E Asia. One, Acridotheres tristis, regarded by Hindus as sacred to Ram Deo, is often confused with a hill-mina, Gracula religiosa, 10 in long, with purplish-black plumage and yellow bill and feet

Minaret Tall slender balconied tower on tames the Muzzein chants the azan, or Mohammedan call to prayer, to the people Minchinhampton Town of Glou-

from Stroud Minchinhampton Common (660 ft high) is one of the beauty spots of the Cotswold Hills

Minden City of Germany It is on the Weser, 44 m from Hanover, in the district called Westphalia The cathedral is a fine building with some valuable treasures. The place has some manufactures. In the Middle Ages the Bishop of Minden was a prince bishop ruling over a territory of 400 sq m Pop 27,000

sq m Pop 27,000

Near Minden on Aug 1, 1759, a British and
Hanoverian army defeated the French
battle is memorable for the advance under fire of six British infantry regiments, since known as the Minden regiments

Mine Excavation for extracting from the carth metallic ores and other The character of the mine varies greatly with the nature and position of the deposits. In some cases the mine is an open quarry-like excavation, in others horizontal passages or adits are driven into a hill, or again, deep vertical shafts with a complex system of galleries are sunk, needing provision for ventilation and drainage

Explosive engine used Mine Explosive engine usually consists of a charge of high explosive buried in the ground, capable of being discharged either by pressure upon it or by electrical means In naval warfare a mine consists of an explosive charge contained in a metal case provided with are not compulsory projecting detonators which fire the mine when touched by a vessel Numbers are usually laid Mining Art ores

some distance below the surface and near one

another, forming a mine field

Minehead Urban district of Somerset.

It is on the Bristol Channel,

to make the field that the second second in the second s It is a tourist centre, being near Exmoor Pop (1931) 6315

Study of the mineral constituents of the Mineralogy earth's crust The term mineral being applied strictly to inorganic substances which have been formed under conditions unconnected with organic agencies, thus excluding coal, petroleum, amber, etc. Mineralogy as a science has only developed during the last 150 years and in its modern form is linked on to chemistry, physics, geology and crystallography, and includes the study of the form, chemical composition, specific gravity, hardness, cleavage, fracture of minerals and their behaviour in relation to light

Name Waters Mineral to the water of springs containing a high percentage of mineral salts in solution, used on account of their medicinal qualities Mineral waters may their medicinal qualities Mineral waters may be alkaline or saline, sulphurous or chalybeate In England the waters at Bath, Harrogate and Buxton are well-known Among the many Continental springs, those at Baden-Baden, Aix-les-Bains, Spa and Carlsbad are much frequented In some cases the waters are bottled and exported, and under the name of mineral waters are included artifically prepared aerated waters

Minerva Italian, perhaps Etruscan, deity The patroness of all arts and handicrafts, she shared with Jupiter and Juno Rome's worship in Tarquin's temple on the Capitol Her own temple was on the Identified with the Greek Pallas Athena, she became the goddess of war, and victors' spoils were dedicated to her See PALLADIUM

Miniature Term in Art applied to small painting upon vellum, parchment, ivory or other materials. The word is derived from minium or red lead used in writing the rubrics or initial letters in old manuscripts Much of the early miniature painting was done on missals, etc, as a branch of illuminating and very fine work was done by of illuminating and very line work was done by Italian, French and Flomish artists Painting on ivory came into vogue about the 17th century and in England Hilliard, in Queen Elizabeth's reign, and Samuel Cooper, a contemporary of Van Dyck, executed fine miniatures In France this branch of Art was represented by Isabey and Augustin in the 18th century

Minimum Wage Wage fixed by Minimum Wage law as the lowest that may be paid The principle of the minithat may be paid The principle of the minimum wage, operative in Australia and New Zealand, has never been put into general practice in Great Britain, though it has been introduced in certain industries Under the Corn Production Act from 1917 to 1921 a minimum wage was guaranteed to agricultural labourers In those industries which have a labourers trade board minimum rates of wages are fixed by the board Minimum wages are fixed to-day for agricultural labourers by joint committees and for coal miners The trade unions also have their minimum rates of wages, but these

Art of extraction of metallic ores and mineral substances of

economic value from the earth, also the methods of prospecting or searching for minerals. Prospecting entails some knowledge of the principles of geology, and a close acquaintance with mineralogy and some practical knowledge of chemical analysis In the development of mines much of the work the development of mines much of the work falls under mining engineering and many questions have to be considered, such as the continuity of the lode proximity of water and fuel, available means of carriage, etc. Within recent years low grade deposits, hitherto unworked, have been exploited by special mechanical methods and found profitable.

In mining, diverse methods are followed according to the character of the ore deposit, in surface mines excavators, steam navvies and hydraulic jets may be used, while in deeper mines mechanical haulage is needed for trans port of material. Another department of mining is concerned with ore dressing involving the crushing of the ore by hand, stamps or other grinding machinery. The final stage in ore dressing is that of concentration of the material to obtain the requisite degree of purity preparatory to smelting. Electricity is increasingly employed in mining, and according to the report of H. M. Electrical Inspector of Mines was in use at over 60 per cent of the

mines at work during 1934.

Mink (Pulorus) Name of several semi aquatic carnivorous memmals of the wessel family Comprising the European

the weasel family Comprising the European mink or mursh otter, the Siberlan, and the American vison, they are trapped for their furs, the finest coming from Nova Scotia. They are also bred in minkeries for use as ferrets. All emit a disagreeable odour Minneapolis City and river port of the Mississippi, 360 m from Chicago It covers 53 sq m There are many open parks and in one of them are the Falls of Minnehaha, popularised by Longfellow in Haucatha In the river near the city are the Falls of St. Anthony which are used to generate electricity Minneapolis is a great trading centre, especially Minneapolis is a great trading centre, especially The industries include enormous in wheat. flour mills, meat packing factories and machinery works. On the other side of the Mississippi is St Paul, the two being known as the twin cities. Pop (1930) 464,356

Minnesingers Name given to a class mainly in Germany in the later Middle Ages They were not unlike the troubadours. Men of good family, they lived at the courts of the princes, composing and singing lyrical verses and the attendant music

Minnesota State of the United States One of the north central states, it lies to the west of Lake Superior and has Canada for its northern boundary covers 84 682 sq m and is chiefly an agricultural covers 84 682 aq m and is chiefly an agricultural area, but a great deal of iron ore is mined and there are some great industrial centres. St. Paul is the capital, but Minneapolis is larger Another city is Duluth The government is conducted by a legislature of two houses. Pop (1930) 2,564,000 Small freshwater fish of the carp tribe (Leucscus phoxinus)

IVI11110W carp tribe (Leurseus photinus) common in British and European rivers and brooks Normally 3-4 in long, sometimes 7 in. it is dark green, with black patches along the interrupted lateral line

Minor Person under 21 years of age.
In English law he or she is un
able to enter into a contract. See Infant

Minor Name meaning "lesser" applied in music to all intervals one semitone less than major intervals (See MAJOR) A diatonic scale progresses in tones but with semitones between the 2nd and 3rd. 5th, 6th, 7th and 8th, and with an augmented 2nd between the 6th and 7th degrees is in the minor mode, so is the variant with the raised 6th

A minor semitone is a chromatic somitone. The minor tone in acoustics is that in the ratio 10

Minorca One of the Balcaric Islands It covers about 290 sq m Fort Mahon is the capital The surface is hilly, but the soil is fertile, and tropical fruits, such as figs and oranges are grown. It also produces wine and there is some mining Horses and cattle are reared On the islands are some remains of early man and some stalactite caves Pop 42 000

A breed of fowl is known as the Minorca They lay lorge ergs. but are bad sitters

They lay large eggs, but are bad sitters

Minorites Name taken by the Fran-ciscan friars. It was adopted because they regarded themselves as minors or inferior to members of other orders. About or interior to members of other orders. About 1212 a female branch was founded by S. Clara. They were called Minoresses but are now known as Poor Clares They had a house in the Minorles, London, hence this name.

Minorities Groups of people which from the nation of which they form a part. Sometimes these minorities become absorbed into the majority, but they often aspire to an independent life, either wishing to develop their own traditions, or demanding administrative autonomy. Since the World War, minorities have had the same legal rights as the naturals of their country, free exercise of their religion and their mother tongue, and the right to maintain their own schools and charitable institutions. If any of these rights are violated they can appeal to the League of Sometimes these minorities become absorbed are violated they can appeal to the League of Nations for redress

Minos Legendary king of Crete The son of Zeus by Europa, he was a great ruler, who gave good laws and made his kingdom powerful After his death he was made one of the judges in Hades It is probable that there was really a king of Crete named Minos and that the labyrinth at Cnossus was his palace his palace

In Greek mythology, a fabu Minotaur lous Cretan monster, halfman, half bull It was represented as the offspring of a white bull and Pasiphas, wife of King Minos Kept in a labyrinth, it was fed on human fiesh, until slain by Theseus. See CNOSSUR

Minster Village of Kent It is in Thanet, S Rly There is an old and beautiful church and the place once had a religious house

Minster Village of Kent, on the Island of Sheppey, 4 m from Sheerness. At one time there was a convent here. The place is visited by holiday-makers and has oyster beds.

Minster Word used for a large church. It meant really the church of a monastery, and the older minsters were of this kind To-day York Cathedral is often called the minster, and there are minsters at Beverley and Wimborne

891

Minstrel A mediaeval musician, exethough frequently both Minstrels came to England with the Normans They attended the troubadours whose works they performed Unpttached, wandering minstrels were always welcomed, though noble families numbered minstrels among their valued retainers In Elizabethan times minstrelsy declined.

The minstrels' gallery was a feature of the architecture of mediaeval churches and In Tudor and Plantagenet mansions mansions

it communicated with the kitchen

Mint Place where modey is coined under government authority Formerly Mint government authority Formerly there were mints in England at York, Norwich, Chester, Bristol and Exeter, but now money is coined only at the Royal Mint, whose building at Tower Hill, London, was creeted in 1810 Mints have been established at Ottawa, Pretoria, Calcutta and clsewhere Each year a sample of the coinage is weighed and tested by the Goldsmiths' Company, a procedure known as the trial of the pvx. the trial of the pyx.

Mint Genus of perennial labiate herbs
Mint (Mentha), distributed throughout N
temperate regions They have creoping root
stocks, square stems and whorls of purplish
or pink flowers Ten British species include peppermint, pennyroyal and horsemint. From this apparently came the garden spearmint, M wridis, grown for culinary purposes.

Minto Earl of. Scottish title, borne since 1813 by the family of Elliot The first earl was Gilbert Elliot, a Scottish baronet, who was Governor-General of India 1806-14, and died June 21, 1814

His descendant, Gilbert John Murray-Kynvnmound-Elliot, who became the 4th earl in 1891, saw service in Afghanistan, S Africa, Egypt and Canada From 1898 to 1904 he was Governor-General of Canada, and from 1905-1910 Viceroy of India He died March 4, 1914
The earl's eldest son is called Viscount
Melgund, and his seat is Minto House, Hawick

Minton Name given to a fine porcelain made at Stoke-upon-Trent. It was first made by a potter named Minton early in the 19th contury, and is beautifully de-corated. Minton works also won a reputation for their encaustic tiles, their della Robbia, majolica and other glazed ware

Minuet Stately dance in triple time for two persons It originated in Poltou and was tashionable in Paris about 1650 Lully was the first celebrated composer of minuet music Musically the importance of the minuet form increased, until, independent of dancing, it was incorporated into sonata form.

Minute Term applied to a measure of time representing a sixtieth part of an hour, a minute is again divided into sixty parts, giving a second minute or second This division of units into sixtieths dates from very ancient times and was characteristic especially of Babylonian astronomy and chronology

Minutes Word used in connection with meetings of companies and societies. The minutes are a record of the proceedings of a meeting, made by the secretary in the minute book. They are read out at the next meeting, and if correct are signed by the chairman. Their accuracy can be challenged. By company law limited liability companies must Leep minutes at their general meetings, and at those of the directors. A treasury

minute is an order, usually on a financial matter, issued by the treasury Miocene Geological term for the Piiocene and Oligocene It is unrepresented in Britain, but occurring in Western, Central and South-East Europe as well as in America, and India Miocene deposits vary from clay to conscious accordance to the constant of the

conglomerates, some being of marine, others of freshwater origin. The climate of the poriod varied from sub tropical to warm temperate, and animal life included the dinotherium, mastodon, hippopotamus and rhinoceros

Mir Village community once found in the east of Europe, especially Russia The land belonged to the people as a whole, and a village meeting decided matters that concerned the community The mir system existed in the 20th century, but the Bolshevist rule did much to destroy what remained of it

Mirabeau Honore Gabriel IVIITADEAU politician Born March 9, 1749, he spont his youth in profligacy, was imprisoned and sentenced to death, but pardoned in 1782 He then lived precariously on writing until rejected by the nobility, he was elected by Marseilles to the Tiers Ltat of the States General He tried by his great oratory and political sagacity to put the king at the head of the Revolution, by forming a new government on the English plan, but failed through the intervention of Marie Antoinette He died April 2, 1791

Miracle Term, "wonderful work," de-the known laws of nature It is particularly associated with the supernatural factors in Christianity, and pre-eminently the resurrection of Jesus Christ Modern science, which of Jesus Christ Modern science, which recognises the miracle of the origin of life as an indisputable if inexplicable fact, no longer opposes a rigid disbellet to the New Testament miracles, the evidence for which was tested at the time Inquiry is increasingly concerned with those wider laws of nature, hitherto unsuspected, which offer new methods of approach. The view that miracles were primarily designed to attest the truth of the Christian revelation is no longer held

Miracle Play Type of mediaval retinental usage distinguished representations of gospel events or their Old Testament foreshadowings, called mysteries, from miracle plays portraying saintly legends. In England the former term was not used, the miracle play of mediaeval England practically covering both types. to this was added another the both types, to this was added another, the morality play, illustrating similar truths allegorically The removal of the representa-tions putside the Church, the adoption of the yernacular, and lay acting, led to the Elizabethan drama

Mirage Word used for optical phenomena that arise from the reflection and refraction of light in unusual circumstances. They are chiefly seen at sea or in deserts where there is calm air that is

Mirfield Urban district of Yorkshire (WR) It is on the Calder. IVIITHCIC UPPAR district of Yorkshire 5 m from Huddersfield, on the LMS Riy Woollen and cotton goods are made, and around are coal mines Mirfield is the head quarters of the community of the Resurrection, a religious order in the Church of England, founded by Charles Gore in 1892 Pop (1931)

Wiserere Name used for Psalm 51 ("Have mercy upon me O God") It is the greatest of the penitential psalms and is usually attributed to David The name is also used for the ledges placed under seats in the choirs of cathedrals and churches Against this the monks could rest when the seats were turned up and they were standing There are some fine examples in King Henry VII Chapel, Westminster Abbey

Misrepresentation in English law false state ment. A misrepresentation of a material fact is sufficient to make a contract void. In certain cases an action can be brought for misrepresentation

Missal Latin book containing all the liturgical forms prescribed for the due celebration of the Roman Catholic Mass throughout the year After the Council of Trent it was enjoined universally, except where local liturgies were at least two centuries old, 1570 At the Reformation the Anglican Prayer Book, 1549, superseded the ancient Sarum missal The Roman missal last revised in 1884, is now universal in Western Catholicism except for the local Ambrosian, Mozarabic and some monastic rites

Wissel Thrush (Turdus inscivorus) ster, abundant throughout Europe and some parts of W Asia. It is partial to mistletoe berries, hence the name The male, 11 in, is greyish brown above, black spotted white be neath, golden on the rump the song notes are loud and sonorous. The grass lined or mud lined nests shelter 4 to 5 red spotted, greenish

Missenden Great Village of Bucking-hamshire It is 29 m from London and 9 from Aylesbury on the Metro politan and L N E Rlys It has become a popular place of residence for Londoners. Near is the village of Little Missenden

MISSIONS Organised efforts for the spread Christianity has always been a missionary religion. The Acts of the Apostles records its progress from Judges into Europe under the leadership of Paul Later missionaries from the Celtic and other monasteries went throughout Europe In the Roman Catholic Church missionary activity has been carried on by Interpretation of the 18th century witnessed the closing years of the 18th century witnessed a great outburst of missionary enthusiasm William Carey of Northampton founded the Baptist Missionary Society in 1792, and himself went to India as a missionary the following year An important International Missionary Council was held at Jerusalem at Easter, 1928, at which more than one third of the delegates were natives of Oriental or African countries were natives of Oriental or African countries

River of the United Mississippi Wississippi States, the most im portant in the country It rises in a lake in the south-eastern parts of the state of Minnesota and flows to the Gulf of France. It comes from the central plateau of

Mexico at New Orleans It is 2460 m long but Mexico at New Orleans II is 2460 m long but with the Missouri, its chief tributary, it is 4200 m After it is joined by the Missouri at St Louis, it passes Cairo, Memphis, Baton Rouge and Vicksburg IIs tributaries include the Wisconsin Illinois, Ohio, Des Moines, Minnesota, Arkanasa and St. Francis, and its drainage basis covers 1,250,000 sq m At St. Louis the river is a mile wide

The Mississippi is used for navigation and ship canals have been cut to make this possible where there are obstructions It is noted for its floods especially in the lower courses, and tremendous damage was done by them in 1929 Vast sums have been spent on works for regulating the flood water these including the building of embankments or levees and other works for improving the channel

Mississippi State of the United Southern states, it lies to the east of the Mississippi near its mouth and has a coastline on the Gulf of Mexico It is one of the cotton the Gulf of Mexico It is one of the cotton of the Cotton than the cotton of the cotton of the cotton of the cotton than the cotton of the cot growing states, but maize is also produced Jackson is the capital Meridian and Vicks Jackson is the capital meridian and vicas burg are other towns, but none exceeds 50,000 in population The area is 46 865 sq m It is governed by a legislature of two houses, and sends two senators and seven representatives to Congress Pop (1930) 2,009 821

Missolonghi Town of Greece It is on at the Gulf of Patras. In the early part of the 19th century the Greeks fortified it, and three times it was besieged by the Turks It is better known however, as the scene of Lord Byron s death in 1824 There is a memorial to him. death in 1824 Pop 9270

MISSOUTI River of the United States and flows mainly east and north until it joins the Mississippi 20 m above St. Louis, where it is over half a mile wide. It is 2950 m long, being sover half a mile wide. navigable for over 2000 m On it are the water-falls called the Grand Falls Its chief tributaries are the Milk, Yellowstone, Platte and Kansas It passes Kansas City, Jefferson City and other towns The name means "mud river'

Missouri State of the United States on the Control states, its eastern boundary is the Missisphi which divides it from Illinois. It is crossed by the Missouri Its area is 60 420 sq m An enormous quantity of maize is grown in the state which also produces outs wheat and coal Jefferson City is the capital, but St. Louis is much the largest place Kansas City is another populous centre other cities are St Joseph and Spring delid Missouri is governed by a general assembly of two houses, and sends 2 senators and 13 representatives to Congress Pop (1930) 3 629,367

Mistletoe Evergreen parasitic shrub of the order Loranthaceas (Viscum album), indigenous to Europe and N (Viscum album), indigenous to Europe and N Asia. The smooth pendent yellowish green stem, 1 to 4 ft., bears forking branches with oval lance shaped leaves mostly paired, small green flowers and round white berries containing a viscid pulp. The British host plants include the apple black popler hawthorn, lime and willow Associations with early Celtic druidical ritual survive in modern Christmas celebrations, whose supply comes mostly from Normandy and Hertfordshire TM (14 cold, dry, north wind that blows

the country and blows to the sea down the valley of the Rhône It is very damaging to fruit trees

Mitcham Urban district of Surrey It S Rly The industries are laundrying, the manufacture of sweets and the growing of lavender The Wandle passes through the district The fair held every Aug is one of the most famous in England Pop (1931) 56,856

Mitchelstown Town of Co Cork, is 11 m from Fermoy on the Gt S Rlv In 1887 there were riots here in which some lives were lest Pop 2146

Mite Name of small eight-legged inverte-brate creatures of the class Arachinda It forms with ticks the widely distributed order Acarı, which pass through a six legged larval The unsegmented abdomen is usually indistinctly separated from the combined head and thomx Many are parasitic, such as those causing itch, mange and scab, or those affecting mice, rats and poultry Gall-mites cause big-bud disease in fruit trees, "red spider" form a family injurious to cultivated plants, others infest cheese, flour, sugar and copra HARVEST-MITE

Mithras God of the Persians He was the sun god and was regarded as a beneficent spirit Worshipped in Persia, about 68 B o, his worship was introduced into the Roman Empire, and there, especially among the soldiers, it flourished for about four centuries. In art the god is represented as a beautiful youth in the act of slaying a bull

Mitre Henddress worn by certain officials of the Christian Church Originally the headdress of the high priest of the Jews, it was worn by bishops in the 10th century and afterwards, and also by the more important of the abbots Its use was discontinued in the Church of England, but it again came into use In the 19th century, and now most of the Anglican bishops wear mitres on ceremonial occasions

In joinery a mitre is a joint of two blocks or mouldings of a similar pattern at an angle, usually a right angle, divided equally between the two

Mitylene Capital of the island of Lesbos It is a scaport on the east const and has a good harbour Pop 29,500 See LESBOS

Mizpah (or Mizpah) Hebrew name, watch-tower," of several Old Testament places (1) The stoneheap raised by Jacob and Laban, perhaps Jephthah's Gliead home (Gen xxi), (2) Mizpah of Moab, where David placed his family (1 Sam xxii), (3) the land of the Hivites who joined Jabin, near Mt Hermon (Josh x), (4) Gedallah's residence after Jerusalem's fall, NW of Jerusalem (2 Ki xxv)

Mnemonics Art of improving the memory, usually by aid of a system of rules, rhythmic lines or other devices. The Greeks used mnomonic methods for trailing the for training the memory, and in more recent vears many mnemonic systems have been invented Most of them depend upon the association of ideas

Moa Maori name of a family of flat-breasted flightless birds formerly abundant in New Zealand, and now extinct. Apparently exterminated by the Maoris before European colonisation, they are known from remains collected from beds of Pleistocene

age They range from the giant moa, dinorms maximus, 12 ft. high, down to one 3 ft high. Pale green eggs, rounded feathers, and mummifold head age. fled heads and legs have been found

Moab Region anciently occupied by the Moabites, who were traditionally descended from Lot's son Moab (Gen xix) It is a lotty tableland E of the Dead Sea and lower Jordan valley, bounded N by Ammon and S by Edom, and confronts the eastern desert. Its inhabitants were subdued by David (1000 BC)

Moabite Stone Black basalt slab discovered by Klein at Dibon Moab, in 1868 Although subsequently shattered by local Bedouin Arabs, Clermont-Ganneau secured it for the Louyre, Paris Measuring, after reconstruction, 46 ins by 24 ins, by 14½ ins, its 34 lines of primitive Hebrew script record victories against Israel of Mesha, King of Moab, c 850 B C

City and scaport of Alabama, U.S.A. It stands on the Mobile Mobile Bay on the south coast at the mouth of the Mobile River, 130 m from New Orleans There is a large harbour with extensive docks, and the city has a large overseas trade It is also a fishing port and has some manufactures Pop (1930) 68,202

Moccasin Algonkin name of the shoe Made of deerskin or other soft leather, without stiff sole, the upper is often adorned with embroidery, beadwork or coloured sections of porcupine-quills

Moccasin Snake American Snake, (1) the upland copperhead, Anristrodon contorinx, 3 ft. long, (2) the fish and frog-enting water moccasin, A piscivorus, 5 ft long, dreaded by negroes in the rice-fields

Mocha Scaport of Arabia It is on the Red Sca and was at one time a great port for the export of coffee Certain brands of coffee were known as mocha It was formerly the capital of the state of Yemen. Pop 5000

Mocking Bird Popular name of var-ceptional powers of mimicry The common ceptional powers of mimicry the Mimicry N American perching song bird, mimus polyplotius, 10 ins long, is intermediate between the wrens and the babblers Ashy-grey above, soiled-white beneath, the male has a full, the male has a full, and the soiled white beneath, the male has a full, the soiled white beneath the male has a full, the soiled white beneath the male has a full, the soiled white beneath the male has a full, the soiled white beneath the male has a full, the soiled white beneath the male has a full, the soiled white beneath the male has a full, the soiled white beneath the male has a full, the soiled white beneath the male has a full, the soiled white beneath the male has a full the soiled white beneath the male has a full the soiled white beneath the male has a full the soiled white beneath the male has a full the soiled white beneath the soiled w solied-white beneath, the male has a full, liquid personal note, besides imitating the cries of many birds and other sounds

Modder River of South Africa It and flows through that country until it joins the Vanl in Bechuanaland Its length is 186 m On Nov 28, 1899, there was an engagement here between the Boers and the British who forced their way across it with some loss

Modena City of Italy It is 23 m. from Bologna on a tributary of the River Po The chief building is the magnificent It is a manufacturing town and bar

a lirge agricultural trade Pop (1931) 92 757
The territory around Modena formed the independent Duchy of Modena until it became part of the kingdom of Italy in 1868 From the thirteenth century it was ruled by the Esta

Moderator Word used in the Presby-terian churches for a presiding minister Each year a distinguished minister is elected moderator by the General Assembly that meets in Edinburgh In addition every presbytery has a moderator or presiding minister, and one is appointed to look after the affairs of a church that is temporarily without a minister In England the Congregational church has moderators, each in charge of a district At Oxford and Cambridge the examination for certain examinations are called moderators and at Oxford the second examination for a degree is called moderations At Trinity College, Dublin, moderators are those who take the two highest places in certain examinations

Modernism School of thought in the Roman Catholle Church an early 20th century movement sought to adjust dogmat to the generally received conclusions of Biblical criticism Some leaders, notably Tyrrell and Loisy, encountered ecclesiastical censure, culminating in Plus X's encyclical Pascendi gragis, 1907 All cleries were enjoined to abjure modernism in 1910

Modulus Term used in physics It offect produced under certain conditions whose measure is taken as unity. The term is applied in a number of wars thus the medulus of a machine is the ratio of its load to the power in equilibrium, the modulus of elasticity is the ratio of a stress to the accompanying strain, and the gravity modulus is a modulus of elasticity where the unit of force is taken as the weight of a unit mass

Moffat Bursh and inland watering place of Dumfriesshire It is 21 m north of Dumfries, on the L MS Rly, and stands on the Annan Pop (1931) 2006

Moffat Robert Scottish missionary Born at Ormiston, in East Lothian, Dec 21, 1795, he became a gardener, spending his spare time in study He was then trained as a missionary and in 1816 went out to South Africa for the London Missionary Society He was there until 1870 and died at Leigh, near Tunbridge Wells, August 9 1883 A man of great courage, devotion and resource, Moffat was one of the most successful mission aries of the time His daughter married David Livingstone

Mogul Name, a variant of Mongol, given to the empire that existed in India from about 1526 to 1858 It was founded by Baber and continued to exist until after the Indian Mutiny Its emperor, whose capital was Delhi, was called the Great Mogul

Mohair Arab word meaning "select," and used for the fleece of the Angora goat. This has been used for many years for making garments and coverings See Angora

Mohammed Name of six sultans of variant of Mahomet The best known was Mohammed II called the Conqueror (1451-1481) The greatest of his exploits was capturing Constantinople in 1453

Mohawks North American Indian tribe of Iroquoian stock Encoun tered between the St. Lawrence and the Cats kills they were the first natives to obtain firearms, in exchange for pelts from the Dutch, 1614 Becoming the leaders of the Six Nations confederacy, they sided with England in the War of Independence, and migrated to Canada, where several thousands still remain

The word was also used for a lawless band of ruffianly youths of fashion who nightly infested London streets, 1711-12 They atroclously attacked wayfarers of both sexes

Mohicans North American Indian confederacy of Algonkin stock. First encountered in the upper Hudson valley, Mohawk pressure drove them partly into Massachusetts, 1664, a few now occupying a Wisconsin reservation, partly into Pennsylvania where the Delawares absorbed them An offshoot, the Mohegans now extinct, be came the dominant tribe in 17th century New England

Molasses Sweet syrup produced when sugar is refined It comes from both cane and beet sugar It is thick, brown in colour, and has considerable food value Treacle is made from it and by its fermentation rum is produced

Mold Market town and urban district of Flintshire also the county town It is 13 m. from Chester, on the L MS Rly There are some manufactures and around are coal and lead mines Pop (1931) 5133

are coal and lead mines Pop (1931) 5133

Moldavia District of Rumania It lies between Bessarabia and Wallachia and covers 14,700 sq m. Jassy is the chief town It is named after the River Moldava, a tributary of the Screth

Moldavia Soviet republic One of the Russian republics affili ated to Moscow, it is on the left bank of the Dnlester It covers only 3200 sq m, and its capital is Balta

Mole Term applied to a form of breakwater It consists of a stone wall or similar structure built of concrete projecting out into the sea to serve as a protection to shipping and form a haven, or to guide and regulate the currents and tidal flow

Mole Small permanent congenital spot on the skin more or less unsightly it is usually slightly raised, often covered with hair and darkly pigmented, and is sometimes called a birth mark

Mole River of Sussex and Surrey It rises in Balcombe forest and flows through Surrey into the Thames near Molesey It is 30 m long and is noted for its Swallows, places where the river goes underground for a spell These are near Leatherhead

Mole Small burrowing, insectivorous mammal of the family Talpidae Distinct from the shrew it is found in the Nhemisphere The common mole of Europe and Asla, Talpa europaea, 6 in long, with 1 in tail, widespread in Britain, is a muscular earless, almost ey cless animal, feeding mainly on earthworms and nesting in fortresses not to be confounded with molehills The velvety bluish black coats are estoomed by furriers

Molecule Smallest particle of matter composing a compound and consisting of a group of atoms having an independent existence and vet possessing the special properties of the substance in question A simple example is that of common sait or sodium chloride, where one atom of sodium is combined with one atom of chlorine to form a molecule of sait, the resulting compound having characters quite different to those of the compound relements Molecules are regarded as being in ceaseless movement, this energy of molecular motion being heat Further there is an attractive force or cohesion which, under different conditions of temperature and pressure, acts upon the molecules, causing matter to assume either a solid, liquid, or guseous state.

Molesey Urban district of Surrey It stands on the Thames where it is joined by the Mole, being 2 m from Kingston on-Thames and 14 from London, on the S Riv It consists of East and West Molesey Pop (1931) 8460

Molesworth Mary Louisa. English authoress Born in May, 1839, she was the daughter of a Cheshire gentleman, C A Stewart She made her name by her books for children. Among them are Carrots, The Cuckoo Clock, Herr Baby, The Rectory Children, Tell me a Story, Robin Redbreast, Carved Lions, Uncanny Tales, Miss Mouse and Her Boys, and The Boys and I Some of these were written under the name of Ennis Graham She died July 20, 1921

Molière Name adopted by Jean Baptiste Poquelin, the great French dramatist Born in Jan, 1622, his whole life was given to the theatre, beginning as a member and then leader of a small touring company and rising to the position of leading dramatic author of Erance, with the friendship and patronage of Louis XIV His work includes every type of comedy from simple farce to subtle satire, and forms a complete commentary on the people and

customs of his period

ş

t

Ę

His greatest, works are, Les Précieuses Ridicules, L'École des Femmes, Tartuffe, Le Misanthrope, and Le Bourgeois Gentilliomme He died on Feb 17, 1673

Mollusca Sub-kingdom of invertebrate animals, including such forms as cuttle fishes, oysters, whelks and snails. They are soft-bodied, cold-blooded, and lack segments, limbs and internal skeletons, being mostly protected by a shell of one or more pieces, secreted by the mantle or skin-covering. They have an alimentary canal, a mouth, a nervous system, and a heart, the blood being aerated by gills or, in land and most freshwater snails, by a kind of lung Locomotion is effected mostly by a foot comprising the body's under surface which becomes the mussel's thready byssus, the tooth-shell's borer and the cuttle-fish's arms. See Bivalves, Cephalopoda, See BIVALVES, CEPHALOPODA. fish's arms GASTROPODA.

Moloch God of the Ammonites. He is called the abomination of the children of Ammon (1 Kings, xi. 7) He was a fire god and children were sacrificed to him. The name means king

a fire god and children were sacrineou to nim. The name means king MOItke Helmuth, Count von Prussian MOItke Helmuth, Count von Prussian service From 1835.

Born Oct. 26, 1800, at Parchim, he began his career in the Danish army, but in 1822 he entered the Prussian service From 1835 to 1839 he was in the Turkish service, acting as adviser to the Turkish commander-in-chief in the Syrian campaign of 1838-9

From 1858 to 1858 he was Chief of the General Staff in Berlin and reorganised the Prussian army A master of military strategy, he played an important part in the war with Denmark in 1864, and was largely responsible for the Prussian success in the Seven Weels' War with Austria (1866) In the Franco-Prussian war he planned the concentration of the Prussian armies on Metz, which resulted in the French capitulation at Sedan and the investment of Paris by the Prussians He wrote histories of his campaigns for the use of the Prussian General Staff. He died April 23, 1891.

Moltke Holmuth Johannes Ludwig von. German general and nephew of the famous field-marshal. He was born May 23, 1848 At the beginning of the European War he was appointed director of the German operations. He relied on the plans handed on to him by his master, General von Schlieffen, strengthening the Metz-Verdun and Marne lines in the west but leaving only a minimum defence entiret Burgie. a minimum defence against Russia

He was forced to withdraw troops from the west to meet the Russian advance, and was held responsible for the defeat of the Marne He was recalled to Berlin at the end of 1914 as chief of the home General Staff. He died on June 18, 1916

Moiton South Borough and market town of Devonshire It stands on the River Mole, 12 m from Bamstaple and 197 from London, on the GW Rly. It was once a centre of the woollen and lace manufactures It is now chiefly a market for farm produce and has flour mills Pop (1931)

North Molton is a village, 5 m away Moluccas Group of islands in the Dutch East Indies, also called the Spice Islands. They cover 192,402 sq m They lie between New Guinea and the Celebes and the chief are Coram, Halmahe, Buru, Amboyna, Obi, Bachan and other groups The soil is very fertile, the chief products being spice, coffee, cacao, indigo and rice Amboyna is the chief town Pop 893,030

Molybdenum Metallic element, havatomic weight 96 and melting point probably 2,500° C Molybdenum though only found in small quantities in nature has become of economic importance owing to its use in the manufacture of tool steels and the employment of its compounds in making ceramic pigments, and in rubber manufacture The chief source of the metal is molybdenite, a native sulphide occurring in granites and crystalline limestones associated with tin ore, and found in Australia, North America and Norway

Mombasa Scaport of Kenya It is on Scaport of Kenya It is on From here a railway goes to the mainland and it is a terminus of the Uganda Rly Pop

Momentum Term in physical science applied to the quantity of motion in a moving body Momentum is measured by multiplying the mass by the velocity, thus, a body having a mass of one pound moving at the rate of 100 ft per second moving at the rate of 100 ft per second moving at the same appearance. has the same momentum as another body with a mass of 100 pounds moving at 1 ft. per second.

Mommsen Theodor. German historian and archaeologist Born Nov 30, 1817, he studied at Kiel and then examined Roman inscriptions in Italy and France for the Berlin Academy In 1818 he was appointed Professor of Law at Leipzig. He occupied chairs at Zurieh, Breslau, and Berlin, and was a member of the Prussian parliament to the Professor of Law at Leipzig. He and was a member of the Frussian parmament. He was awarded the Nobel prize in 1902. His great works were, Roman History, published in three volumes between 1854 and 1856, and his History of the Roman Coinage, and Roman Provinces He died on Nov 1, 1903

Monaco Principality of Enrope It is on the shores of the Mediterranean, 9 m from Nice and is surrounded by French territory. It covers 370 acres, in it is alonte Carlo lt is governed by a prince who is under the protection of France The prince

MY,

896 MONEY

belongs to the family of Giimaldi, which has ruled Monaco since 968 He obtains his revenue from the gaming tables at Monte Carlo Pop 25,000

Monaco, the capital, is the headquarters the international hydrographic bureau and has a small harbour Pop 2100

Monad Torm used in metaphysics for the primary element or existence as monads or atoms each being a self-contained individuality further, God is the supreme monad and the soul of man a single monad in roology, a monad is a simple unicellular organism belonging to the flagellate infusoria

Monaghan County of the Irlsh Free State In the province of Ulster it covers 499 sq m The Blackwater and the Finn are the chief rivers The soil is fairly fertile and the people live mainly by growing oats, flax and potatoes, rearing cattle, sheep, pigs, and keeping poultry Monaghan is the county town, other places are Castle blayney, Carrickmacross, Clones and Ballybay Pop (1931) 65,131

Monaghan Urban district and county

Monaghan Urban district and county town of Monaghan Irish Free State It is 52 m from Dublin by the Gt. Northern (Ireland) Rly, and is also served by a canal It is an agricultural centre

Pop 4636

Monarchy Form of government in which supreme power is vested in a single individual. It may be absolute, independent of all other authority, and, according to the analytical school of political theory, incapable of legal limitation, or constitutional, subject to a form of constitution, written or unwritten. The English monarchy is constitutional

Monash Sir John Australian soldier Born at Melbourne, Jan 27, 1865 he was educated at the University of Melbourne and became an engineer In 1887 he became an officer in the defence force and when the Great War broke out in 1914, after acting as censor, he led a brigade in Gallipoli Later he went to France in command of a direction and in 1918 became head of the division and in 1918 became head of the Australian corps He was knighted in 1918 and took charge of the demobilisation opera tions In 1920 he returned to his work as an engincer Monash, who was a Jew, died Oct. 8, 1931

Monasticism System of corporate who retire from the world into religious seclusion The monastic life, older than Christianity, is exemplified in Buddhism and among the Essenes In Egypt in the 2nd Christianity, is exemplified in Buddhism and among the Essenes In Egypt in the 2nd century solitary asceticism was practised by many hermits, one of whom S Anthony organised corporate hermitages, c 306, and founded Christian monasticism In S Egypt, a few years later, S Pachomius founded the first cenobium, although the hermits still lived separately Still later S Basil, by prescribing common life under one roof, founded the Orthodox Eastern monastic system

These practices spread westward, notably

These practices spread westward, notably to Ireland, until Europe's unregulated asceti cism was replaced by the ordered life of self denial introduced by S Benedict at Monto Cassino, c 529 His rule, based on the "three substantials," poverty, chastity, and obedience to a superior, thenceforward governed all Western monasticism Subsequent reforms introduced the Carthusian, Cistercian and other

systems, a revolt against corporate monastic possessions gave rise to the mendicant orders, whose members are called friars, not monks.

Monastir Town of Yuroslavia. It is and is chiefly known for its military associations In Nov 1912, in the first Balkan War the Serbians defeated the Turks here, and in 1913 the town was formally given to them In Dec. 1915, it was selzed by the Germans. In Oct., 1916, French and Serbian forces attacked the Turks in the region of Monastir and entered the town on Nov 19 Also called Bitolye, it has some manufactures and does a considerable trade Pop (1931) 32,982

Moncton City and scaport of New Brunswick It is on the Petitcodiae River, 89 m from St. John, on

Mond Ludwig German, March 7, 1839, he was a pupil of Bussen, but came to England in 1864 and settled in Widnes, where he perfected his sulphur recovery process In perfected his sulphur recovery process in 1873 he entered into partnership with Sir John Brunner, and founded the great alkali works of Brunner, Mond and Company at Winnington, Cheshire He made new discoveries in the manufacture of nickel, and in 1876 presented a physico-chemical laboratory to the Royal Activities at a cost of 2100 000. He was Institution at a cost of £100,000 He was the father of the late Lord Melchett (Sir Alfred Mond) He died on December 11, 1909

Monet Glaude French painter Born Nov 14, 1840, he was one of the founders of the Impressionist school A member of the Dégas, Cézanne, Sisley group and a "painter of the open air," he was particularly interested in the effect of light on his subjects He produced a number of studies of cathedrals (1874) and several views of London (1901) He

Money Primarily coins used for purchase of commodities term also includes pleces of impressed paper used for the same purpose and has been extended to cheques, bills of exchange, etc. The money market is the general term for dealings in money in London, New York, and other centres. A money changer is one who changes the coin of one country into that of another. The earliest method of exchanging commodities was by barter, but soon pleces of metal and other substances, shells for example.

modities was by barter, but soon pieces of metal and other substances, shells for example, were used for the purpose Metallic money was first used, it is said, in Lydia For many centuries silver coins were the chief form of metallic money Gold coins were also minted, but to no great extent until the 19th century, when they became the generally accepted standard of value These gold coins, and in their early days gilver coins also, had a value their early days silver coins also, had a value equal to that of the goods they bought. Coins which did not possess this intrinsic merit (eq, the modern silver, nickel and copper coins), were only token coins, their value depended upon the solvency of the country that issued them

In 1914 it became evident that the gold and silver coinage was inadequate to meet the needs of a world at war, and Governments fisued paper money on an enormous scale. The result was that gold coins fell entirely out of use Paper money continued in use after the end of the war, and silver coins were also used to a certain extent. The functioning of money in relation to prices, was a matter of dispute during the serious economic crisis of 1931-32, but economists seemed unable to agree as to the utility or otherwise of increasing the supply of money in circulation

In Great Britain a money bill is one that votes public money for a particular purpose Such cannot be altered by the House of Lords The decision as to whether or not a bill is a

money bill rests with the Speaker

Moneylender One who lends money legislation has been passed in England and other countries to protect the public from moneylenders. All moneylenders must be registered at Somerset House, London, W C 2, and take out a licence which costs £15 a year The law courts have powers to reduce the rate of interest and the amount charged for expenses if they consider such to be excessive An Act passed in 1927 forbids moneylenders to exact compound interest on loans or to increase the rate of interest because the payments are in arrears

Money Market Term applied to Money Market that market where all transactions can be reduced to the buying and selling of ready money against a promise of settlement at a future, definitely defined date. In this are involved foreign exchange movements, purchase of bills of exchange, dealings in Treasury Bills, and fluctuations of the Bank Rate.

Moneywort (Lysimachia nummularia)
of the primrose order, allied to the yellow
pimpernel, a native of Europe Its prostrate
stems, 1-2 ft long, bear rounded 1 in leaves
and solitary, bright-yellow, cup-shaped flowers 2 in across

Mongolia District of Central Asia. It lies W of Manchuria, S of Siborla, and NE of Chinese Turkestan and China proper Inner Mongolia belongs to the Chinese Republic Outer Mongolia has been a republic since 1924 Its area is 1,875,000 sq method country is mountainers and much of the republic since 1923 Its area is 1,870,000 sq m. The country is mountainous and much of it is occupied by the Gobi Desert. Its inhabitants belong to various nomadic tribes, and are cattle breeders and itinerant traders. Urga is the capital. The population is in the neighbourhood of \$50,000

Mongoose Indian name applied to various small weasel-shaped carnivorous mammals. They form a subcarnivorous mammais They form a sub-family of the civet tribe and are indigenous to Africa and S Asia. The Indian Herpestes mun-gos, 15-18 ins long, with 15 ins tail, is fre-quently tamed for destroying snakes and rats The somewhat larger Egyptian mongoose, formerly called the ichneumon, devours crocodile eggs

Monism Philosophic view which refers of reality, whether material or spiritual Certain schools of thought consider the dualism of matter and mind, or body and soul to be parallel phenomena indistinguishable in reality Some, eg, Spinoza, lean to materialistic, some eg, Hegel, to intellectual monism

Monitor Armoured warship intended is 262 m from London by the LNE Rly. Stuated on the north bank of the Wear and therefore of shallow draught A monitor has a low freeboard and bulging sides for defence against torpedo attacks. It is designed for moderate speed and carries one or two guns. The first monitor was designed by Ericsson in

1861 Monitors were used to some extent during the Great War, notably on the Belgian coast in 1914

Monitor Genus of fork-tongued lizards (Varanus), inhabiting S Africa, S Asia and Australasia Long-bodied, with uncrested back and frequently with flattened tails, the head is covered with small scales. All are predactions, powerful creatures, with a partiality for eggs, some are semi-aquatic, and may reach 7 ft

Monk Member of a male monastic order. Usually denoting a Christian recluse, the word, "living alone," is also applied to the members of Buddhist and Mohammedan religious fraternities It was first used of the Christian hermits of 2nd century Egypt, afterwards extended to those who followed a cenobitic or corporate life in seclusion, the female counterpart is a nun See FRIAR.

Monk Bretton Urban district of Yorkshire (WR.) It is 2 m from Barnsley on the LMS Rly There was a monastery here in the Middle Ages, hence the name Woollen manufacture is the chief industry

Monkey Name loosely applied to all mammals of the order Primates except man and perhaps the larger man-like apes Distributed throughout the warmer regions they comprise, besides the long-armed gibbons, an extensive Old World family sharing their posterior callosities, the tails when present being never prehensile, and many possessing cheek-pouches These include the langurs, baboons and macques, one of which is the Barbary ape of Gibraltar American monkeys, are recognisable by the absence of callosities are recognisable by the absence of callosities and cheek-pouches, by possessing four additional grinding teeth, making 36 altogether, and mostly having prehensile tails family comprises the marmosets Another

Monkey Flower (Alimulus) Genus of perennial herbs of the figwort order They are natives of extra-tropical America and Australasia The showy mask-like corollas, sometimes splashed and spotted, yellow, scarlet, purple or white, yield favourite garden flowers, a double-flowered "hose-in-hose" form occurs

Monkey Puzzle Tree name for the

Monkland Canal in Scotland It goes Monkland from the Clyde at Glasgow to the North Calder at Calderbank It is 13 m long and is used chiefly for carrying coal It was opened in 1790 and is now owned by the LMS Rly

Monkshood (Aconium napellus) Genus of hardy perennials of the order Ranunculaceae The leaves are dark green and the hooded shape of the dull blue flowers, which are borne on a long head, have given the plant its popular name Another variety (A napellus bicolor) has Another variety (A napellus bicolor) has violet, blue and white blossoms Wilsoni, a blue monkshood, is a beautiful autumn bloom-The whole plant is poisonous ing variety

Monkwearmouth District of Sunstructed on the north bank of the Wear and is 262 m from London by the LNE Riv. S Peter's Church includes remains of a Benedictine monester.

the Wye, 144 m from London An interesting feature is the bridge with its gateway, over the Monnow The town possesses a collection of Nelson relics The borough includes Troy on the other side of this river The town has a agricultural trade Pop (1931) 4731

Monmouth Born April 9, 1649, he was the son of Lucy Walters and Charles II Very much in favour with the king and the people at first he was created Duke of Monmouth, and became Captain General of the Army As a result of the Rye House Plot he was exiled in 1683 He returned to England in 1085 and led a rovolt against James II, whose Catholicism had aroused the fear of a considerable party in England He was defeated and captured at Sedgemoor soon after landing, and was executed on Tower Hill, July 15, 1685

Monmouthshire county of Eng border of Wales, it is treated for many purposes as part of that country. It covers \$40 sq m., and has a coastline on the estuary of the Severn. Monmouth is the county town, but Newport is the largest. Other populous centres are Pontypool, Abertillery, Bedwellty and others in the coal mining area. The more picturesque aspect is represented by Chepstow and Abercavenny, while the county also contains Tintern, Raglan and Caerleon. The rivers are the Wye Usk Ebbw and Rhymney. The west of the county is on a rich coal field. Monmouth shire contains some of the lovellest scenery in England. There wheat is grown, sheep are reared, and there are many orchards. Pop (1931) 434,821

Monolith Single stone of great size Monoliths are found in Egypt, India, Peru and elsewhere, and are associated with early man Some are plain stones, but others are sculptures One at Baalbek in Egypt weighs 1100 tons

Monoplane Type of aeroplane in which there is only one set of planes or supporting surfaces The well-known Fokker three-engined aeroplanes are of this type, also the Dornier flying boats, Junkors and the British Fairey postal aeroplane See Aeroplane.

MODODY Exclusive right to trade in the Middle Ages and later, it was a very usual practice for kings to give monopolies to subjects, e.g., the monopoly to sell coal in a certain town. These became very unpopular and in 1614 they were forbidden by law Ocrtain still exist, however, but these take the form of patents, the monopoly being granted to the inventor for a certain time In France the sale of matches is a state monopoly, and in Great Britain broadcasting may be described as such.

Monotheism System of religous which recognises only one God. Opposed to polytheism, which worships many gods, manifested in physical, animal or human forms, it claims distinction from systems of moral dualism by asserting the ultimate supremacy of good over wil. Differing from deism, it ranks as revealed religion based upon accred scriptures, and is regarded as theism's highest expression. It is exemplified in Islam, Judaism and, notwithstanding the doctrine of the Trinity, in Christianity See Deism.

Monotype Name given to a form of printing machine It was

invented by an American, Lanston of Washing ton, for composing lines of movable type, each letter being a separate character. It consists of two machines, one a typewriter like keyboard by which the operator perforates a paper roll, each perforation representing a letter, the other a casting machine which works automatically, casting lines of type from the perforated ribbon and arranging them in their proper order. The monotype machine, which is used for printing The Times, has the advantage of a great output and the capacity for printing intricate work, with a very high standard of quality

printing increase standard of quality

NONTO Sir Charles Carmichael, 1st Bar16, 1860, he joined the army in 1879 He served in South Africa and was later commandant of the Musketry School at Hythe During the Great War he served on the Western front as commander of the 1st Army Corps, and later

of the 3rd Army

As commander in-chief of the Mediterranean Expeditionary Force he saved the situation in the Dardanelles by carrying out the evacuation of Gallipoli He was commander-in-chief in India in 1916 and Governor of Gibraltar, 1923-1928 He was created a baronet in 1921

Monroe James American president. Born in Virginia, April 28, 1768, he was elected to the legislature of Virginia in 1782 and in 1785 became a member of the House of Representatives of the United States In 1790 he was elected to the Senate and in 1794 went to France as an ambassador but was recalled in 1796 From 1799 to 1802 he was governor of Virginia and afterwards ambassador in turn in Paris, London and Madrid In Paris he arranged the purchase of Louisiana by the United States. From 1811 17 Monroe was secretary of state In 1816 and 1820 he was elected president. In 1826 he retired from public life and died in New York, July 4, 1831

he retired from public life and died in New York, July 4, 1831 Monroe is chiefly known as the author of the Monroe doctrine In 1823 he recognised the independence of the ropublics in South America, previously under Spanish rule, and in so doing, he declared that the American continents "are henceforth not to be considered as subjects for future colonisation by any European power"

Monrovia Capital and seaport of Liberia It stands on the Atlantic, at the mouth of the St. Paul River Through it much of the seaborne trade of the republic passes It is connected by motor roads with the interior Pop 12,000

Mons Town of Begium It stands on Brussels, and is a coal mining centre and the capital of the district called the Borinage. The chief buildings are a beautiful town hall and a fine Gothic church The town has some manufactures Owing to its position Momens several times taken and retaken during wars with France and until 1862 its fortifications remained. From Aug. 1914 to Nov 11, 1918, it was in the possession of the Germans.

stems of ultimate in grown in the small stacked by the Germans. The two British army corps resisted the attack throughout the army corps resisted the attack throughout the day, but at nightfall, the French on their form of It was

Monsoon the Indian Ocean over southeastern and eastern Asia bringing heavy rain. It is caused by the rapid heating and cooling of the atmosphere in the same way as in the case of the diurnal land and sea breezes of low latitudes. The summer monsoon of India is south westerly and blows strongly across the Indian Ocean, becoming south-easterly up the Ganges Valley and condensing in heavy rains, the heaviest rainfall being in the valley of Assum.

Monstrance In the Roman Catholic Church a transparent 191011Stidice Church a transparent vessel in which the consecrated host is shown to the people for adoration

Lady Mary Wortley English Montagu Montagu letter writer Born about 1690, daughter of the Duke of Kingston, she was famous even in youth for her beauty and wit She was a friend of Alexander Pope, Addison, and other notable literary and society leaders. In 1712 she married Edward Wortley Montagu

In 1716 Montagu was appointed ambassador at Constantinople, and Lady Mary lived with him in the East from 1716 to 1718 It was from the East that her letters, describing Turkish life, were mainly written. She died on Aug 21, 1762

Montaigne Michel de French writer, philosopher and moralist. Born Feb 28, 1533, he lived for the most part at the Chatcau de Montaigne in Périgord He was councillor of the parlement of Bordeaux, and maire of that town Writer of the Essais in which he studies his own nature and that of hypersity as a whole he was restricted. that of humanity as a whole, he was particularly interested in the apparently contradictory elements of human nature, which, he said, are so confusing that it is only with the help of the divine revelation that man can arrive at the His essays are notable for the grace and freshness of their style and for the perspicacity and wide tolerance of the author He died Sept 13, 1592

Montana North-eastern state of the U.S.A. It is situated on the Canadian border. Its products include wheat, oats and fruit, and, among other minerals, gold, congress by 2 senators and 2 ropresented in congress the Union in 1889 Area, 147,182 ag m. Pop (1930) 537,606

Mont Blanc Highest mountain peak the height of 15,781 ft., and is situated on the frontier between France and Italy, the mountain range running in a north-easterly direction. There are a number of smaller associated peaks are the Aignille du Den School and the March as the Aignille du Den School and the March as the Aignille du Den School and the March as the Aignille du Den School and the March as the Aignille du Den School and the March and the peaks, such as the Aigaille du Dru, Alguille d'Argontière, Alguille Verte, Grandes Jorasses, etc., and below are the Mer de Glace and other claciers

Montcalm Louis Joseph, Marquis de French soldier Born Feb 29, 1712, he was in command of the French troops in Canada and captured the British posts of Oswezo and Fort William Henry After the French had lost Louisburg and Fort Duquesne, Montcalm moved to Quebec and was finally routed in battle by Wolfo on the Plains of Abraham. After trying vainly to rally his forces he was wounded and died the next day, Sept 14, 1759

men engaged the British losses were about 5000

Monsoon Seasonal wind blowing from the Indian Ocean over southeastern and eastern Asia bringing heavy rain. It is caused by the rapid heating and cooling of the atmosphere in the same way as in the case of the diurnal land and sea in the case of the diurnal land and sea and the case of the case of the diurnal land and sea and the case of the diurnal land and sea and the case of the diurnal land and sea and the case of the diurnal land and sea and the case of the diurnal land and sea and the case of the diurnal land and sea and the case of the case of the diurnal land and sea and

and covers 6 sq m On it are mineral springs. It gives its name to a famous romance by Dumas, The Count of Monte Cristo

Montenegro Kingdom of Europe, now included in Yugoslavia. It began about 1390 as a principality and was ruled from 1697 by a family called Danilo. It was nominally part of the Turkish Empire until 1878 when it became independent. It received a constitution in 1905 and in 1910 its ruler Prince Nicholas, took the title of king When the Great War began, Montenegro took the side of Serbia The land was therefore invaded by the Austrians, and by Jan, 1916, it was completely in their possession At the end of 1918 they withdrow and the Serbians took their place The Montenegrins then decided to depose Nicholas and unite with Yugocided to depose Nicholas and unite with Yugoslavia The area of the country is about 3630 sq m Its capital is Cetynve, but Jakova is the largest town See Yugoslavia

Monterey City and pleasure resort of California on Monterey Bay, 90 m. to the south of San Francisco It has a good harbour and the industries include shipping and febrica. Page 2100

has a good narroun and the maustres include shipping and fishing. Pop 9100

Another Monterey is a city of Mexico. It is on the San Juan River in the north-east of the country and is famous for the beauty of its

surroundings Pop 81,000

Montesquieu Charles de Secondat, de French political historian He was born Jan 18, 1689 In 1721 he published the Lettres persanes, in which, in the character of two Persian visitors, he satirised the decadence and insincerity of French society His great poliinsincerity of French society his great political treatise, De l'esprit des lois, was published at Geneva in 1748 He was for a long time the President of the parlement of Bordeaux, and then travelled in Europe and became the friend of Lord Chesterfield He had wide vision and deep insight, and his admiration for the tree English constitution had a great rision and deep insight, and his unification for the free English constitution had a great influence on the first part of the French Revolution He died Feb 10, 1755 Montessori Maria. Italian teacher.

a doctor and took a special interest in children of weak intellect. In 1898 she became head of an institution for the education of such children Her methods spread to other European countries and were taken up as a means of educating normal children. She received the Degree of LL D at Durham in 1923 and visited England again in 1935.

The Montessori system aims at developing the child's individuality in every possible way.
He or she is taught to look after himself or herself in every way. Attention is paid to physical training, work in the garden and in the open air is encouraged as well as manual work of one There is a Montessori Society kind or other

in London

Montevideo City and seaport, and capital of Uruguay. It stands on the north side of the estuary of the River de la Plata, 132 m from Buenos Aires, and is well served by railways. It developed with great rapidity in the 19th century and is

now a prosperous scaport and trading centre The port has a fine harbour with ample docks Pop (1932) 655,972

Mexican emperor He Montezuma I annexed Chalco and overpowered the Tlaxcalans He died 1471 Mexican emperor son of Montezuma Montezuma II

I Born 1466, he waged war against Tlaxcala Guatemala and Tehuantopu and greatly en larged his empire In 1519 the Spaniards, under Cortes landed, marched to the capital, and soon made the emparor a virtual prisoner. and soon made the emperor a virtual prisoner In 1520 Montezuma tried to prevent the Mexicans from attacking the Spaniards, but was himself attacked by them and died three

days later

Montfort Simon de Born about 1206, he came to England in 1230 At first a great friend of Honry III, who created him Earl of Loicester, he afterwards fell into disfavour and was sent to Gascony to create a specific of the sent to Gascony to create a specific and was sent to Gascony to create a specific and was sent to Gascony to create a specific and sent to create He returned in 1253 to find quell a rebellion the barons in revolt against the king's foreign counsellors For many years he led the barons in attempts to make Henry rule wisely, and in 1265 called a parliament which was the for runner of modern government. He was de feated at Evesham in 1265 by Edward, Prince Welle and 11124 to bette of Wales, and killed in the battle

Montgomeryshire Wales In the north of the country, it is wholly inland. In it there are several ranges of hills including the Plynlimon range in the south The rivers include the Severn, Dovey, Vyrnwy and Wye and herein is Lake Vyrnwy. The soil, not very fertile, is used chiefly for the rearing Montgomery is the county town accs are Welshpool, Llandloes, of sheep Llanidloes, places Llanfyllin, Newtown and Machynlleth (1931) 48,462

Month Division of the year It may re present a period of twenty-eight days or one revolution of the moon round the earth, known as a lunar month, or it may represent the twelfth part of a year and is then termed a calendar month In the Roman or Julian calendar, which began in March, the months corresponded to our own, with the exception of the fifth and sixth, named Quin tills and Sextilis, which were later renamed

Julius and Augustus

Montmartre District of Parls It is north of the city proper and is famous for its night life and as a centre of Bohemianism

chief building is the basilica of the Sacré Coeur Montmorency River of Quebec It Rows south through the province for about 80 m and joins the St Lawrence just outside the city of Quebec The falls near the mouth are used to generate electric power An electric power with the city with Owener.

railway links it with Quebec.

Montpellier City of France It is
31 m from Nimes, only a few miles from the Gulf of Lyons The university was a famous medical school in the Middle Ages and the city has a botanic garden, the oldest in France The city is a railway junction and has some manufactures Pop (1931) 86 924

Montreal Largest city in Canada It is situated on the island of

the same name at the confluence of the Ottawa and St. Lawrence Rivers, in the province of Quebec It is the commercial capital of the Dominion and between 1844 and 1849 was the political capital also

Shipping is the principal industry, for the St Lawrence is navigable during three quarters St Lawrence is navigable during three quarters of the year, and Montreal is a busy port. It is also a great rallway centre and the CPR. has its shops here Educationally it is of importance, with its two universities, McGill and Montreal The population is largely French The modern city was founded by Maisonneuve, but there was previously an Indian village on the site Pop (1931) 818,577. Montreuil Town of France It is on the River Canche 20 m from

Boulogne At one time Montreull was on the sea but it is now some miles away From March 1916 to the end of the war Montreull was the British general headquarters and near it was the Chateau de Beaurepaine occupied by Sir Douglas Haig

Montreux Pleasure resort of Switzer It stands on eastern side of Lake Geneva, about 50 m. from Geneva It has a station and from here steamers go to other places on the lake

Montrose Royal burgh and Seaport of Angus (Forfarshire) It is 31 m NE of Dundee on the LMS and LNE Rlys, and stands on the South Esk where it forms the Montrose Basin The town received its charter from David I and became a royal burgh in 1352 The staple industry is flax spinning others are fishing shipping and the manufacture of linen Pop 10 196
NA Ontrope Duke of Scottish title held

Montrose by the family of Graham 1505 William, Lord Graham, a title dating from 1445, was made Earl of Montrose John, the 3rd earl, was regent of Scotland and chancellor from 1803 to 1608. His grandson, James, the 5th carl (q v), was the famous soldier who was made a marquess in 1644 the 4th marquess, a supporter of the union between England and Scotland in 1707, was made a duke in that year He was secretary of state, 1716 to 1733, and from him the present duke is descended. The duke s estates are around Loch Lomond but a good deal of the land has been sold. The duke's oldest son is called the Marquess of Graham

Montrose of "The Great Montrose"

From in 1612, he helped to form the Scottish
Covenant, which he at first detended After
turning against the Covenanters he was im prisoned and went to England, but returned in 1644 when the Highlanders rallied round him His campaign against the Covenanters was successful, but he was routed by Leslie at Philiphaugh, near Selkirk He escaped abroad but returned to avenge the execution of Charles I He was then betrayed to Leslie who had him publicly hanged in Edinburgh, May 21, 1650

Mont St Michel Island off the coast of Brittany It is in the Bay of St Michel, 15 m from Gran A causeway about a mile long connects it with the mainland On the highest point of the island is an abbey, now national property The abbey was founded in 708, and the oldest existing building dates from the 11th century Architectural structure, Monument tomb, shrine, sculpture or incised brass used to commemorate some person or important event. Of ancient monumental buildings the famous mausoleum at Hall-carnassus is an example A modern monument of national importance is the Cenotaph in Whitehall Monumental brases of varying degrees of technical skill were common in

Moody Dwight Lyman American evangular Born Feb 5, 1837, he started his work in Chicago in 1856 In 1870 he joined forces with Ira David Sankey and began the "Moody and Sankey" evangelical tour Their campaigns in England in 1873 and again in 1883 caused a great emotional wave of revivalism due to the preaching of Moody and the singing of Sankey Moody and Sankey hymns are still sung

Moon Satellite of the earth It revolves round the earth in 27 days, 7 hours, 43 minutes, and its average distance is about 238,793 m The moon's diameter is about 2160 m, and its mass is estimated at  $\frac{1}{20}$  of that of the earth Owing to the time taken by its axial rotation being the same as that of its revolution round the earth, the moon always presents the same aspect to us It shines by reflected light from the sun and when opposite the sun is called from the sun and when opposite the sun is called full moon, a fortnight later when between the earth and sun it is nearly invisible and is called new moon The effect of the lunar attractive force upon tides is well known The moon's surface shows signs of former volcanic activity in its vast craters and plains

Moonstone Precious stone Sometimes called wolf's eye, fish's eye, or water opal, its reflects a bluish milky light. It is a translucent, colourless felspar, chiefly orthoclase

Moonwort (Botrychium lunaria) Fern of the adder's tongue order, native in Britain and all cold and temperate regions The single stout and fleshy frond, 3-6 ins long, bears close-set pairs of crescentshaped leatlets

George Irish novelist Born in Ireland in 1852, he first studied Moore art in Paris, but turned to literature, beginning with verse, Flouers of Passion (1878) His three great novels are Esther Waters (1894), Ecclyn Innes (1898), and Sister Theresa (1901) In these he imitated the French philosophical novel and "restored in England the Fielding tradition" Hail and Farewell, The Brook. Kerith and Heloise and Abelard are other out standing works. He turned later to drama standing works He turned later to drama with The Coming of Gabrielle (1920), and the successful Making of an Immortal (1928) Aphrodite in Aulis appeared in 1931 Died Jan, 1933

Moore Sir John Scottish soldier Born in Glasgow, Nov 13, 1761, he entered the army and from 1794 onwards saw active service in Ireland, the Netherlands, Egypt and elsewhere He was sent to Spain in 1808 at the head of an army, and was soon given command of the forces there He marched from Lisbon into Spain, but the advance of a large French army forced him to retreat and to fall back on Corunna, to which port he ordered his ships The retreat was a difficult march of 250 m, but nevertheless Moore on reaching Corunnal to less Moore, on reaching Corunna, was able to defeat the pursuing French During the battle on Jan 16, 1809, Moore was fatally wounded by a cannon-ball

Moore Thomas Irish poet. Born May 28, 1779 his best known works include the Irish Melodies (1807), the Ticopenny Post Bap (1813), a satire on the Regent and his friends, Lalla Rockh (1817), for which he received £3,000, The Fudge Family Abroad (1818), and his very fine Life of Byron (1830) He died Feb 25, 1852

English churches from the 13th to 17th centuries

Moorfields District of London To the north of the city, it was followed by gelist Born Feb 5, 1837, he started his work in Chicago in 1856 In 1870 and was built over Finsbury Square and

and was built over Finsbury Square and Finsbury Circus now occupy the site Moor Hen Water-towl The European Mae) is common in England on rivers, ponds, etc Iron grey with greenish wings, white at the edges it swims in a jerky manner, and can run and fly rapidly

Mooring Mast Mechanism to which airships anchor It is so arranged that the airship with its nose fastened to the top of the mast, can swing in any direction with the wind Inside the mast are steps for passengers and crew to ascend, and it contains also mechanism for taking up petrol, water and other supplies There are

and it contains also mechanism for taking up petrol, water and other supplies There are large mooring masts at Cardington, Bedford Moor Park Residence in Surrey It is noted as the residence of Sir William Temple, who bought it in 1632 Here Dorothy Osborne lived and Jonathan Swift met his Stella.

Another Moor Park is in Hertfordshire, near Rickmansworth on the Mct. Rly The house, built about 1670, was a seat of Lord Ebury, but after the Great War he sold it, and the park has been cut up for building land

Moors Name of a people who live in the northern parts of Africa. They are descended from the Berbers or the Arabs, and gave their name to Morocco Some of and gave their name to Morocco Some of them crossed into Spain and conquered a good part of that country There they set up a kingdom which lasted from 711 until 1492, and the southern parts of Spain still bear extensive traces of their influence, especially in architecture They were of no mean repute as scholars Other Moors helped to people, not only Morocco, but also Algiers and Tunis, where they are still found Sec Morocco, Spain

MOOSE Algonkin name, "wood-cropper," of the world's largest species of deer (Alces machles) Ranking as an American variety of the elk of N Europe and Siberia, it formerly ranged from 43° N lat. northward to the specified American parameter Transfer. the so-called Arctic barren-grounds It is disappearing from the northernmost of the United States, but is still found in Alaska and in various parts of Canada, especially towards the N W, being protected in Alberta and elsewhere See Elk.

MOOSE Jaw City of Saskatchewan It is on Moose Jaw River, 400 m. to the west of Winnipeg and the same distance from Calgary It is served by both the transcontinental lines, CPR and CNR, and is the centre of an agricultural district. Pop 24,000

Moraine Term used in geology The rocky material carried along the side of a glacier forms a lateral moraine A median moraine is formed when two glaciers meet The terminal moraine is found where a glacier ends

Morality Play Form of drama that was popular in the 15th century It grew out of the miracle play, the distinguishing feature being to personify the virtues and vices and so inculcate a moral the virtues and vices and so inclicate a moral lesson. The most famous of these plays is Ercryman. It tells how human beings enter upon the journey to which they are called by death. Another of these plays is The Castle of Perseverance, which tells how the human race is tempted by luxury but is saved by penilence

Moratorium Postponement of a debt or other liability, usually for a definite period In Aug., 1914, on the outbreak of war, the government declared a moratorium of one month for bills of exchange In Dec, 1931, Hungary, faced with serious financial difficulties, declared a partial mora During the depression of 1930 32 some public companies secured a moratorium for the payment of their debenture interest.

the republic Part Ωť Moravia Czechoslovakia Ît is in the centre of the country with Bohemia to the west Brunn is the capital and the March, also called the Morava is the chief river lewes united with Austria Hungary in 1849 and from then until 1918 was a province of that empire

Moravian Brethren Protestant body Founded originally after the death of John Russ (1415), an organisation was set up at Beithelsdorf in Saxony in 1727, its leaders being Count Zinzendorf and Christian David Some of its members were Lutherans, but others were persons who had fled from Bohemia to Saxony and were the successors of the Hussites of the 15th century The new faith obtained a footing in England and had chapels in Chelsea and in Fetter Lane London The churches are governed by bishops and elders The Moravians do a great deal of missionary work They have about 40 churcher in England and over 3000 members The headquarters are in Fetter Lane, London, EC4 The whole church is divided into four provinces, Germany, Britain, North America and South America

Moray Former name for the county of cne of the earldons into which Scotland was divided in the later Middle Ages This covered the modern counties of Elgin, Banff, Nairn and

part of Inverness

Moray James Stewart, Earl of Born in 1531, the natural son of James V of Scotland, he opposed Mary, Queen of Scots in her marriage to Darnley, and was partly re sponsible for the murder of Rizzio, her secretary When Mary was imprisoned in Loch Leven by the rebellious nobles, Moray was appointed Regent He was known as the "Good Regent and did much to restore civil and religious peace in Scotland He was shot on Jan. 23, 1570, by one of Mary s supporters

Mordant Substance used in dyelng to fix a dyeln a fabric by forming an insoluble compound with the colouring matter, or by acting as a medium for absorbing the dve Alumina and aluminium salts, ferric oxide, and salts of tin and chromium are used as mordants, also oil mordants in Turkey red

dyeing

Mordecal Jewish exile He figures in the Old Testament Book of Esther as the queen's protector and relative, who co operated with her in frustrating the

vizier Haman s anti Jewish plots

More Hannah English authoress Born at Stapleton, Gloucestershire, Feb 2 1745, she came to London in 1774, and became a friend of Dr Johnson and of Burle Garrieb became a friend became a friend of Dr Johnson and of Burle Garrick produced her tragedy, Percy, in 1777, but after his death she renounced the theatre and became a philanthropist, starting Sunday Schools in Cheshire, and organising a move-ment of which the outcome was the Religious

Tract Society She wrote many religious books and bequeathed all her money to charity and religious institutions She died Sept. 7 1833

Sir Thomas English scholar and 1478 he was a son of a judge, Sir John More Ho went to Oxford and then settled in London, where he studied and then lectured on law He obtained an official position in the city and was elected to the House of Commons Thomas Wolsey formed a high opinion of him and ap pointed him Treasurer of the Exchequer and Chancellor of the Duchy of Lancaster, whilst the Commons chose him as Speaker He went to France and German; on public business, and in 1529, succeeded Wolsey as Lord Chancellor In 1532 he resigned that office and in 1534, for refusing to recognise the king as head of the church, he was accused of high treason On July 7, 1535, he was beheaded. He was beatified in 1886

More is one of the most attractive characters in English history, and has a permanent place in English literature He was a member of the alrele of scholars and humaniste that included Erasmus and Colet He wrote a History of Richard III as well as the immortal Utopia.

Morecambe Borough and watering place of Lancashire It stands in Morecambe Bay, 34 m. from Lancastor, on the L M S Rly Fishing is the chief occupation Pop (1931) 24,600

Morecambe Bay Opening of the Irish Sea. It cuts into the coasts of Lancashire and Westmorland and is 10 m. across At low tide it is largely sand. The Lune, Wyre, Kent and other rivers flow into it.

Moresnet District of Belgium. It is on the border of Germany just outside Aix la Chapelle In 1816 it was placed under the joint control of Germany and the Netherlands In 1541 it was put under a burgomaster and council, and the inhabitants could be either German or Belgian citizens at choice. In 1919 it was handed over to Belgium Here are zinc mines Pop 3000

Morgan John Pierpont. American finan-cier and banker Born at Hart-ford, Connecticut, on April 17, 1837, he was the son of a banker and entered the family firm in 1864 This later became the firm of Morgan and Company, and, largely through his financial ability, became one of the most powerful banking houses in the world It organised the Steel Trust formed an Atlantic Shipping Combine, controlled railways, etc He was a yachtsman collector and philanthro pist and died a multi millionaire on March 31, 1913 in Rome His son John Pierpont, placed contracts and raised loans for the British Government during the War

Morland George British painter Born of the crayonist Henry Morland who brought him up with such strictness that when he became his own master, he went steadily downwards through drink and debt. He such painted chiefly country subjects, £Ω gipsies and farm interiors. His pictures are remarkable for their beauty of conception and harmony of colouring "The Inside of a Stable in the National Gallery is one of his finest works He died of brain fever and in poverty on Oct. 29, 1804

Borough and market town of Yorkshire (WR) It is 4 m. Morley

(1931) 23,397 Viscount English writer and statesman Born at Blackburn, Morley Dec 24, 1838, John Morley was the son of a doctor He went to Cheltenham College and then to Lincoln College, Oxford In 1867 he became caltor of The Formushily Review During the next 10 years he wrote his studies or Voltaire, Rousseau, Diderot and other French thinkers, and a book. On Compromise These and the writings published as Cruical Miscellanies, reveal him as a thinker, a scholar and a stylist. He wrote also Luces of Burke and Cohden and was recognised as the leading exponent of philosophic radicalism. In 1880 he exponent of philosophic radicalism In 1880 he became editor of The Pall Mall Gazette, but he resigned in 1883, the year after he had given

In 1883 Morley entered the House of Commons as M.P for Newcastle-on-Tyne, and when Gladstone declared for Home Rule, he was one of his leading supportors. He was Chiel Secretary for Ireland in 1886 and again, 1892-95 He was Chief In 1895 he lost his seat at Newcastle, but in 1896 was returned for the Montrose Burghs Soon after Gladstone's death, he withdrew from public life, while he wrote the monumental life of that statesman, published in three volumes, in 1904 In 1905, when the Liberals returned to prove the become Sometary for Indian

to power, he became Secretary for India, a post he held until 1910 In 1908 he was made a viscount, and he was Lord President of the Council from 1910 until he resigned on the outbreak of war in Aug, 1914 He died Sept. 23, 1923, when his title became extinct. His many technical the Cold With writing in honours included the O.M. His writings, in addition to those mentioned, include Studies in Literature and a Life of Walpole He edited the English Men of Letters series

Mormons Religious organisation en-titled the Church of Jesus Christ of Latter-Day Saints, founded by Joseph Smith in New York State, 1830 So-called Christ of Latter-Day Saints, founded by Joseph Smith in New York State, 1830 So-called divine revelations included a pretended history of primitive America, The Book of Mormon, claimed as of equal authority with the Jewish and Christian scriptures. The church spread rapidly to Ohio, Missouri and Illinois, secured many prosclytes in England and sent missionaries elsewhere In 1843 the prophet received a "revelation" permitting polygamy, during the "Gentile" indignation thereby aroused he was shot.

Brigham Young, who during the "Gentile" indignation unergy, who aroused, he was shot. Brigham Young, who succeeded, lid the church in 1847 to Great Salt Lake, afterwards constituted the Utah Salt Lake, afterwards consumer Concerning Prolonged controversies Concerning Controversies Concerning Controversies Concerning Controversies Controversies Concerning Controversies Controversi plural marriages culmimated after Young's death in their estensible abandonnent, 1890. The community now exceeds 600,000, with The community now exceeds 600,000, with \$2 churches in Great Britain The Reorganised Church of Latter-Day Saints, after Smith's death, distrusted Young and repudiated polynamy, accepting the founder s son as president, 1860. Now numbering about 100,000, their headquarters are in Independence, Missouri

Morning Glory Popular name of twining herbs of the bindweed order It refers especially to the tropical American Ipomoca purpurea which cardeners call alternatively Convolculus major It has alternate, toothless, heart-shaped leaves and large five-lobed, funnel-shaped corol-Ins, purple, azure blue, crimson, striped or his. Ity-leaved and other forms occur. Party in the L C c since 1934.

MOTOCCO Country of N. Africa. It has He published Socialism and Transport How Greater London is Governed (1935)

from Leeds and 183 from London, by the ranean Sea and Atlantic Ocean, while Algeria L N E. Rly. The place is a centre of the woollen hes to the West The total area is 213,350 sq m. which is divided into three territories, French, Spanish and International

The native population consists largely of Berbers and Arabs, and there are also many Jews The European population is chiefly French, and there are British colonies at Casablanca and Tanglers

Agriculture is the main industry in all terri-Agriculture is the main industry in an verritories. A great irrigation scheme was begun in 1927. There is some mining, phosphate being the most important mineral so far exploited. The chief towns are Fez, Marrikesh and Rabat. The country is ruled by a sultan under French protection. Pop 5,300,000

Norpeth Borough and market town of Northumberland. It is 284 m from London and 17 from Newcastle-on-Tyne, by the L. N. E. Riv., on which line it is a junction. The industries included brewing, malting and coal mining, while cattle fairs are help. Near

coal mining, while cattle fairs are held Near are the Bothal Castle and the ruins of Newminster Abbey Pop (1931) 7390

Worphia (or Morphine) Name given to the principal alkaloid in opium, morphia was isolated in 1816 It occurs of the principal alkaloid in opium, morphia was isolated in 1816 It occurs of the principal alkaloid in opium, morphia was isolated in 1816 It occurs

either as a white amorphous powder or as transparent acicular crystals soluble in alcohol but insoluble in water Morphia is used in medicine on account of its soporific and anodyne properties, although excessive doses are possonous and fatal Its import and export is regulated by licence under the Dangerous Drugs Act

Morris William English poet. He was born March 24, 1834 He first tried painting as the result of his close friendship with Burne-Jones, but in 1858 published The Defence of Guenevere, and in 1867 The Life and Death of Jason. His best known work is The Earlily Paradise He contributed to the movement which tried to bring about a revival in decorative art in England and started the Kelmscott Press in 1890. In his later years he was a pronounced socialist, and showed sympathy with the poor by lectures and writing, but he was always more writer, poet and artist than politician. He died Oct. 3, 1896

Morris Dance Dance very popular in the 16th century Its name shows that its originators were the Moors, and it may have been introduced into England by Eleanor of Castile, the wife of Edward I. It was danced at village firstivals The characters included Robin Hood and Maid Marian, and a hobby horse was usually introduced. There has been a revival of the Morris dance in the 20th century

Morrison Herbert Stanley English poli-tician Born Jan. 3, 1888, he worked in a shop as a telephone operator Later he became connected with the newspaper industry and came to the front as a socialist politician. He was elected to the London County Council and rose to be the leader of his party there. In 1923-24 and 1929-31 he was MLP for South Hackney, and from 1929-31 he was Minister of Transport. He conducted the Road Act of 1930 through the House of Commons, and was regarded as one of the most successful of the Labour ministers He lost his seat at the General Election of 1931 but regained it in 1935 In 1920 Morrison was Mayor of Hackney, in 1928-29 chairman of the Labour Party, and has been leader of Labour Party in the L C C since 1934.

He published Socialism and Transport (1933), How Greater London is Governed (1935) worked in a shop as a telephone operator Later

other industries

Morse Code System of signalling primarily intended for use by telegraph operators, but since extended and modified for army and navy signalling. It was devised by Samuel F. B. Morse, in collaboration with Alfred Vail, in 1837 for tele graphic purposes, and consists of a series of dot and dash symbols representing letters of and assa symbols representing letters of the alphabet, numerals, punctuation marks and conventional phrases, these signs being combined in various ways. In signalling the code is used by day by means of flags or the hellograph, and by night by lamp signals. A modified code known as American Morse is used to some extent in Canada and the United States. States

Mortar Cementing material used for bind ing together bricks or stones in Mortar for brickwork consists of buildings quicklime and clean grit or sharp sand mixed with water, and for courses of ashbar masonry a mixture of slaked lime and water known as mason's putty The term mortar is applied also to a vessel of porcelain, iron, agate or other materials in which substances are reduced to a powder by means of a pestle, or in oro dressing by a steel shoe

Mortar Type of cannon formerly much at a short range and at a high angle The barrel was thick walled with a smooth bore and leaded at the muzzle, the whole being mounted on a strong frame or bed In the Great War modi fications of the older type of mortar were used by both combatants, these taking the form of weapons which could be thrown into the opposing trenches

Mortgage Name for a charge on land nouses It is a loan secured on the property in question and a great deal of money is lent in this way by building societies The lender or mortgagee can give notice, usually six months, that he wants his money repaid If this is not done he can sell the property, and after taking what is owing to him, hand over the balance to the mortgagor who is the legal owner of the house, as he possesses what is called the equity of redemp flor Alternatively he can apply to the court for an order permitting him to foreclose, or take over the property entirely The details of a mortgage are contained in a deed which must bear a stamp This costs 2s 6d for every £100 or part of a hundred Mortgages can be sold, a transfer stamp being required

Mortise Term in joinery and masonry for a cavity cut in a piece of wood or block of stone to receive a shaped end or tenon of another piece. This form of joint is used to give stability and strength, and an example of mortised work in stone is seen in the trilithons at Stonehenge

Mortlake District of Surrey It is on the Thames, near Richmond, the Thames, near Richmond, the first the Discourage of the Place where the Oxford and Cambridge boat race finishes In the 17th century it was famous for its tapestries, and in the 18th for an enamelled stoneware called Mortlake ware

Mortmain Word meaning "dead It was used in the Middle Ages by lawyers for land that was

Morriston River of Scotland It is given to the church and so never became liable to the dues payable on death, as other Loch Ness in Inverness shire at Invermeriston A suburb of Swansea is named Morriston A suburb of Swansea is named Morriston tion, never died Landowners sometimes made over their lands to the church, but retained over their lands to the church, but retained the available taxation In 1279 the revenues, thus avoiding taxation In 1279 a law was passed forbidding persons to pass any land into mortmain. To day there are any land into mortmain. To day there are many exceptions in English law to the rule that corporations may not hold land Public companies railway and other companies formed by act of Parliament, and local authorities can buy and own land Charitable trusts can also own it, but if the amount is over two acres they must obtain a licence from the Board of Trade

Title borne by the Morton Earl of Title Borne b, and family of Douglas since 1458
The most important of the 20 carls was James Douglas, the 4th holder of the title He became earl in 1553, and was one of the leaders of the party opposed to Mary, Queen of Scots He was concerned in the murder of Rizzlo and Darnley and fought against Mary at Langside He was made Regent of Scotland in 1572 For complicity in the murder of Darnley, years previously, he was condemned by an assize, and executed on June 2, 1581 The carl's eldest son is called Lord Aberdour

Morton John Archbishop of Canter cardinal and statesman Born about 1420, he began as an ecclesiastical lawyer and took a prominent part in the Wars of the Roses on the Lancastrian side After the victory of the Yorkists, he was reconciled to Edward IV and became Master of the Rolls in 1474 Arrested by Richard III, he escaped and supported the Earl of Richmond, later Henry VII He was principal adviser to Henry Archbishop of Canterbury in 1486 and Lord Chancellor in 1487 He was created cardinal in 1493 and died on Oct 12, 1500

Mosaic Term applied to a surface formed of small pieces of various stones, tiles, metal or glass, and used for making floors or for covering walls, vaults and columns Roman mosiac was used chiefly for flooring, but in Byzantine architecture the art of mosale work reached its height as mural and pictorial decoration inlaid cubes of many-coloured marbles glass and enamels being used Fine mosaics of the early period are to be seen in St. Mark's, Venice, and the churches of Ravenna

Ancient capital of Russia, now the capital of the Russian Moscow Union of Socialist Soviet Republics It bas a fine situation on seven hills, and is full of historic interest. The Kremlin is the ancient citadel Here is the Great Palace and other famous buildings, including the Uspenski Cathedral the coronation place of the Tsars

Moscow is an important commercial and railway centre, being the starting point of the Trans Siberian Rly Its industries, temporarly hindered by the Revolution, have revived again, and the population has increased with astonishing rapidity In 1930 it was 2 781,300 it has not have been considered in the best of the control of the It has nine broadcasting stations The two most powerful operate on 1481 M., 100 kW, and 1304 M, 100 kW

Moselle River of France and Germany It rises in the Vosges and flows through Alsace Lorraine into Germany, where at the Coblenz it falls into the Rhine It is 320 m long and much of its course is navigable Its chief tributaries are the Meurthe and the Saar It gives its name to a light wine that is made from grapes grown in the valley

MOSES Hebrew law-giver and leader Son of Amram and Jochebed, and younger brother of Aaron and Miriam, he was adopted by Pharaoh's daughter, educated as an Egyptian prince, and undertook pastoral pursuits in Midian Returning to Egypt, he became the leader of the Israelites and after the Exodus, led them to the outskirts of Canaan, dying near Mt Pisgah Posterity ascribed to him the first five Old Testament books and the legislative code embodied therein

Mosley Sir Oswald Ernald English
a son of Sir Oswald Mosley he was educated at
Winchester and Sandhurst, and entered the
army Having served in France, he was
elected Unionist MP for Harrow in 1918
In 1924 he joined the Labour Party In 1926
he was elected MP for Smethwick In 1929
he became Chancellor of the Duchy of Lan
caster in the Labour ministry, but differed
from his colleagues and resigned In 1931 he
formed the New Party, but at the General
Election of that year he and his colleagues
failed to secure election For a short time he
controlled a paper called Action Since then his
specches as leader of the Black Shirt Movement
have attracted much notice In 1928 he suc
ceeded to the baronetoy In 1920 Mosley
married Cynthia, daughter of the Marquess
Curzon She was Labour MP for Stoke-onTrent, 1929 31 She died in 1933

Mosque Mohammedan house of prayer Normally an open quadrangular court with a fountain for ceremonial ablutions surrounded by an areaded sanctuary, with a wall niche indicating the direction of Mecca a pulpit and sometimes a lectern, it is completed externally with a dome and minorets

Mosquito General name given to incide or gnat family A number of species occur in Great Britain These insects pass their larval stage in stagnant water, and the female only is provided with biting mandibles, the male being quite harmless The tropical renus, Anopheles, is a carrier of the malarial parasite, and other species of the parasite of yellow fever

Mosquito Coast Low lying territory along the W coast of Nicaragua, fronting the Caribbean Sea About 225 m long, averaging 40 m wide, it bears an aboriginal name, corrupted by early European settlers Great Britain exercised a protectorate, 1655-1860, when Nicaragua ac quired suzerainty, the Indians retained autonomy, withdrawn in 1906, and resided in the Mosquito Reserve since renamed

MOSS Group of cryptogamic plants forming a division of the class Bruophula and closely related to the liverworts. While their structure is cellular, vascular tissue being absent, a conducting tissue is present and the plant body is differentiated into an apparent stem and leaves. Like the forms, alternation of generations occurs, the moss plant representing the sexual stage bearing the sexual elements or "flowers," with the spore capsule borne upon the moss stem as the asexual generation

MOSSel Bay Seaport of Cape Pro vince, South Africa It is 318 m to the east of Capetown, and is connected with that city and other places by railway It is a port of call for ocean steamers and has a harbour protected by a breakwater It is noted for its oysters Pop 5700

Mossley Borough and market town of Lancashire It is 10 m from Manchester, on the L MS Rly, and is situated on the Tame Hero are engineering works and textile factories Pop (1931) 12,041

## Most Favoured Nation

Clause inserted in many commercial treaties between countries. It means that the two nations making the treaty will not give to any other nation advantages in the matter of tariffs greater than they give to one another There were eases in 1932 of the violation of this principle, but protests were promptly made by Great Britain

Mosul City of Iraq It is on the right bank of the Tigris, 220 m north of Bagdad, and, being on the road to Persia, has 'ong been an important trading centre Under the Turks it was also a military station. The word muslin is a corruption of Mosul Opposite the city, across the Tigris, are the ruins of Ninevoh Mosul was occupied by the British in Nov., 1918. Pop. 80,000

in Nov, 1918 Pop 80,000

The vilayet of Mosul is rich in oil and an international company has been formed for working it the construction of a pipe line

arranged

The ownership of the vilayet was a matter of dispute after the Great War, as it was claimed by both Turkev and Iraq, the latter then controlled by Great Britain In 1925, negotiations between them having failed the League of Nations decided in favour of Iraq, and the boundary line was fixed, with a neutral zone of 50 m on each side. The inhabitants accepted this decision, but they were not altogether satisfied when the mandate given to Great Britain came to an end and Iraq became an independent state.

Motet Short piece of musical composition largely in the church music of Tallis, Palestrina and other composers. The music is contrapuntal in style with great delicacy of expression

Moth Lepidopterous or scale-winged insect of the division Helerocera. It has variously-shaped feelers, as distinct from a butterfly of the division Rhopalocera, with club like feelers. Their feelers may be threadlike, spindle shaped, comb-like or feathery, but never club like. Moths usually fly during twilight or at night, but this characteristic is noither scientific nor invariable. Most have the fore and hind-wing on each side linked in flight by a bristle and catch, which butterflies lack. Both butterflies and moths have spiral probosces for imbibing food, and scales covering body and wings, except in the clear wings. The most important economically, are those whose larvae produce silk

Mother-of-Pearl Nacreous or inner of the pearl oyster, used in the manufacture of buttons, ornamental articles and for inlaying of the several trade varieties, white mother of-pearl from Thursday Island and the Great Australian Barrier Reef is the best, other grades are the yellow edged shell from Burma and the black-edged from various Polynesian islands

Mother of Thousands

Popular name applied to two unrelated flowering herbs (1) The European ivy-leaved toad-flax of the flgwort order, long naturalised in Britain (Linaria cymbalaria) Its yellow

lipped bluish purple flowers like miniature joining it to the transmission gear, but the antirrhinums, suit hauging baskets (2) The power is transmitted to the driving wheels in creeping sallor or strawberry geranium of the various ways, and the arrangement of the satifrage order, from L Asia (Saxifraga sarmentosa), is a favourite cottage window plant.

Motherwell Burgh of Lanarkshire It from Glasgow, on the LMS Rly The chief industries are coal mining and engineering since 1920 the burgh has included Wishaw Pop (1931) 64 700

Perennial labiate horb Motherwort (Leonurus cardiaca) Growing in British hedgerows and waste places, it is indigenous throughout Europe and N and W Asia It is a downy, aromatic plant with erect stem 2 4 ft. high, much divided lobed and toothed leaves, and dense whorls of small

Motion Act of moving, or change of damental condition of matter, as the smallest particles, atoms and molecules, are in a state of constant movement. Consequently motion has not to be maintained, but may be accelerated, retarded or changed in direction under certain conditions To explain the nature of motion, Newton framed three fundamental laws, the first being that all bodies remain in a state of uniform motion in a straight line, except under the action of an external force, the second law states that under this action acceleration of the body occurs in proportion to the force, and according to the third law the action of every force is opposed by an equal and opposite reaction

Motley John Lothrop American historian 15, 1814, he achieved fame with his Riee of the Dutch Republic (1856), a work that had taken him 10 years to write This was followed by a History of the United Netherlands (1860 69) In 1861 67 he was minister of the American Government to Austria, and in 1869 70 minister of Great Britain He diled on May 29, 1877 to Great Britain He died on May 29, 1877

Motor Term used in a general sense for different forms of machines employed as prime movers Examples are the various types of engines—steam gas, oil or petrol, hydraulic motors and electric motors Electric motors for converting electrical energy into mechanical energy are classified as direct current and alternating current motors, the current and atternating current motors, the latter type being the most extensively used. The direct current type is still, however employed for many purposes, being most suitable for high speed passonger lifts, rolling mills, colliery winding and certain kinds of machine tools. Direct current motors are stylengially and recognitive results. shunt or compound wound either series, machines, according to the method of winding the insulated colls on the armature and magneto

Motor-Car Name given to a self propelled road vehicle driven, et the present day by a petrol engine vehicle Steam driven vehicles came into use in the carly 19th century, but the invention of the petrol motor in 1854 brought in a new type of engine which rapidly superseded the old type

A motor-car consists of a metal frame work or chassis, which supports the body the driving mechanism engine, wheels, axles brakes, etc. The engine, fixed usually in the fore part of the chassis has a friction clutch

various ways, and the arrangement of the ongine, transmission, mochanism and driving axle also varies in different types of car In ordinary motor-cars transmission is by the shaft drive, but many commercial vehicles still retain the older chain drive. The body varies considerably according to the type of our In some makes there is a folding hood, in others the seating accommodation is perman ently enclosed. The racing car type has a specially designed body with wedge shaped radiator and conical rear end to give the mini mum of air resistance

Private motor-cars are taxed at a rate of 15s per horse power per annum, the minimum tax payable being £1, 10s Commercial vehicles are taxed according to their type, and coaches and omnibuses according to their seating

accommodation

Motor-Cycle Two wheeled vehicle by an internal combustion engine of either one, two, three or four cylinder power, with beit or chain transmission, and with or without a sidecar The term also includes in a broader sense certain kinds of three wheeled cars

A motor-cycle not exceeding 8 cwt. in weight unladen is taxed according to the cylinder capacity of the engine—150 cubic centimetres or less, 12s, 150, 250 cc, £1, 2s, 6d, over 250 cc and not over 224 lbs weight, £1, 2s, 6d if taken out before Jan 1, 1933 in all other cases £2, 5s. There is an extra 15s in each case for a sidecar. These licences now may be taken out in a contrast of the contrast sidecar These licences now may be taken out in quarterly payments of 271 per cent of the full annual tax

Motor Mark Identification mark all on registration it consists of index letters, representing the county or borough council followed by a number Motor marks are displayed on plates in a prominent position on the vehicle, the rear plate being illuminated. In motor-welles plate are corried at the fewer and motor-cycles plates are carried at the front and rear both being illuminated Recently the size of the letters and figures has been increased to render identification easier

Motor Racing Competitions for motor vehicles com menced in 1894 on the continent, especially in France, on suitable circuits on roads Among the first were the Gordon Bennett races for reliability and speed for teams of touring cars from each competing country The Grand Prix was established in France 1906, to enable individual makes to compete with one another Brooklands track was constructed in 1907 to remedy the fact that England, having no suitable testing place, suffered in these com petitions Races and tests are now common events in England on the continent and in America and extend to motor-cycles, on the road—the Tourist Trophy races, and on special tracks—speedway racing and to motor boats

Mottram Ralph Hale English author He was born in 1883 As a result of his war experiences, he produced the Spanish Farm trilogy, which brought him immediate fame He has written since then Our Mr Dormer, The English Miss, A History of Financial Speculation Europa's Beast, Castle Island, The Lame Dog and Flower Pot End Moufflon Species of wild sheep now con fined to Corsica and Sardinia Standing 28 in at the withers,

it has short, non-woolly hair, with abundant, under wool, the ram's curved horns may attain a length of as much as 29 in With the Asiatic urial it was probably the ancestor of the domesticated sheep, with which it inter breeds freely

Mould Loose, fine, crumbly earth, such as constitutes surface soil Leafmould is rich in organic matter. The word also denotes furry growths of minute fungi, developed on animal and vegetable substances exposed to damp

Moulding Term applied in architecture and joinery to a concave or convex surface on wood or stone It forms "staff"), or a combination of both Of Greek and Roman mouldings there are eight types which can be geometrically constructed—the illet, astrogal, torus, ovolo, scotia, cavetto, cyma recta and cyma roversa. In Renalssance architecture the moulding was confined chiefly to the cornice, but in Gothic it became very elaborate, especially on arches Moulmein Seaport of Burma, at the mouth of the Salween River

Pop 61,300 Moulting Periodical shedding of the outer covering of animals especially the feathers of birds. It occurs at least once annually, after the breeding season, a second moult occurs in the cases of some birds with a special breeding plumage, cg, ducks, while there may be even a third for the white winter dress, cg, ptarmigans Snakes slough their skins correspondingly. The name denotes also analogous, but not identical, processes in various invertebrates, 7, the external shell of crustaceans and the

There is a harbour protected by an island, and from it a great quantity of teak is shipped

Moulton John Fletcher, Baron British lawyer Ho was born on Nov 18, 1844, and in 1874 was called to the Bar, 18, 1844, and in 1874 was caused to the Bar, where he established a practice in patent law, on which he became a supreme authority. In 1906 he was appointed a Lord Justice of Appeal, and in 1912 a Lord of Appeal with the title of Baron Moulton of Bank. He was first chairman of the Medical Research Committee under the National Insurance Act (1912), and was Director Gangal of Explosive Supplying and was Director General of Explosive Supplies during the war He died March 9, 1921

Mountain Term used for an elevation of the earth's crust There are two types tectonic mountains, which are due to accumulation or deformation of the carth's crust, and subsequent or relict mountains, representing the remains of ancient clovated areas. There is no standard height for a mountain. In Great Britain the name is applied to peaks over 2000 ft. high

Mountain Name used for a political party that arose during the Trench Revolution They were a group of Jacobins, which included Danton and Robespierre The name was given because its members sat on benches somewhat higher than the others in the chamber. About 100

The principal occupation is coal mining Pop (1931) 38,381

Mountaineering Climbing of mountains as a pastime or adventure. It developed in the 19th century, when Frenchmen, Englishmen and others began to climb some of the peaks of the Alps One by one the summits were reached, clubs were formed, a technique of climbing was developed, a literature came into being—and mountaincering had become a widely practised sport The Alpine Club was founded in 1857 Mountaineers went to Africa and America, where mountains of over 20,000 ft were climbed, these including Aconcagua, Mt St Ellas and Kilimanjaro, until almost the only unclimbed mountains were the highest peaks of the Himalavas The three greatest are Fyerest, Kanchenjunga and Godwin-Austin and attempts to reach the and Godwin-Austin, and attempts to reach the summits of these have so far failed. A further expedition to conquer Everest set out in the spring of 1936 under Mr. Hugh Ruttledge

Mountbatten Name taken in 1917 by the members of the roval family until then known as Battenberg One became the Marquess of Milford Haven See BATTENBERG

Mount Edgecumbe Headland in near Plymouth From it the old Cornish family of Edgecumbe takes the title of earl, which dates from 1769 The family seat is Mount Edgecumbe, and the earl's eldest son is called Viscount Valletort

Mount Grace Ruined abbey in York-Northallerton it was once a house of the Carthenian monks. It was destroyed at the Reformation, but considerable ruins remain, including monks' cells, each with its oratory and garden, and parts of the church and the

Mountmellick Market Leix, town Irish Free State, 9 m from Maryborough and 50 from Dublin, on the GS Rhys It is an agricultural centre Pop 2280

Mounts Bay arm of the sea off the 21 m. arross, and Penzance is the chief place on its shores It also includes St Michael's Mount.

Mountsorrel Town of Leicestershire on the Soar, 7 m. from Leicester The chief industry is the mining of granite from its famous quarries

Mount Stephen George Stephen, Railway director Born in Scotland on June 5, 1829, he went to Canada in 1850 and became in turn Director, Vice-President and President of the Bank of Montreal He was also director of several railways, and President of the CP Rly, which opened up trans continental traffic in Canada. He died on Nov. 20 1991 He died on Nov 29, 1921

Jacobins, which included Danton and Robespierre. The name was given because its members sat on benches somewhat higher than the others in the chamber. About 100 in number, they were responsible for the Reign of Terror.

Mountain Ash Urban district and Mountain Ash Urban district and from Cardiff on the River Cynon, 18 m from Cardiff on the GW Rlv. The district includes, in addition to Mountain Ash itself, Aberpennar, Cympennar and Abercynon.

national memorial in 1859 Nearby is his tomb gained by his strict training in the German There are several other places of this name in school He died on Dec 5, 1791 the United States, the largest being a city in Mile 2020 Name given to a viscous New York state, on the Bronx River, 18 m from New York Pop 61,500

Mouse Name of various small rodents British species include the cosmo politan house mouse (Mus musculus), the tiny nest building harvest mouse (Micromys minutus), and the long tailed field mouse (q v)

Mousterian Name given to an epoch of the Palacolithic age
It is derived from the Cave of Le Moustier in Dordogne, where flint implements as well as bones of the mammoth, woolly haired rhino ceros, cave bear and musk-ox were found The climatic conditions appear to have been cold and damp, but the tools found show an advance upon those of the previous period.

Mouth Median opening in the head of an animal It leads to the mouth cavity into which open the alimentary canal, the respiratory organs and sallvary glands The mouth or buccal cavity in the higher types is provided also with organs for prehension and retention of the prey, or the tearing and grinding of food namely the teeth Sallvary glands are present and in mammals the tongue, a highly muscular up growth from the floor of the mouth, reaches its highest development

Moynihan Lord English George Moynihan was born in Malta, Oct 2, 1865 Androw and, having trained as a doctor, began to practise in Leeds He was appointed professor at the university there and made a great reputation He served with the R A.M C throughout the Great War, and in 1922 was made a baronet, becoming a baron in 1929 He has written several books on surgical subjects

Mozambique District of Portuguese island, 3 m from the coast, was named San Sebastian de Mozambique and became known by the latter part of the name On this island the Portuguese founded a settlement in 1508, and this became the seaport of Mozam It has a harbour bique

The name was extended from the island to The name was extended from the island to the mainland, where a large district of Portu-guese F Africa is called Mozambique This covers 297 657 sq m between Tanganyika and S Africa, and contains the port of Lour-ence Marques It comprises 245 776 sq m of territory administered by the State and 51,881 sq m. governed by the Mozambique Co, where is the port of Belra Mozambique has railway connections with the interior of Africa, and produces sugar, maize and cotton Pop 4,309,758

Mozart Wolfgang Amadeus Chrysostom Austrian musician and com poser Born on Jan 27, 1756 he made his first professional Furopean tour when six years old After a period of financial difficulty he produced, with tremendous success, the Marriage of Figaro (1786) and in 1787 Don Giovann which was equally successful He was ap pointed Kammer Musicus to the Emperor Joeshi II, for whom he wrote Cost fan Tutti

His financial difficulties continued while making money for others his generosity and carelessness kept him poor The Magic Flute was produced in 1791 He combines the richness and melody of the Italian school with a knowledge of harmony and instrumentation

Mucilage and often sticky aqueous solution of a gum, occurring naturally in many seeds, tubers, stems and other plant tissues Commercial mucilage, adhesive in character, is a solution of gum arabic, or of British gum, a form of devtrin A mucilage of less adhesive power is made from gum tragacanth, and used in calico printing, phar macy and the manufacture of oil emulsions. Another type of mucilago is the pectin, prepared from fruits and used in jelly and jam

Mucous Membrane Term applied in zo ology to the membrane lining the stomach and other parts of the alimentary canal, bladder and various ducts of the body It consists of a layer of loose connective tissue or sub mucosa over which is an epithelium containing rlandular cells secreting mucus or digestive

Mudfish Name given to certain fishes having the peculiar habit of burying themselves in the mud during a dry season Among the ganoid fishes, the bow fin (Ama calca) of N America can survive drought for a time by inhaling air into its swim-bladder Several other mudfishes belong to the dipnoi or lung fishes, characterised by a lung like organ for air breathing, these are the protopterus of S Africa and lepido siren of Australian rivers

Mud1e Charles Edward English pub-lisher and founder of Mudies Lending Library Born on Oct 18 1818, the Lending Library son of a second hand bookseller, he started a stationery and book-selling business in Bloomsbury, London and in 1842 began to lend books This innovation proved so successful that in 1852 he transferred his "select library" to larger premises in New Oxford St., and branches were also established elsewhere in 1860 In 1864 Mudle's became a limited company died on Oct 28, 1890 Hо

Mudros Town and port of Lemnos It is on the S coast of the island and was used as a base by the British during the campaign in Gallipoli in 1915 Here on Oct 30 1918, was signed the armistice between the allies and the Turks

Muezzin official in a Mohammedan Official in a Mohammedan the imam to proclaim from the platform of the minaret, or from the side of the mosque, the regular hours of prayer These are at dawn, noon, 4 PM, sunset and nightfall

Mugwort Perennial composite herb indigenous to Europe, Asia and N Africa (Artemsia rulgaris) Woolly aromatic, with erect, angled grooved reddish stems 2 4 ft. high, it has large alternate leaves, silky beneath and crowded sprays of small reddish vellers flower beads. of small reddish yellow flower heads

Muirkirk Town of Ayrshire, 26 m from Ayr on the River Ayr The chief industries are the mining of coal and iron ore

peror Wukden City of Manchukua, the capital and portant trading centre. The city is surrounded City of Manchukua, the capital The city is surrounded by outer and inner walls and has a university

Pop 250,000 Near Mukdon in Feb March, 1905 the Japanese gained a decisive victory over the Russians

Mulatto Word, diminutive of mule, denoting in Spanish-America a half breed, the offspring of a white and a negro parent. The skin-colour and hair are usually intermediate The offspring of a mulatto and a white is a quadroon (one-fourth black), that of a quadroon and a white an octoroon (one-eighth black)

Mulberry Genus of deciduous trees or shrubs, allied to the nettle order, natives of the N hemisphere (Morus) They have toothed leaves, often three-lobed and bear collective fruits each formed of many coalesced flowers The black mulberry, of Persian origin, with purplishblack fruit, was cultivated in antiquity and reached Tudor England The Chinese white mulberry, with white fruit, whose leaves silkworms prefer, grows extensively in Mediterranean lands The N American red mulberry, 40-70 ft high, with red fruit, yields useful timber

Mulch Gardening operation It consists of placing material upon the soil for the purpose of protecting tender plants from frost, or preventing evaporation in hot weather, or of supplying nourishment to plants

Mule Name given to the hybrid offspring of the union of a male ass and a mare, resulting in an animal of considerable strength and hardiness Mules are more suitable than horses for certain kinds of work, such as draught and pack work in arid or mountainous country They are much used for army work Largo mules are usually the progeny of Spanish or French asses

Mule Machine used in cotton spinning It was invented by Samuel Crompton in 1779, its name being given because it was a cross between the spinning jenny of Hargreaves and the throstle of Arkwright The mule was improved later by Richard Roberts, and in its modern form is self acting, functioning as an intermittent splinner and winder Some mules are of considerable size carrying up to 1400 spindles borne on steel carriages. Mule spun yarn is even and regular, and of fine quality

Mulheim City and river port of Germany, on the Ruhr, 16 m from Düsseldorf, and a centre of the coal and iron industries There is a good harbour and many manufacturing establishments Pop 127,400

Another Mulheim is a town on the Rhine opposite Cologne It is a large manufacturing centre with a good harbour in the river Pop 51,000

Mulhouse Town of Alsace, France, Strasbourg Also served by the Rhine-Rhône Canal, it is a manufacturing town, the industries including the production of textiles Mulhouse was a free city from 1198 to 1797, when it was taken by France, and in 1871 was handed over to Germany The French entered it in Aug. 1914, but were soon driven out. Pop (1931) 99,534

Mull Island of Argyllshire, 7 m from Oban It covers 351 sq m and is the second largest island of the Inner Hebrides Tobermory is the chief town The interior is mountainous, some peaks being over 3000 ft. high The coast is very much indented The pop 4000

The Sound of Mull separates the island from the mainland It is 20 m long and from 2 to 3 m wide

Mullah Mohammedan word for a teacher or official In Egypt and other for one who administers the law In India the word is used for a schoolmaster In Somaliand leaders called "mad mullahs" have on several occasions raised rebellions

Muller George Preacher and philanthropist Born near Halberstadt on Sept 27, 1805, he came to London in 1829, and became the rinister of a noncomformist chapel at Teignmouth, where he abolished pew rents, gave up his own salary, and depended on voluntary gifts In 1836 he founded an Orphan House at Ashlev Down near Bristol, and in 20 years, through 'prayer to God' and without appeals, had received £84,441 for the orphans He wrote The Lord's Dealings with George Maller He died on March 10, 1898

Muller Hermann German politician He socialist, he was born May 18 1876 A strong socialist, he was made editor of a socialist newspaper in Silesia, and in 1906 was chosen one of the leaders of the socialist party in Germany In July, 1914, he visited Paris and Brussels in the interests of peace, but his efforts were futile, and he gave his support, somewhat reluctantly, to the war policy of Germany He undertook the editorship of Vorwarts, and in 1917 was made an Under Secretary of State

In June, 1919, when Germany was enraged by the terms of the peace treaty, he joined the Cabinet founded by Gustav Bauer as Minister for Foreign Affairs and as such signed the treaty at Versailles This made him very unpopular, but he held on his way and in 1920 was elected for the first time to the Reichstag In Jan of that year he had succeeded Bauer as Chancellor, and during the next few months he carried out hurriedly some important social reforms In June, 1920, however, he was forced to resign, and for the next eight years he led the socialist party in the Reichstag In May, 1928, he again became Chancellor, with Stressmann as his Foreign Secretary, and he remained in power until March 1930 He died March 20, 1931

Muller Max See MAX MULLER.

Mullet Name of two unrelated kinds of food fishes Two forms of each occur on British coasts Of red mullets (Mullus), the striped or surmullet, 6-16 in long, is commoner than the smaller plain red Of grev mullets, (Mugil), the thin-lipped, 12-20 in long species, frequenting brackish estuaries, is commoner than the smaller thick-lipped

Mulligatawny (Tamil, milagu-tannr, pepperwater)
East Indian soup Made with boiled meat or chicken and rice, it is highly seasoned, and contains sufficient curry powder to render it very hot to the palate

Mullingar Market and county town of Co Westmeath, Ireland, on the River Brosna, 50 m from Dublin The town has an agricultural trade, and horse and cattle fairs are held Pop 4500

Mullion Architectural term for the vertical division in a window, usually of stone or wood in England but sometimes of brick. It arose from the gradual reduction of the pler or piers between two

coupled lancet windows The mullion is ised for self government under a municipal not seen in pure Renaissance architecture, but is chiefly late Gollile body In Great Britain, a corporation consists

Mulready william Irish painter He was born at Ennis on April 30, 1786, and later removed to London He entered the Roval Academy in 1800, and found his most successful sphere in such subjects as "A Roadside Inn," The Barber's Shop" and "Punch" His "Idle Boys" procured him his ARA in 1816, and he was made R.A in 1816 He is perhaps best known for his illustrations to the Vicar of Wakefield He died on July 7, 1863

He died on July 7, 1803

Mumbles Watering place of Glamor ganshire, on Swansen Ray,
202 m from London Nearby are Mumbles
Head and two small islands

Mummy Dead body prepared for burial according to processes devised in ancient Egypt. To postpone natural decay, it was at first soaked in crude natron subsequently methods employing bitumen, spices, honey and drugs were introduced From the 21st dynasty onwards, brain and entralis were removed, the body-cavities repacked, the whole enswathed in smeared linen band ages inscribed with ritual texts and enclosed with amulets and falence statuettes in a mummy case. The practice extended to cats crocodiles and other sacred animals It ceased about A D 700

It consed about A D 700

Mumps Infectious fever with involve ment of the parotid salivary

glands

The symptoms are pain and swelling of the glands under the car, with foverishness and loss of appetite. The patient should be kept in bed on a liquid diet until the temperature is completely normal, and should be isolated for about three weeks. A doctor should always be called. Incubation period is 14 21 days

Wunchhausen soldier and storyteller Karl Friedrich Hieronymus Münchhausen was born in Hanover in May, 1720, and fought for the Russians against the Turks He won a great reputation by the wonderful stories he told estensibly about his warlike and other adventures, but largely the products of his imagination These were collected, and in 1785 they were published in English as Baron Münchkausen's Narrative of his Marvellous Travels and Campaigns in Russia He died in 1797

Mundesley Village and holiday resort Cromer and 1351 from London Pop 770

Mungo Scottish saint, believed to have lived in the 6th century AD. The patron saint of Glasgow, his name means in Gaelic "dear one". He is known more usually as Kentigorn (q r)

would be sent to the Germans as München, it is situated on the Iser, and is the fourth largest city in the Germans as München, it is situated on the Iser, and is the fourth largest city in the German republic It is an important art centre, the Peria Rothen and the Glyptothek containing fine collections of paintings and sculpture

of paintings and sculpture

The chief industry is browing Munich beer being world famous while there are also manu factures of machinery and scientific instruments and wood-carving is much practised as a local craft. It has a broadcasting station (633 M,

1.5 LW ) Pop 680,704

Municipality Term used for a town or city, which is organ

ised for self government under a municipal corporation. It is also used for the governing body. In Great Britain, a corporation consists of a mayor or provost, at the head, aldermen and councillors. By its seal, it acts as a person, and can sue and be sued, and it has powers to hold lauds and to make by laws and enforce by penalties, as long as they are reasonable, and do not violate the charter.

Municipal Trading In some towns, as in Blackpool, where municipal enterprise provides amusoment and Birmingham where there is a Municipal Bank, the Socialist idea of a municipal authority acting as a private onterprise is carried out, but mostly, the towns confine themselves to housing and town planning, water works, highways, electric light supply, sewers, tramways, elementary education, gas works, small holdings and parks, including tennis-courts and golf-courses

Housing was undertaken, largely after Wheatley's Act of 1924, by the local authorities when the building was executed under the Joint Town Planning committees.

The water supply is in the hands of about two thirds of the public authorities and the electric supply, complicated by the appointment of the National Electricity Commission, and the Central Electricity Board, has only been undertaken by about half the local authorities

Munitions als used in warfare It includes both guns and ammunition, while the development of trench warfare and the use of poisonous gases has widened the range of materials to include grenades, bombs, mortars, steel helmets, various chemicals, etc. In the Great War the production of munitions being on a large scale, a government department, the Ministry of Munitions, was created in 1915 to control production and co-ordinate the various industries concerned. For this purpose the metal, ongineering and chemical industries were mobilised, and national factories set up with the result that production was increased with an economy of materials. The ministry came to an end on March 31, 1921

Munster Province of Ireland In the SW of the country, it is wholly within the Irish Free State It con tains six counties, Clare Kerry, Cork, Tip perary, Limerick and Waterford, and covers 9300 sq m At one time it was a separate kingdom, and was divided into Thomond, in the N and Desmond in the S

The title of Earl of Munster is borne by the family of Fitzelarence The 1st earl (created 1831) was a son of William IV and Dorothea Jordan

Munster City of Westphalia on the industries include the manufacture of textile goods and beer, printing works and sugar refineries. An event in the history of the city was the kingdom set up by the Ana baptists under John of Leiden in 1535 Pop 90 300

Another Munster is a town of Alsace, in the Vosges district, 11 m from Colmar Pop 6000

Muntz Metal Widely used nongroup of brasses Called also yollow metal it contains from 60 to 62 per cent. of copper and 40 to 38 per cent of zinc It is an alloy of high tensile strength, and resists corrosion well Formerly used for sheathing ships, it is

employed now for propellers, and also for bowls, trays, etc.

Murat Nov 25, 1767, he distinguished himself as cavalry general under Napoleon by his fearlessness at the battle of the Pyramids,

Muray George Gilbert Aimé English Scholar Born in Sydnoy, June Murat Josehim King of Naples Born on Nov 25, 1767, he distinguished himself as cavalry general under Napoleon by his fearlessness at the battle of the Pyramids, and later at Marengo, Friedland and Misscow He was brother in-law to Napoleon, who made him King of Naples in 1808 Murat abandoned Napoleon in 1814 to ally himself with Arctic Napoleon in 1814, to ally himself with Austria and England, but was himself abandoned and England, but was nimsen abundance later by his allies, and forced to fice his kingdom Trying to recover it, he was captured and shot on Oct 13, 1815

Murcia City of Spain on the River Segura, in the S of the country,

25 m from Cartagena It is a large manu facturing and trading centre. Near the city are the celebrated gerdens of Murcia, where vines, mulberries, olives etc. grow in great profusion Pop (1931) 160,478 Murcia was the name of a Moorish kingdom

which existed in the 13th century

Murillo Bartolome Esteban Spanish 19111110 painter Born at Seville in 1617, he studied under local painters and, struggling to carn a living by peddling pictures at fairs, he saved sufficient money to enable him to visit Madrid where he became a pupil for a time of Velasquez He returned later to Soville and obtained commissions from the clergy, and developed his own style of painting He interpreted religious subjects in homely realism understood by the people but his work in general suffered from lack of restraint and selective power. restraint and selective power A number of his pictures are in the Louvre, at Madrid, and the London Galleries Ho died April 3, 1682

Murman Name given to the coast of the Kola Peninsula In the extreme N of Russia, this lies between the Kola Bay and the White Sea, and is 200 m long. On Kola Bay is the port of Murmansk, which is the terminus of a railway from Leningrad

Early in 1918 a force composed of British, French and American troops occupied Mur-mansk and the neighbourhood this being part of an operation that included the expedition to Archangel During 1919 the troops gained possession of about 400 m of the railway and, winning several successes over the Bolshovists advanced as far as Lake Onega The enterprise, however, offered no prospect of per-manent success and towards the end of the year the force was withdrawn

Murray River of Australia, rising in the Australian Alps and flowing to the sea through Lake Alexandrina At the mouth are sand-dunes which male the navigation of the river possible only for small vessels. The water of the Murray is used for irrigation purposes, being held up at the dune reservoir where the Milita falls into the Murray, so that it is available in the dry Murray, so that it is available in the dry adurary, so that it is available in the dry senson Improvements have also been made in its lower course to facilitate navigation. For the greater part of its course it forms the boundary between the states of New South Wales and Victoria. It is 1500 m long, and its chief tributaries are the Darling and Marrambidges. Murrumbidgee

Murray Sir David Scottish painter Murray Sir David Scottish painter was elected A R.A in 1891, and R.A in 1905 In 1917 he was made President of the Royal Institution of Painters in Water Colours, and was knighted in the following year

2 1866, he had a remarkable career as a classical scholar at Oxford. He was made a fellow of New College, Oxford and in 1889 Professor of Greek at Glasgow In 1908 he returned to Oxford as Professor of Greek To scholars Murray is known as the author of A Hislory of Ancient Greek Literature, The Origin of Tragedy, The Rise of the Greek Epic and other books and to a wider public for his trans lations of the plays of Furlpides He is one of the leading supporters of the league of Nations

Murray Sir James Augustus nem, Scottish lexicographer, born at a contland, on Feb 7, 1837 Ho Denholm, Scotland, on Feb 7, 1837 Ho founded his reputation as a philologist with Dialects of the Southern Counties of Scotland in 1873 His great work was the editing of the Philological Society's New English Dictionary which was begun at Mill Hill in 1879 and continued at Oxford with several successive joint-editors He died on July 26, 1915

Murren Pleasure resort of Smittering, in the Bernese Oberland, 3 m from Lauterbrunnen It is 5000 ft high, and is a good centre for the ascent of the Jungfrau and other peaks Pleasure resort of Switzerland.

Murrumbidgee River of New South Wales, rising in the Australian Alps and flowing first N and then W to the Murray Its length is 1350 m., for about 500 of which it is navigable Its chief tributery is the Leables. tributary is the Lachlan

Muscat Scaport of Arabia, the chief port of Oman It is on the Galf of Oman, and from it some of the products of the country are exported. It was a Portuguese possession from 1508 to 1650 Pop 20,000 Pop

Muscatel General name for wines de-rived from muscat and simi-lar grapes Sometimes red, but mostly white with musky flavour and more or less sweet and elegant taste, they are produced in Languedoc and other French wine growing districts, on the slopes of Vesuvius, in Capri, Sicily, Crete, Switzerland, Australia, S. Africa and elsewhere

Tissue in an animal's body Muscle movement, and consisting of bundles of fibres, each tibre being a thin thread of muscle substance about the inch in diameter and surrounded by a delicate sheath or sarcolemma surrounded by a delicate sheath or sarcolemma. The muscle substance is probably of more or less fluid consistence, and has the special property of contractility on the application of a stimulus. Muscles controlled by the will are termed voluntary, others not under the will involuntary.

Muscovy Former name for Russia Moscow constituted the realm, until the time of Peter the Great. It was ruled by princes who became known later as tsars See Russia

The Muscovy Duck is found in America It nests in the trees and lives in marshy dis tracts. The bird has been introduced into Britain

Muse Goddess of song Greek legend represented the Muses as nine in number, presiding over the different kinds of

poetry, arts and sciences They were the daughters of Zous and Mnemosyne and the daughters of Apollo The nine were Clie, the muse of history, represented with an open roll of paper or a chest of books, Euterpo, the muse of lyric poetry, represented with a lyre, Thalia the muse of comedy and idyllic staff or a wreath of ivy Melpomene, the muse of tragedy, represented with a crook, the club of Horoules or a sword, with vine leaves on her head and wearing the cothurnus, reves on her head and wearing the cothurnus, Terpsichore, the muse of dawn and song, represented with the lyre, Erate, the muse of erotic poetry, also with a lyre, Polymnia the muse of the hymn Uránia, the muse of astronomy, represented with a staff pointing to a globe, and Calliope, the muse of epic poetry, represented with a tablet and stylus Mount Helicon, with its sacred fountains, and Mount Parnassing were sacred to the muses Mount Parnassus were sacred to the muses

Museum Building or part of a building appropriated as a repository for preserving and displaying objects of The first great national museum was the British Museum, London, 1753, the Louvre Museum, Parls, was founded 1793. There now Museum, Paris, was founded 1.00 conserved exist many important general collections, eg, the Metropolitan Museum of New York, special collections, eg, the Wellcome Historical Museum, London and open air museums. eg, Skansen, Stockholm

Mushroom Name indefinitely applied to several of the larger fungi especially if edible, although indistinguishable by any rough and ready means from non-edible forms. The common edible from non-edible forms The common edible mushroom or agaric (Psalloia campesiris), successfully oultivated especially in France, for more than 200 years, comprises a cylindrical stalk supporting an umbrella shaped cap, 3 5 in across with coloured gills beneath which ultimately blacken Other recognisable edible fungi include the fairy ring champignon and the morel A toadstool (Amanita phalloides) causes nine tenths of all deaths from so-called mushroom poisoning See Ketchup

Music Melody of harmony, a tone or tones having any or all of the features of melody, rhythm or consonance The first idea of music was that it was any art over which the muses presided, but after a time it was narrowed down by the exclusion of poetry, dancing and other arts, although music was still closely associated with them

Among the Greeks music was generally subordinate to verse and was rather limited in the direction of expression, because the instruments used, chiefly lyre and flute, were simple Nevertheless, it set up the diatonic scale or modes and the rudiments of key re lationships There had been music before the time of the Greeks, indeed, from the very beginning of human life but it was of the same simple kind Among the Jews, however as detailed in the Bible, the use of musical instruments seems to have been somewhat Music played a great part more advanced in their religious and other ceremonies, as it did in the festivals of Greece Music owes much to the church and great

advances were made in the art during the Middle Ages The ecclesiastical modes were taken from the Greeks, new ones to indicate the pitch of tones were invented and staff notation was developed The tetrachordal, notation was developed. The tetrachordal, or fourfold, unit was superseded by the hexa

They were the chordal or six fold, descant, or simultaneous includy, was replaced by mensurable music and thence came counterpoint. Very elabo late settings for the mass and psalms were composed, especially by the great Italian masters culminating in Palestrina Con currently in the 10th-16th centuries secular music was making great advances It was the age of the minstrels, the troubadours and the minnesingers

Modern music owes a vast debt to Bach, who was largel; instrumental in developing polyphony The establishment of the major and minor scales, with the octave as a unit, and of equal temperament, made modulation in any key possible, and so harmony was

developed

Since the time of Bach there have been great advances in both vocal and instrumental music Vocal music has broadened out into the opera, oratorios and the lyric Instru mental music has been aided by improvement in the instruments which gave scope for the superb productions of Haydn and especially

of Beethoven Other great masters are Mozart and Wagner in opera and Handel in oratorio With the 20th century, the outstanding development of music has been the widespread use of the gramophone and other mechanical devices for reproducing it and its transmission

by wireless

MUSIC AS A CAREER Though an over crowded profession, music, which now comprises so many branches, still offers considerable scope for performers and teachers of real talent and Success in either capacity however, is by no means easy to achieve, and

requires many years of training
Orchestral players for broadcasting, theatres,
cinemas, dancing, etc., should be steadily in
demand, and have fixed rates of pay Organists. with city or cinema appointments may obtain as much as 2500 per annum, and whole time cathedral posts are worth about £300-£500 with a house as well as allowing opportunity

for pupils to be taken

The Royal Academy of Music and the Royal
College of Music in London are the most
famous centres of study for all branches of the

famous centres of study for all branches of the profession, the fees being fourteen guineas a term at the former and twelve at the latter Other well known training schools are the Royal Manchester College of Music, the Gulidhall School, Trinity College, and London Academy of Music

For Music Teachers, courses are provided at the Royal Academy of Music, York Gate, Marylebone Road N W 1, the Royal College of Music, Exhibition Road, S Kensington Trinity College of Music, Mandoville Place, W 1, and the Gulidhall School of Music, John Carpenter Street, E C 4 Courses are also provided at certain reputable institutions in the provinces vinces

Musk Perennial herb of the figwort order, native of Oregon (Mimulus mos chalus) The nearly regular yellow flowers, diffuse hairy stems, and thin oblong leaves, exhaling a musky odour, make it a favourite plant for window-boxes and hanging baskets. The name also denotes a native British musky smelling stork's bill, Erodium moschatum, with

smelling stork's bill, Erodium moschatum, with rose purple flowers. See Monkey Flower Musk Strong-smelling substance secreted in a sac like gland by the male musk deer The animal is killed and the gland removed, the dried secretion being sent to market "in pod" or, after extraction, "in grain" The perfume is powerful and enduring

Asia (Moschus moschiferus) Clumsily-built, 20 in high at the shoulder, the males have projecting sabre like upper-jaw tusks 3 in long and bear an abdominal gland containing the perfume before-mentioned. The thick, coarse, brittle hair is grevish-white, the hind legs long, and the toes splayed Neither sex bears

Musket Term employed for a firearm of the smoothbore type. It was used chiefly for arming infantry. Muskets were either matchlocks fired by applying a match to the powder, fiintlocks, or breech loaders

Musk Ox Arctic American bovine ruminant (Oribos moschatus) The male has wide flattened horns, and a long thick brownish coat, its flesh has a musky odour It is now confined to NE Canada and Greenland, from 64° N lat to Grinnell Land

Muslin Fine, plain-weave cotton fabric used for dresses, hangings, curtains, etc. Named from Mosul, Indian makes were introduced into Stuart England, and still come from Madras and other famous centres The invention of mule spinning developed a great industry in Lancashire, Scotland, Switzer-land and N America

Musquash the vole subfamily (Fiber subtlines) It is also called musk rat, a musky smelling gland being present in both sexes smelling gland being present in both sexes Stoutly built, 12 in long, with compressed 10 in tail, and partly-webbed hind feet, it is of amphibious habit—Its soft, velvety, darkbrown fur is extensively used by furriers

Mussel Popular name for bivalve mol-luses constituting large marine and freshwater families of world wide dis tribution. The common sea-mussel of British coasts, Mythus edvits, as well as being much prized for human food, is also a valuable bait for deep sea fishing British freshwater mussels include the river-mussel and pearl-mussel, Unio, and the swan mussel, Anodonia

Musselburgh Burgh and seaport of Midlothian, at the mouth of the Esk, 6 miles from Edinburgh There is a harbour at Fisherrow for the fishing fleet, while an important industry is paper making Here is Loretto School (qv) Pop (1931) 16,996

Musset Alfred de French romantio poet, author and playwright Born on Dec 11 1810, he was admitted to the circle of French Romantics after leaving school, and published in 1830 with success his first poems, Conies d'Espagne et d'Italie Extremely sensitive his hie was a series of emotional crices, the greatest of which came after his break with George Sand As the result of his suffering at her unfaithfulness, he wrote his greatest lyric poems, Les Nuis, which mark the highest point in French lyric verse He wrote also several successful light comedies, ome of which are still produced He died on May 2 1857 Musset Alfred de

Musk Deer Small ruminant inhabiting labour, studied French at Lausanne University, read widely, made speeches, organised Asia (Moschus moschiferus) Clumsily-built, unions and strikes, and was expelled from one canton after another

In 1905 he carried out his military service with the Bersaglieri He founded the weekly paper, La Lotta di Classe, in 1910 at Forli, and was imprisoned for his articles. He became secretary of the Socialist Society at Trent, and was banished for his "irredentism" in Il was banished for his "irredentism" in R
Popolo He then became editor of the Millan
social paper, Aranti When war broke out he
wished Italy to remain neutral, but was converted to the Allies' cause, and for this was
expelled at a Socialist Congress at Milan in
Nov, 1915 He founded the paper R Popolo
d'Haha, and, when Italy entered the War in
1915, volunteered as a private soldier in the
Bersagheri He fought in the trenches until
Feb 22 1917, when he was seriously wounded
by the explosion of a mortar
The following Soptember he again became

The following September he again became editor of Il Popolo, now preaching against pacifism The end of the war found Italy in such a state of disorder that Mussolini judged the time for his counter-revolution rapidly approaching, and on March 23, 1919, founded the Fascismo Institution (See Fascism)

When the Fascists marched on Rome, Victor Emmanuel dismissed his Prime Minister, Facta,

and invited Mussolini to enter Rome on Oct. 30, 1922 Since then Mussolini has been the dictator of Italy, holding the premiership, and at one time the ministries of Foreign Affairs, Interior Colonies, War, Marine Air and Labour Through the Fascist system Mussolini has but down all opposition and led a prited and

put down all opposition, and led a united and re-vitalised Italy into the forefront of progress Dissentients have been summarily dealt with and centralised methods of government, backed by extensive social legislation, have increased the material well-being of the country, while Fascist education has increased the national solidarity. He has encouraged excavation and research into the antiquities of Rome to inspire the nation with a sense of its glorio s heritage, and an extensive scheme for rebuilding Rome was launched in 1932 as part

No less remarkable was his achievement in 1929 of the treaty which finally settled the Roman Question, the Pope thereby becoming sovereign of the newly created state of the Vatican City Subsequent differences with the Vatican were satisfactorily composed

Mussolini's foreign policy has been directed to maintaining the influence of Italy in the Mediterranean and strengthening her position as a European power In 1924 he negotiated a settlement with Yugoslavia in which the Italian claim to Flume was recognised In 1926 he placed Italian relations with Greece on a grandly feeting and vicescents. friendly footing, and vigorously supported the independence of Albania

break with George Sand As the result of his suffering at her unfaithfulness, he wrote his greatest lyric poems, Les Nuis, which mark the highest point in French lyric verse. He wrote also several successful light comedies, some of which are still produced. He died on May 2 1857.

MUSSOIni Benito Itchan statesman Dovin, in the province of Forli July 20, 1883, the son of a blacksmith, be attended an elementary school and later a boarding-school at Feenza, and gained a teacher's certificate at Forlimpopoli, after which he taught for a year at Gualteri, Recgio Emilia. He went to Switzerland in 1902, and while doing manual

Furopean horses of 16th-century introduction, mustangs live in troops, are very hardy, and

are often broken in for riding

Mustard Nome of several species of annual plants of the genus Brassica They belong to the order Cruciferac, end are natives of Europe, Asia, and North Africa The dark brown seeds of the black mustard, B Nigra, are ground with those of the vihite mustard, B alba, with or without the addition of starches, to form the well known condiment. condiment

Mustard Oil is an acrid pungent oil distilled from black mustard and used medicinally for

external application

Mustard gas is the name given to a noxious gns—dichloridethyl sulphide—used in the Great War It causes when inhaled, severe inflammation of the lunge

Muswell Hill District of London, north of the city, and reached by the LNE Rly A residential area it is outside the county, being in the Borough of Hornsey

Term applied in the study Mutation Term applied in the study of heredity to one of the types of variation which of curs in the offspring of both animals and plants. This type is known as discontinuous variation or mutation and is characterised by the appearance of new forms differing considerably from their parents and having no intermediate forms According to some modern biologists, mutation is the basis of evolution affording a means by which the unfit are eliminated by natural selection

Lake of Africa, 90 miles to the Mweru Lake of Africa, 50 lines to the west of Lake Tanganyika, discovered by David Livingstone in 1867. It is 76 miles long, and the River Luapula falls into it, while around it is a marsh district which is a game preserve for the elephant. The lake belongs to Belgium and Rhodesia

Mycenae Ancient Greek city in the Peloponnesus Here on a natural rock in NE Argolia, Bronze age immigrants developed a remarkable civilisation marked by Cretan fashions in art After the fall of Cnossus this civilisation dominated the tan of Chossas this synthation dominated the E Mediterranean culminating in the dynasty to which Agamemnon belonged The city was destroyed 468 B C Explored by French archaeologists, 1832, Schliemann 1876, and Wace, 1920 23, Innumerable gold and silver ornaments, utensils, weapons and pottery objects have been revealed

Myelitis Term applied to the inflam mation of the spinal cord but used loosely for various spinal affections. True myolitis may arise from exposure to cold and wet, wounds or injuries to the cord or from infoctious diseases Paralysis of the limbs is followed by muscular atrophy and high fover,

ending in death

Mynyddislwyn Urban district of Monmouthshire A colliery centre, it is 8 m from Newport, and has chemical and tinplate manufactures Pop (1931) 16,201

Myopia Condition of the eye resulting in shortsightedness Weakness in the accommodating mechanism of the eve causes the visual focal point to be in front of the retina The range of distinct vision therefore is nearer to the eye and distant objects appear indistinct a defect remedied by the use of concave lenses

Myrmidon In ancient Greece a Thes salian tribe who fought in the Frojan war under their leader, Achilles Their fidelity and devotion to Achilles has made their name a symbolic term for one who gives a blind, unquestioning obedience to a superior

Myrrh Gum resin, obtained as an extination from the stem of a Balsamodendron myrrha, growing in da and Abyssinia Myrrh is imported as Arabia and Abyssinia irregular tears of reddish brown masses, having an aromatic odour and bitter taste. It is used modicinally as a tonic and also in mouth washes, gargles and tooth powders

Myrtle Evergreen shrub of Aslatic origin, ranean region, and hardy in SW England (Myrtus communs) Its thick, shining opposite leaves and fragrant white flowers largely used in perfumery, yield an aromatic medicinal oil the berries are used in cookery and turners esteem the hard, mottled wood

Wysore Native state of S India It has an area of 29 483 sq m and is situated on the Deccan Plateau surrounded by British territory It is ruled by a Hindu maharijah, under British protection Coffee planting is the principal industry and gold is mined Pop (1931) 6,423 159 Mysore City is the capital with a population of 83,932, while Bangalore is another large town.

Mystery Secret rite Early social and religious institutions affecting the emotional life of settled agricultural peoples, display widespread observances, perhaps derived from ceremonial dances in neolithic culture, still traceable in primitive survivals They comprised the initiation of selected persons by processes of purification and sacrificial offering into a secret formula, and their presence at the revelation or commemoration of a dramatic event. The most renowned mysteries in anoient Greece were held cach September at Eleusis, based upon the veneration of the corn goddess Demeter with whom the youthful Dionysus was afterwards associated. In the Gracco Roman world Orphic, Mithraio, and other mentales and other mentales and other mentales are supplied to the control of the contr and other mysteries maintained a long rivalry with early Christianity Medieval Christendom developed a type of religious drama or mystery collections of those performed at York, Coventry, Chester and Towneley survive See Miracur Play

Mysticism Mode of thought or feeling which seeks, in Dean Inge s words, to realise the immanence of the temporal in the eternal and the eternal in the temporal "Traces of it occur in many diverse lemporal "Traces of it occur in many diverse religions, notably in theosophical Hindulsm, Persian Sufism, and Platonism. It marks some NT writings particularly the Johannine and Pauline Medieval mysticism is represented by such examples as Echhart and S. Teresa In Protestant thought Boehme influenced William Law certain Qualter and Methodist tenets have mystical affinities. tenets have mystical affinities

Mythology Term denoting the sacred stories of a people or their study Myths are primitive stories, perpetuated by oral tradition, subserving the purposes of religion and morality, and bringing home to the community what must be believed and obeyed When there is an historic background they rank as legends

AAS Market town and urban district of Co. town and 1 Kildare, Irish Free State It is 20 m from Dublin on the GS Rlys Pop 3440

Nabob Word used in India in the time of the Mogul Empire for high

officials, and later for any person of rank. It had a temporary vogue in England in the 18th

century

Naboth Landowner in Jezreel whose vineyard, adjoining the royal palace, was coveted by Ahab, King of Israel He was stoned on a false charge arranged by Jezebel (1 Ki xxi) See JEZEBEL.

Nadir Term used in astronomy for that part of the heavens directly opposite to the zenith, or point of the heavens vertically above any place on the earth The zenith and nadir, therefore, form the two poles, superior and interior respectively, of the horizon

The term nadir cup or basin is applied to the

vessel of mercury attached to a meridian circle used for observing the nadir as the zero point

for measuring declinations.

Naevus or Mole Term applied to certain outgrowths of the skin, usually congenital and, therefore, sometimes called a "mother's mark." One form of naevus is due to an enlargement of the cutaneous blood ressels, and is known as a "port wine mark" Pigmented and hairy naevi may occur on various parts of the body

Nagasaki Town and scaport of Japan, sland It has a magnificent harbour For about 300 years it was the only port in Japan open for trade with Europo The town has some engineering works and other industries, and there is a European current. there is a European quarter Pop 204,626

Nagpur City of India, the capital of the Central Provinces, 450 m from Bombay The town has some manufactures Pop (1931) 215.165

Nahum One of the Old Testament minor prophets A native of Elkosh, identified by Jerome in the 4th century AD with a Galilean village, but later with a locality near Nineveh where his alleged tomb is shown His book predicts the fall of Nineveh, which recurred in 608 BC. occurred in 606 B C

Naiad In ancient Greek legend a female delty Naiads were nymphs of

rivers and springs Sec NYMPH

Nail Horny laver growing on the ends of fingers and toes. A thickening of the epidermis, it corresponds to claws and hoofs in other animals Lying on a nail-bed of consitive alin, it forms near the root an opaque lunula It grows continuously throughout life, being worn away or cut at the free end

Nainsook (Hindu, ngin, delight) Thir nain, eye, sulh, Thin muslin-like material of fine texture, with a specially soft finish. It is a variety of jaconet, and was originally made in India

Nairn Burgh and watering place of Nairn Nairnsbire It stands on the Moray Firth and a little river of the same name, 15 m from Inverness There is a harbour and some

inhabited by the fisherfolk is called Fishertown Pop (1932) 5282

Nairnshire County of Scotland It covers only 162 sq m., and has a short coastline on the Moray Firth Nairn is the county town other places are Auldearn and Cawdor The rivers are the Findhorn and the Nairn The land is hilly and unfertile, and the chief industry is the rearing of sheep Pop (1931) 8294

Nairobi Capital of Kenya Colony, East Africa, on the Uganda Riy, 327 m from Mombasa. It stands on a plateau over 5000 ft high The climate is excellent, and many Europeans visit the town as a starting point for expeditions into the colony It has a broadcasting station (49 5 M) Pop 70,960

Namaqualand District of South Africa It is divided into two parts, Great and Little Namaqualand, which are separated by the Orange River Great Namaqualand, part of the South-West Africa protectorate, is a desert region Little Namaqualand is part of the Cape Province The name is that of a Hottentot tribe, the Namaqua.

Name That by which a person or thing is denoted The choice or bestown! of personal names is governed by social usage, and in primitive culture is often attended by measures designed to counteract their malevolent misuse Nowadays one or more Christian or given names and a surname, usually the father's, are usual in Britain and Under English law elsewhere in Christendom a woman on marriage takes her husband's surname in Scotland, for all legal purposes, she usually retains her maiden name Members of the British roval family sign their baptismal names only, peers of the United Kingdom only their surnames or peerage designations Place-Name, Survame

Namur City of Belgium, standing where the Sambre falls into the Meuse, 35 m from Brussels A bridge across the Meuso leads to the suburb of Jambes There are some There are some

manufactures Pop (1931) 31,611
Owing to its position Namur has long been a fortified place In 1692 it was taken by the French and in 1695 by the English, after a long steps It was fortified by the Belgians in the 19th century, and was regarded as almost impregnable. In 1914, however, the forts were quickly reduced by the Germans, who enterd the town on August 25th

Nanaimo Scaport and town of British Columbia, on the Island of Vancouver, 73 m from Victoria It is a fishing centre, but is more important for its shipping There is a good harbour

Nancy Town in NE France The capital of the Meurthe-et-Moselle department, it has a population of (1931) 120,578, and was formerly the capital of Lorraine The older quarter of the town is picturesque, the modern eith has buildings and open streets. It is an important railway junction, and manufactures lace goods During the World War, in August, 1914, its suburbs were invaded.

Nankeen Strong cotton fabric, originally made in China from native fishing Nairn is the county town The quarter cotton of a yellowish drab tint Nankoen, or cotton twill is now manufactured in other countries from ordinary cotton and dyed to the requisite shade

Nanking Capital city and river port of China It is on the Yang tso Kiang, about 200 m from the mouth The industries include shipping and various manu factures Nanking was at one time the capital

factures Nanking was at one time the capital of China, and in 1928 with the settling up of a national government, it replaced Pekin as the nation's metropolis Near is an avenue of gigantic statues, leading to the tombs of the Ming dynasty Pop (1931) 633,452

Nansen Fridtjol Norwegian explorer Born Oct 10, 1861, after an arctic vovage in 1882, and the first crossing of Greenland in 1888, he attempted, un successfully in 1803 to reach the North Pole by successfully in 1893 to reach the North Pole by letting his ship freeze in the ice and drift with a current setting towards Greenland He wintered away from his ship, the Fram, at a latitude of 86° 14' North, only returning to civilisation in 1896. He was a professor of zoology at Christiania University, and a strong nationalist. He was Norwegian ambassador at London in 1800 Norwegian ambassador at 1800 Norwegian Ambassador at 1800 Norwegian Ambassador at 1800 Norwegian Am 1906 08, when he returned to academic life, making several oceanographic expeditions His relief work in the post war famine in Russia and other work as high commissioner for refugees to the League of Nations carned him a Nobel Peace Prize in 1923 He was instrumental in securing the entry of Germany into the League He was a mong other backs. the Learue He wrote among other books Eskimo Life In Northern Mists and Russia and the League the Peace He was elected Lord Rector of St. Andrews in 1925 He died May 13 1930

Nantes Town in Western France The capital of the department of Loire Inférieure, on the river Loire, it stands where the river divides into several branches, and has a population of (1931) 187,343

and has a population of (1931) 187,343
It has played a prominent part in Breton listory from the time of its commercial expansion under the Romans, and rivalled Ronnes for the sovereignty of Brittany Though, in feeling it has always been anti Protestant, it was here that the Edite of Nantes was signed in 1598, giving religious freedom to the Engagenes. the Huguenots

Nantes possesses a large and important port on the Loire, as well as a great maritime port, both accessible to big ships It exports slate and machinery, pit props and soaps, and imports coal, petroleum, sugar and grain.

Nantucket Island of Massachusetts
Its area is 48 sq m, and
the town of Nantucket is at the north end of
the island The light from Nantucket light
house is familiar to travellers approaching
New York The island was long the home port
of the great whole debatics. of the great whale fisheries

Nantwich Market town and urban dis the Weaver, 161 m from London and 4 m. from Crewe At one time Nantwich was a centre of the salt industry, but this no longer flourishes There are brine baths. Clothing and shoes are made Pop (1932) 7132

Nantyglo Market town of Monmouth shire part of the urban district of Nantyglo and Blaina, 162 m. from London on the GW Rly The chief occupations are in the coal mines and ironworks Pop (1931) 13,190

Naomi Old Testament character por-trayed in the Book of Ruth With her husband Ellmelech and their two

in time of famine Returning a childless widow, accompanied by her Moabitish daughter in law Ruth (qv) sho reached Bethlehem exclaiming toold friends "Call me not Naom

NAPIER

(pleasant) call me Mara (bitter)

Nap (or Napoleon) Game of cards, of French origin To each player, usually three to five, five cards are dealt from a full pack Each plays for himself The player calling the highest number of tricks proposed to be won leads, a declaration of five proposed to be won leads, a declaration of five tricks being called "going nap" The trump suit is that of the declarer's first card played On making his declaration, the player is paid by each of his opponents should he fail to make it he must pay each of them the amount of his stake. If the player declaring Nap succeeds he usually receives double stakes.

Naphtalı Israelitish tribe named after Jacob s younger son by Bil hah Their territory lay in the mountainous district of upper Galilee

Naphtha Term applied to derivatives either of petroleum coal tar, or wood Petroleum naphtha, a product of the distillation of petroleum, has a specific gravity about 0 700 and is used as a solvent and cleaning material Coal tar naphtha or light oil" is the first product of cosl tar distillation, and when refined is used under the name of solvent naphtha for dissolving rubber Wood naphtha is a form of methyl alcohol (q v)

Naphthalene Solid white hydro carbon which crystallises out from the "middle oils" formed in the distillation of coal tar It occurs as glittering plates having a peculiar tarry odour, and is soluble in hot alcohol and also benzene Naphthalene is used as an antiseptic for en riching water gas and coal gas, and it forms the basic substance for a large number of important intermediate dyestuffs by nitration and sulphonation, the most important being α Naphthol, β Naphthol and phthallic acid

Naphthol Alpha and Beta Solid hydro carbon derivatives of naphtha lene, used as basic substances in the preparation of a large number of aniline dvestuffs. Alpha naphthol is femployed in making Martius s yellow for silks and wool, as well as brown dyes for soops and spirit varnishes Beta naphthol is of still greater importance in the manufacture of intermediates and dyestuffs

Napier Town and scaport of North Is land, New Zealand Standing on Hawke's Bay, 200 m from Wellington there is a good harbour from which wool and meat are exported Napier was seriously damaged by earthquake in 1931 Pop (1932) 19,300

Napier John Scottish mathematician at Edinburgh in 1550 in 1593 he published his Plain Discovery of the 1593 he published his Flain Discovery of the whole Revelation of Saint John He devised warlike machines for use against Philip of Spain, and recommended salt as a fertiliser of the land Ho described his famous invention of logarithms in Minifel Logarithmorum Canonis Descriptio (1614) and the calculating apparatus called Napier's Bones in another Latin work in 1617 He died April 4, 1617

Napier Celebrated Scottish family Sir Charles Napier, British admiral was born March 6, 1786, near Falkirk. He took part in the capture of the West Indies, 1806 08 With her husband Elimelech and their two winning the title Count Cape St Vincent, he sons, she went from Bethlehem Judah to Moab stormed Sidon in the Syrian War of 1840, and in 1854 was commander-in-chief in the Baltic the Prince Imperial against Russia He was MP for Marylebone he was the only son 1842-46, and for Southwark, 1855-60 He died Empress Eugenle, and

Nov 6, 1860

His uncle, Sir Charles James Napier, British general and statesman, was born in London, Aug 10, 1782 He served in the Irish rebellion of 1798, in Denmark, and at Corunna. He took part in the Chesapeake expedition, and became Governor of Cephalonia in 1822 In 1841 Napier went to India and subdued the rulers of Sind by his victory of Meeanee He died Aug 29, 1853

His brother Sir William Francis Patrick

Aug 29, 1853
His brother, Sir William Francis Patrick
Napier, British soldier and military historian,
was born near Dublin, Dec, 17, 1785 He fought
in Denmark in 1807 and the Peninsula 1808
He wrote History of the War of the Pyrnaes,
(6 vols. 1828-40), and History of the Conquest
of Scinde (1845), among other books He died
Feb 12, 1860

Napier of Magdala. Robert Cornelius Mapier, 1st Baron British field-marshal Born at Colombo, Ceylon, Dec. 6, 1810, he distinguished himself in the two Sikh 1810, he distinguished himself in the two Sikh wars, was present at the relief of Lucknow, and later defeated Tantia Topi on the plains of Jaora Alipur in 1858. He served for a time in China, taking part in the entry into Peking, and in 1868 he commanded the Abyssinian expedition, and was given a peerage as a reward for his brilliant storming of Magdala He was afterwards successively Chief of the Forces in India, Governor of Gibraltar, and Constable of the Tower He was made Fieldmarshal in 1883, and died Jan 14, 1890

Naples City and seaport of Italy It is beautifully situated on the Bay of Naples, 135 m. from Rome, and has a fine anchorage On the north-east shore of the bay are the sites of Herculaneum and Pompeli, overshadowed by Vesuvius (q v), and near are the Bay of Baiae, the Lucrine Lake and Lake Avernus The islands of Ischia and Capri (q v)de off the coast.

de off the coast.

Built on volcanic slopes, Naples has many well-known streets and buildings, the former including the Toledo and the Corso Vittorio Emmanuele, and the latter the Museo Nazionale containing the Farnese and other art treasures, the castle of S Elmo (1537-46), the Castle Nuovo (1279-82), the roval palace, National Library, the cathedral of S Januarius (1294-1323), and over 230 churches The new university buildings date from 1906

The industries include silk, cotton, jute and wool manufactures, railway plant and automobile making, shipbuilding, etc. After the cholera epidemic of 1884 extensive slumclearance was carried out, and the city was largely reconstructed It has a broadcasting station (319 M., 15 kW) Pop (1931)

839,390

Founded by the Greeks, Naples remained Greek in culture under the Romans, suffered during the Gothic wars, and finally became independent in the 8th century. It remained independent till the 12th century, when it became the seat of the kingdom of Naples. The Kingdom of Naples existed from the 18th

The Kingdom of Naples existed from the 12th The Minguom of Naples existed from the 12th to the mid-19th century, and was ruled in turn by the Hohenstaufens the Angevins, and the kings of Aragon and Spain until it passed to Austria under Charles VI in 1713 After Garibaldi's liberation of Italy, it became part of the Sardinian kingdom (1860)

the Prince Imperial Born March 16, 1856, he was the only son of Napoleon III and the Empress Eugénie, and left France with his parents in 1870 He was trained as a soldier, and went out with the British army to Zululand, where he was killed, June 1, 1879

Napoleon French gold coin, first issued by Napoleon It consisted of 20 francs, and was worth about 16s

Napoleon I. Bonaparte. Emperor of the French Born at Ajaccio in Corsica, Aug. 15, 1769, and educated at military schools in Brienne and Paris, he soon rose to fame as an artillery officer of the new French Republic and in 1796 officer of the new French Republic and in 1799 was in command of the French army in Italy A series of spectacular victories made him the idol of France After a brief campaign in Egypt he returned, and by the coup d'état of 18 Brumaire (9th Nov. 1799), made himself First Consul under a new constitution which gave him autocratic power

His ambition now knew no limits, and he contrived to make himself Consul for life in 1802 after another successful Italian campaign In 1804 he became Emperor as Napoleon I Then followed a period of despotic government at home, with an almost constant succession

at home, with an almost constant succession of campaigns abroad
He destroyed Austrian opposition at the battles of Jena and Austerlitz, threatened England with invasion from Boulogne and defeated the Russians at Eylau and Friedland, but his ambition then led him into adventures which brought about his downfall, beginning with the unsatisfactory campaign in Spain, and lefar the disastrous march into Bussia and the with the unsatisfactory campaign in Spain, and later the disastrous march into Russia and the retreat from Moscow (1812) The end came with the battle of Leipzig (the "Battle of the Nations") and the invasion of France by the allies, which resulted in the abdication of Napoleon (1814) and his exile to Elba.

On Feb 26, 1815, he made one desperate effort, returned to France, and was decisively beaten at Waterloo on June 15, 1815 Surrendering to the British, he was exiled to St Helena, where he died May 5, 1821

He was married first to Josephine Tascher de la Pagerie, whom he divorced in 1809 in favour of Marie Louise of Austria "The greatest adventurer in the world," his genius showed itself not only on the battlefield, but in his detailed reorganisation of France, much of Wilcon III Charles Louis Napoleon

France, much of which still remains

Napoleon III. Charles Louis Napoleon

Bonaparte. Emperor of
the French, nephew of Napoleon I Born
April 20, 1808, the son of Louis Bonaparte,
King of Holland, he made two unsuccessful
attempts to displace Louis Philippe and the
Bourbons, and restore the Napoleonic dynasty
(1836 and 1840) After the Revolution of 1848
he accepted the Republic and was elected
President. In 1851, by a coup d'état, he dissolved the Constitution, and in the following
year became Emperor He carried out a policy
of administrative centralisation and remodelled Paris

His foreign policy was unsuccessful Though he gained glory for France by his participation in the Crimean War, his support of the disastrous attempt to make Maximilian of Habsburg Emperor of Mexico and his intervention in Italy on behalf of unification alienated Taxicas sections of Franch online The Garibaldi's liberation of Italy, it became part of the Sardinian kingdom (1860)

Napoleon

Eugene Louis Jean Joseph French prince, usually called the French and the collapse of the Second

Empire England, where he died Jan. 9. 1878.

Napoleonite Alternative name for rock found in Corsica and composed of an aggregate of spherical masses of radially and concentrically arranged felspar and hornblende

Narcissus Genus of bulbous herbs of of central Europe and the Mediterranean region, one species extends eastward to Japan. The special feature of the tubular perianth is the cup springing from the base of the flower-segments. Various species have furnished hundreds of cultivated and hybridised forms, sometimes double-flowered, often fragrant, including polyanthus or bunch flowered and pheasant's-eye types These present innumerable variations of size, and white or yellow colouring, sometimes with a scarletedged or frilled corona (q v ) See DAFFODIL, JONQUIL.

Narcissus In Greek mythology, a river-god, Cephissus, beloved by the nymph Echo He ignored her passion so that she pined away in grief, while he, seeing his own reflection in a fountain, became so enamoured of it that he too pined away, changing into the flower bearing his name

Narcotics as oplum, obloral cocaine, etc., which have a sedative effect and are therefore of value in relieving pain

Nares Owen Ramsay English actor Born Nares Aug 11, 1888, he trained with Miss Rosina Filippe, and first appeared in Her Father, at the Haymarket Theatre, in 1909 After touring provincially for two years, he played in London for eleven In 1926 he toured in S Africa. His best known parts have been Julian Beauclerk in Diplomacy, Philip in The Roy Comes Home Dater Bayens in The The Boy Comes Home, Peter Beavans in The Charm School, Mark Sabre in If Winter Comes, and Cary Liston in Two White Arms In 1936 he appeared in Youth at the Helm and Call it a Day at the Globe Theatre

Day at the Globe Theatre

Nares Sir George Strong English explorer Born in 1831, he entered the navy in 1846, and as mate of the Resolute, salled on the Arctic Expedition of 1852 After service in the Orimea he was in command of the Ohallenger, in her world voyage of deep sexploration. He commanded the Arctic Expedition in the Discovery and the Alert in 1875, and in 1876 surveyed the Magellan Strait. He was promoted Vice Admiral in 1892, and died Jan. 16, 1915

Nagarahal Scandinavian name of a ceta-

Narwhal Scandinavian name of a ceta-cean of the dolphin family, inhabiting the Arctic regions (Monodon monoinhabiting the Arctic regions (Moncoon mono-ceros) It is also called sea-unicorn. The male possesses a tapering tuak, spirally grooved, sometimes as much as 8 ft. long This projects horizontally forwards, usually from the left upper jaw, the corresponding right tooth sometimes develops also It is of compact ivery, with a central cavity In colour it is upper jaw, the corresponding right tooth sometimes develops also It is of compact ivory, with a central cavity In colour it is black grey above, white beneath, and frequents polar seas, usually in schools of 15 20

Naseby Village of Northamptonshire. It is 7 m. from Market Har borough, and is famous for the battle fought here on June 14, 1645 Charles I., with an army, was marching towards Leleester pursued by his enemies. He waited for them at Naseby, and won an initial success. Cromwell's men, however, turned the scale, and in the end the

The Emperor sought refuge in Royalists were routed. Charles escaped to be where he died Jan. 9, 1878.

Leicester, but his private papers were captured, as well as a large number of his men. An obelisk marks the site of the encounter

Nash Paul. British painter Born in London, May 11, 1889, he was educated at 8 Paul's School and the Slade School. He held his first exhibition in 1911, but it was not until 1918, when his work as an official war artist (1917-18) was shown, that he attracted attention. He developed charm and individuality as a landscape painter, and held on important exhibition in London in held an important exhibition in London in 1924 He also produced woodcuts, and book illustrations, of which the series of wood-engravings, "Genesis" (1924), are the most important

Nash Beau Nash Born at Swansea, Oct. 18, 1674, he entered the army, and in 1893 the Middle Temple, but forsook the law for society He made a precarious living by gambling, but in 1704 was made master of ceremonies at He conducted the public balls with a sumptuous splendour, and gained great prestige He died in poverty at Bath, Feb 3, 1762

Thomas Nash satirist. English dramatist and Nash satirist. Nash, who was called by Lowell "The English Rabelais," was born in 1567 He wrote amongst other works, Pierce Pennilesse, his Supplication to the Divili (1592), tull of keen satire and mainly autobiographical Other works were The Terrors of the Night, The Unfortunate Traveller and The Isle of Doogs, which was at once suppressed and is now lost. He completed Marlowe's unfinished tragedy, Dido He died in 1601

City and capital of Tennes Nashville City and capital of Tennes see, on the Cumberland River, 185 m from Louisville In Centennial Park is a replica of the Parthenon at Athens. It has a great trade in cotton, lumber, and tobacco, while there are also printing works and textile mills Pop 163,900

Near Nashville, on Dec 15-16, 1864, there was a great battle during the American Civil War The Confederates, or Southerners, were utterly defeated by the Federals in possession. Nashville

Nasmyth James Scottish engineer Born at Edinburgh, Aug 19, 1808, he started business in Manchester in 1834, and was soon head of the Bridgewater foundry at Patricroft, from which he retired with a fortune in 1856 He invented the steam hammer in 1839, to forge large paddle-wheel shafts for steamships, also many other appliances, among them a planing machine (The Nasmyth Steam-Arm) He died May 7, 1890.

Nasturtium  $\binom{1}{N}$  Genus of British and temperate cruciferous herbs, called watercress (qv) (2) Popular name for a genus of S American herbs of the

name for a genus of S American herbs of the geranium order, Tropacolum.

Natal Province of the Union of South Africa. It lies between the Indian Ocean and the Drakenberg Mts. N E of Cape Province, and has an area (including Zululand) of 35,284 sq m. Pietermaritzburg is the capital, and Durban the principal port. The province is rich in minerals, of which the most important are only and iron. Gold its also important are coal and iron Gold is also found, and marble is quarried There is considerable trade in timber, while coffee and sugar are grown, and cattle and horses reared. The name was given to it because it was discovered on Christmas Day, 1497, by Vasco da Gama The white population (1931) was 177,224, and there are about 1,300,000 blacks

of Galllee, he was introduced to our Lord by Philip (John i) He is variously identified with Bartholomew and others

National Anthem Term used for the official song of a nation God sate the King, the British national anthem, is attributed to Henry Carey and also to John Bull, but its exact authorship and also to John bull, but its event authorship is doubtful Among other national anthems are the French, La Marseillaise, the Belgian, La Brabaçonne, and the Canadian, The Maple Leaf for ever The USA, though without an official national anthem, have Hail Columbia, and The Star Spangled Banner, for popular use

National Debt Phrase used for money owing by a Most of it consists of money borrowed to carry on war Almost every country in the world has a national debt, and during the financial crises of 1931-32 several found it impossible to meet the interest payments thereon The Dominions of

the British Empire have each a national debt.
In Great Britain the national debt, as
distinct from the liabilities of the king, originated in the time of William III The amount ated in the time of William III The amount was greatly increased during the 18th century, A good deal was borrowed to finance the war against France, and in 1816 it had reached

£858,000,000

During the rest of the 19th century During the rest of the 19th century, except for the short period of the Crimean War, the dobt was steadily reduced in amount until in 1899 the total was only £635,000,000 The South African War, however, added another £150,000,000, and in 1914 the total was £150,000,000, and in 1914 the total was £706,000,000 The Great War increased ener mously the amount of the debt, and in 1920 it amounted to nearly £8,000,000,000, much of which had been borrowed at 5 per cent. interest Attempts were made to reduce the total, but on the whole they were not very successful and in March, 1934, the total amount owing was £8,030,400,000

was £8,030,400,000

This debt is divided into external and internal The external debt amounts to £1,000,660,000, chiefly owing to the United States The internal debt is divided into funded and unfunded debt. The total funded debt in 1934 consisted chiefly of consols and a 21 represent some external cape and amounted to 31 per cent conversion loan, and amounted to 63,374,300,000 The bulk of the debt is therefore unfunded It includes the 31 per cent war loan of £2,087,000,000, the 4½ per cent conversion loan victory bonds, savings certificates, treasury bonds and treasury bills The 3½ per cont war loan was a 5 per cent. loan until 1932, when a successful conversion scheme carried out Of the total amount about £500,000,000 is held by the Post Office Savings Bank on account of depositors, and about

4750,000,000 by departments of state
On the other hand there are assets which
may be set off against the enormous total of
the national debt. Nominally these are worth £2,445,500 000 nearly half consisting of debt owing by Russia. The remainder is owed by the Dominions and foreign countries, and there are certain other assets such as the shares in the Suez Canal and the Angle Persian Oil Co

The interest on the national dobt, and the cost of managing it, together with the New Sinking Fund, amounted in 1933-34 to 2241,000,000 To meet these payments, and also to reduce the amount of a name of a name of the second state of the second st also to reduce the amount, an annual sum of

Nathanael One of Jesus Christ's first £360,000 000 is set aside, so that there is about

£360,000 000 is set aside, so that there is about £660,000,000 for repayment, this sum being known as the sinking fund. There is also a national debt redemption fund, which receives donations and legacies for the same purpose National Gallery Any collection of ing to the state, but particularly the one in Trafalgar Square, London This dates from 1824, and the building from 1838, the latter has been enlarged soveral times. It contains a wonderful collection of paintings, nearly all a wonderful collection of paintings, nearly all the great masters being represented. It is under trustees and a director, and is open free, except on Thursday and Friday, when a small charge is made

Connected with it is the National Gallery at Milbank, founded by Sir Henry Tate and usually called the Tate Gallery (see TATE, SIR HENRY) It was opened in 1897 and is chiefly HENRY) It was opened in 1897 and is chiefly used for British pictures, although it has a foreign gallery it contains a fine collection of the works of Turner, and a special gallery for those of Sargent presented by Sir Joseph

Duveen
The National Portrait Gallery adjoins the National Gallery in Trafalgar Square It was opened in 1896 and has since been enlarged There is a National Gallery of Scotland at the Mound, Edinburgh, and a Scottish National Portrait Gallery in Queen Street, Edinburgh Other great national galleries are the Prado in Madrid and the Louvre in Paris

Nationalisation Acquisition by the state of land or any other public utility, usually by purchase In Canada and Sweden some or all of the milways have been nationalised The nationalisation of the land has been proposed in Great Britain, and a society exists to forward the idea, while the nationalisation of the coal mines and the railways has also been suggested Nationalisation has been extensively carried out in Russia under the Soviet, but in other countries it has been confined to public utilities, such as telegraphs and telephones

National Wark In Great Britain a tain articles of food to show that such are

tain articles of food to show that such are produced at home. The scheme was introduced in 1928 and is used for beef, flour, eggs, apples and other articles of food. See Grading National Trust in places of historic interest and natural beauty. It dates from 1895, and now holds a great deal of land and a number of buildings all over the country, some having been given to it and some purpose. and a number of buildings all over the country, some having been given to it and some purchased by subscription. The property held by the trust includes a large area of Exmool, Minchinhampton Common and soveral castles. The acquisitions in 1931 include Frankley Beeches, near Birmingham, Harcsfield Beacon, Loopeshay Morr near Sheffield and land in the

Beeches, near Birmingham, Haresfield Beacon, Longshaw Moor, near Sheffield, and land in the New Forest The offices are at 7 Buckingham Pilace Gdns, London, S W 1

Nativity Name of several Christian festicommemorated on Dec 25 sec Christy 18

The Nativity of the Virgin Mary on Sept 8, established in Rome in the 7th century, was adopted by the Lastern Church in the 12th The Nativity of John the Baptist, on June 24, dates from the 5th century. dates from the 5th century

Our Lord's birth has been commemorated in Our Lord's birth me been commemorated in art throughout the ages, nativity plays occurred in early mediacyal drama
Natrolite Fibrous mineral belonging to the zeolite group and found in

more massive form and as slender prisms. It is a hydrated silicate of alumina and soda and is so fusible as to be melted in a candle flame

Natron Natural form of sodium car-bonate, occurring usually in white or greyish efflorescent incrustations near certain lakes in Egypt, in Kenya Colony (Lake Magadi), and in British Columbia, having crystallised out from a concentrated In some instances the carbonate is mixed with the bicarbonate, as in the trona of certain Californian lakes

Natterjack Toad indigenous to W Europe (Bufo calamita)
Found in parts of England, Scotland and
Ireland, it is smaller than the common toad,
with shortened hind limbs short and nearly
webless toes, and a yellow line along the back The male has a vocal throat sac which, when distended, is larger than the head

Natural Gas Name given to various occurring in rocks of varied geological ago in Canada, the United States and elsewhere Canada, the United States and eisewhere due to the natural destructive distillation of carbonaccous rocks Accumulations of the gas are, in America, tapped by deep borings and collected for purposes of illumination and heating Carbon black, used extensively in the manufacture of printing ink, paints, gramo phone records, etc., also is obtained by the incomplete combustion of natural gas in special furnaces.

Natural History Term once used for the study of Natural History for the study of nature generally but later confined to zoology The Natural History Museum, opened in 1881, is in Cromwell Road, South Kensington, London, S W 7, and is a branch of the British Museum It contains botanical, geological, mineralogical zoological and other collections Nature from its original meaning of birth or origin It may denote the meta physical principle of life, or the forces and processes of the material world, often personlified, and regarded as the agency through which the Creator works Again it may denote the essential constitution or quality of a being or thing, its original uncultivated condition, or its innate character or disposition innate character or disposition Nature-study is a modern educational method

of bringing children into sympathetic contact with common natural objects By stimulating the powers of observation it forms an in valuable foundation of scientific knowledge

Ritual expression of rever Nature-worship ence for physical phenomena deemed capable of affecting human life In some stages of primitive culture these phenomena—rivers, mountains, animals, plants, storm, thunder, moon and sun etc—are variously deemed to be animated by powers akin to man s, or to be the abode of supernatural beings amenable to control by spell or to propitiation by prayer

Naucratis Ancient Greek settlement in Lower Egypt. Midway be tween Cairo and Alexandria, it monopolised Greek trade in Egypt from Aahmes II to the Porsian invasion 570 520 B o Petrie s (1885 6) and later excavations revealed much local and imported pottery and the remains of fort sanctuarles

Nausicaa In Greek fable, daughter of Alcinous, King of the Phaca-

basalts, usually in cavities, as beautiful tufts, clans, whose court was on the Island of Scheria of white, transparent acicular crystals or in (perhaps Corfu) Homer describes how the (perhaps Corfu) Homer describes how the shipwrecked Ulysses found her on the shore playing ball with her maidens, and was led by her to the king, to whom he related his

Nautch Girl Indian professional ballet tached to Hindu temples, performing sacred dances in belowelled dresses before the gods although private secular dances alone are strictly called nautches Moslem nautch girls engage solely in secular dances, as on the control approach to the control approach of the cont festival evening terminating the Ramadan fast

Nautilus Genus of certain which profooted mollages which pro-Genus of cephalopods or headduced in remote geological ages ammonites and other remarkable fossil forms The spiral shell is divided by thin walls or septa into a series of chambers, of which only the outermost is occupied. Of the three or four species confined to Indo Pacific waters the best-known is the pearly nautilus The female of the two-gilled argonaut, making a temporary shell cradic, was formerly called the paper nautilus See CCPHALOPOD A

Naval Cadet Youth undergoing train Naval College, Dartmouth, when in their fourteenth year After 3 years training, if satisfactory, they are appointed to ships where, if still satisfactory, they become mid shipmen (q v) A limited number of cadets may enter the College at the age of 17, direct from public schools being transferred to ships from public schools, being transferred to ships after one year's training

Naval Reserve British Navy Formed in 1853, it consists of officers and men enrolled from the mercantile marine and fishing fleets and called up to serve with the navy in times of national emergency The Royal Naval Volunteer Reserve, formed in 1902, affords facilities for using the services of yachtsmen and others net converted with cormologi and others not connected with organised maritime work at similar times The Royal Fleet Reserve consists of those who have already served in the navy

Navan Market town and urban district of Co Meath, Irish Free State, 30 m from Dublin on the GS Riys Here the Blackwater falls into the Boyne The town is an agricultural centre Pop (1926) 3650

Navarino Seaport of Greece now called Pylos Here, on Oct. 20, 1827, a combined British and French fleet so decisively destroyed the ships supporting an army that the Turks had landed, that the battle ended the attempt of Turkey to prevent Greece from securing her freedom

Navarre Formerly a kingdom between france and Spain, in the west of both countries with a coastline on the Bay of Biscay It arose in the 11th century and, of Biscay It arose in the 11th century and, after 1284, was ruled by the kings of France, who secured it by the marriage of Philip IV with its heiress In 1316 the two were again separated, and Navarre had a queen, the daughter of Louis X After being connected with Aragon Navarre came to another queen Catherine de Foix, the grandmother of that Honry who became King of Navarre and later, in 1589, King of France as Henry IV This once more united Navarre with France, except for a portion which had previously been except for a portion which had previously been included in Spain.

included the choir at the east end, though in later buildings the choir was cut off by a screen from the nave The clerestory, or upper part of the wall of the nave, was pierced with windows
Navigation Term applied to the art
of salling or directing a
ship on its course from one port to another
For this purpose charts for determining the

course, and plotting the position of the vessel at any given point, are necessary, as well as

the mariner's compass for taking bearings
From the time of Cromwell onwards a
number of laws known as the Navigation Acts were made for the regulation of shipping and the fostering of British trade. These acts increased the prices of imported goods and led to the early wars with the Dutch, and were repealed in 1849

Navy Supplement and personnel of a nation, used for purposes of war Early navies were built less for war than for comnaries were built less for war than for com-merce, though fighting craft were specially designed by the Phoeniclans, Athenians, Carthaginians, Romans, Norsemen and others The first English navy was built by Alfred the Great to fight the Danes, while the Normans regulsitioned ships from coastal towns and counties Later the navy was maintained entirely by the state Under Henry VIII and the Stuarts the navy was greatly improved, but received little further impetus till the time of

Nelson (qt)
Marked improvements are comparatively modern—the introduction of iron, first as a protection and, about 1860, for constructional purposes and later replaced by steel, and the introduction of steam propulsion. The development of the water-tube boiler, oil fuel, turbine electric and hydraulic power have revolutionised shipbuilding, of which full advantage has been taken in the navy. The introduction of submarines and aircraft added considerably to the range of naval activities, while refrigeration, wireless, range-finders and many other scientific devices have helped to maintain efficiency and to improve conditions maintain efficiency and to improve conditions

maintain efficiency and to improve conditions on the ships

THE NAVY AS A CAREER The commissioned ranks in the Royal Navy and Royal Mavines may be divided as follows

(1) Executive and Lagineer Officers in R N—Entry is through R.N College, Dartmouth, at the approximate age of 13½, or through H VS Ercbus between ages of 17½ and 18½. The period spent at Dartmouth is approximately four years and one year in H M S Ercbus Fees at Dartmouth are £150 a year, with reduced rates of £40, £70, and £100 a year in selected cases. No fees are payable for training in H M S Ercbus

Pay ranges from about £90 a year as Mid-

Pay ranges from about £90 a year as Midshipman to about £1100 a year as Captain or Engineer Captain, plus allowances Higher tates are paid to officers on the Flag List

(2) Accountant Officers in the R N Entry

Paymaster Cadets between the ages of 17 d 18 Pay ranges from about £90 a year as Paymaster Midshipman to about £1400 a year as Paymaster Rear-Admiral plus allowances
(3) Commissioned Officers in the R M Entry

between the ages of 18 and 19 Pav ranges from about 2135 a year as Probationary Second Lieutenant to 21100 as Colonel plus allowances Higher rates are paid to Officers on the General List

Candidates entered under these systems must leather

Nave Architectural term for the central satisfy an Interview Committee and pass the and largest part of a church. The prescribed educational and medical examinations in many cathedral and monastic churches tions. Full particulars as to entry may be satisfy an interview Committee and pass the prescribed educational and medical examinations. Full particulars as to entry may be obtained from the Secretary, the Admiralty, Whitchall, London S W 1

The R N or R M offers an attractive life to an active man, good pay and conditions, and

a pension on retirement

Navy Board Organisation formerly existing to manage the English navy It was set up in the time of Henry VIII and remained in existence until 1832 when it was abolished It was one of several departments responsible for managing the navy Samuel Pepvs was its secretary the navy Samuel Pepvs was its secretary At that time the office was in Seething Lane. London, L C

Island of Greece Covering 175 sq Naxos island of Greece of the Cyclades m, it is the largest of the Cyclades Naxos, a scaport on the west coast is the capital. Vines grow freely, although the land is mountainous, and the island is also famous for its marble. In ancient times it was a centre

Nazareth Town of Palestine, situated in a hollow of the hills bordering the plain of Esdraelon, midway between the Mediterranean and the Sea of Galliee Its association with Christ's early life made it a place of pilortimere from early times. made it a place of pilgrimage from early times

Nazarites (or Nazirites) Name mean separated in Nazarites ing "separated" and denoting certain Jews under a personal vow This included abstinence from wine and strong drink, from cutting of the hair and from contact with the dead. It might be temporary, for a month or more, or lifelong, en, Samson and John the Baptist Regulations are prescribed in Numbers vi

Naze The Cape of England It is in Essex, 5 m from Harwich and is a prominent landmark

Nazi Shortened form of National Socialist Party, the party which under Adolf Hitler has gained supreme control in Germany Its aims are similar to those of the Fascists in Italy, and its rule has had farreaching effects (Sce Hittifik)

Neagh Lake or lough of Ireland The largest lake in the British Islands,

""" Italian The Italian The largest lake in the British Islands,

""" Italian The Italian It

it covers 153 sq m It lies between the countles of Armagh Londonderry, Down, Tyrone and Antrim, and is noted for its fish

Neanderthal Man Extinct palaco With heavy brow-ridges and receding forchead they inhabited Pleistocene Europe during the they inhabited Pleistocene Europe during the Mousterian culture-period Fossilised remains were found in the Neanderthal ravine near Düsseldorf, 1856 Similar remains have come from Belgium, France, Jerscy, Malta, Galilee and Gibraltar The race is generally considered to be unrelated ancestrally to modern or Austracian man. Aurignacian man

Neasden District of Middlesex forming part of the urban district of Kingsbury, 5 m from London, to the N W of the city Sce Kingsbury

Neath Borough, market town and river port of Glamorganshire It stands on the River Neath, 183 in from London, by the G W Rly The chief industry is smelting

the GW Rly The chief industry is smelting, and there are tinplate and chemical works Pop (1931) 33,322

Neat's Foot Oil Oil prepared by oxen, sheep and horses, and used as a lubricant for delicate machinery and in the dressing of leather.

Nebraska State of the United States, it is an agricultural area, producing great quantities of maize, wheat, oats and fruit. Its area is 77,510 sq m Lincoln is the capital but there are no very populous cities It is governed by a legislature of two houses and sends two sends sends two senators and five representatives to Congress Pop (1930) 1,377,963

Nebuchadnezzar (or Nebuchadrezthree Babylonian kings Nebuchadnezzar II Nabopolassar s son, reigned 604 561 B o having as crown prince defeated Pharaoh Necho at Carchemish He took Jerusalom, carrying many Jews into captivity, 586 B o, besides capturing Tyre after 12 years' siege, and in vading Egypt. He carried out much temple and civic building at Babylon, Ur and elsewhere

Astronomical term for cloudy Nebula which are unresolved by powerful telescopes into stars or star-clusters. Many of the so-called nebulae of early observers have been shown by the ald of photography to be globular clusters of stars, but others are found to be composed of gases of very feeble density Nebulae may be divided into two classes, regular and irregular, the former consisting of luminous and dark nebulae, the latter of planetary, spiral, and the globular and spindle nebulae. One of the best known examples is the Great Nebula in the constellation of Orion

Nebulium Provisional name formerly given to a hypothetical substance supposed to exist in nebulae, and to be the cause of the greenish appearance they show when seen through a telescope, and of the presence of two bright lines in the green part of the spectrum Recently, however, nebulium has been shown to be only ionised oxygen and nitrogen

That portion of an animal's body Neck That portion of an attentions and folining the head to the trunk and having in all mammals, with few exceptions seven cervical vertebrae, whether the neck is long or short The muscular covering consists chiefly of the sternomastoid and trapezius muscles The carotid arteries and jugular veins are the chief blood vessels in this region and internally there is placed the ocsophagus traches, larvnx and the thyrold glands, the latter situated in the lower part of the neck.

Necker Jassues French financier Born at Geneva Sept. 30, 1732, he became a banker in Paris In 1777 he was made a director general of finance, but this was too late for him to save the country from bankruptev He published the famous Compte Rendu (Account Rendered) in 1781, and left office the same year In 1788 after a period of exile, he was recalled, and on his advice the states general was brought together Necker was again director general in 1790 in Switzerland, April 9 1804 He dled

Divination bу Necromancy conversation tended with a departed spirit. A professional sorcerer usually summons the spirit on the would be consultant's behalf, as the witch of Endor did the spirit of Samuel for Saul (1 Sam xxviii) Circe, in Homer's Odyssey, sent Ulysses to Hades to consult the dead seer Tiresias Mediacyal Europe corrupted the word to nigromancy, as if denoting 'the black art' or sorcery in general Necromancy still occurs in primitive cultures including negro and Bantu Africa and Melanesia

Necropolis Greek word, "city of the dead," anciently designating an extensive cometery in the subures nating an extensive cometery in the suburs of Alexandria, and now commonly used for any large burial ground found near an important centre of early civilisation. It also occasionally denotes a modern cometery in actual use, eq., the London Necropolis at Brookwood, near Woking

Necrosis

Term applied usually to the also used for the death of bony fissue. It is also used for the death of a circumscribed portion of any tissue, and is due to lack of nutrition of the part.

nutrition of the part

Nectar Term used by the Greeks for the drink of the gods Supposed to give life and beauty, it was forbidden to mortals, as to drink it conferred immortality The honey of flowers is poetically called nectar

Nectarine Smooth skinned variety of peach (qv) The skin of the ripe fruit is shinier, tenderer, and generally more crimson tinted, the flesh is firmer The method of culture is identical No essential No essential difference between the two exists, they sometimes grow side by side on the same tree, and peach-seeds will produce nectarines

Needles Three rocks off the west const of the Isle of Wight. On the outermost stands a lighthouse They were part of the Island until the intervening land was washed away early in the 19th century

Needwood District of Staffordshire between Burton and Lich-field It was once a royal forest and covers approximately 100 sq m It was formerly full of deer and other wild animals Most of it has been disforested but some parts remain woodland and the name is used Much of the land belongs to the Duchy of Lancaster

Negative In photography a term used for the plate or film on which a picture is developed with its lights and shades the reverse of what occurs in nature. Paper negatives were first used but were supersoded by glass in the wet plate of the collodion process and the later dry plate, these in turn being largely displaced by the roll film

Term used in law, mean-Negligence Term used in law, medi-ing want of reasonable Those guilty of negligence are liable to be summoned before the courts and made to pay damages Negligence occurs in connection with the driving of motor cars the keeping of property in repair, failure to erect fences, etc. If any person is injured by negligence of this, or any other kind, he can, if he proves his case, recover damages It is for the jury to say whether or no an accident is due to negligence See ACCIDENT

Negotiable Instrument ment which, by the act of transferring it conveye the legal right to the property it represents Cheques, bills of exchange and promissory notes are negotiable instruments, as are dividend warrants and bills of lading and bonds payable to bearer On the other hand share certificates and the deeds relating to real property are not negotiable instruments Custom has a good deal to do with the dis tinction if it can be shown that a particular class of document has been regarded, in the trade concerned, as a negotiable instrument, the courts will uphold this view

Negrito Spanish name denoting diminu tive peoples of the black race in SE Asia, and the allied negrillo pygmics of

equatorial Africa. Dark-skinned, black-haired, the adult male stature never exceeding 4 ft. 11 in, the Asiatic section comprises the Andamanese of the Bay of Bengal, the Semang of Malaya, the Aeta of the Philippines and the Tapiro of Dutch New Guinea. The African pygmics, usually shorter, even down to 4 ft. 4 in, yellowish or reddish-brown, include such groups as the Bambute, Akka and Batwa.

Negro Name denoting dark-skinned, Negro woolly-haired African peoples A branch of the negroid division of mankind which includes the E Aslatic Papue-Melaneslans, the pure negro race inhabits W Africa, sians, the pure negro race inhabits W Africa, S of the Sahara, an eastern or Nilotic section, betraying more ethnic intermixture, extends from the E Sudan to the Kenya coast They have narrow heads, broad noses, prominent jaws, large teeth and thick lips Displaying in places much Caucasian contact, they shared in forming the Bantu peoples Agricultural or pastoral, they live an unprogressive social life marked by magico religious beliefs There are large populations of negroes in the W Indies and America, whither their ancestors were transplanted as slaves before the abolition of slavery slavery

slavery
THE AMERICAN NEGRO The negroes in
USA. now number over 12,000,000, mostly
descendants of slaves imported from West
Africa, but some immigrants from the British
West Indies They were all slaves in the North
and South until 1863, working as family servants, artisans and agricultural labourers In
1865-69 laws were passed giving full civic rights
to the negro, although since then the negro in
the South has become more or less disenfranchised and is treated as a separate race

une south has become more or less disen-franchised and is treated as a separate race Under the influence of Booker T Washington the negroes rose steadily, becoming good far-mers and artisans, with efficient educational and religious institutions of their own Negroes have risen to eminence in all walks of life

The negro question, however, is still a major problem in the U.S.A., and occasional lynchings testify to the acuteness of feeling against miscegenation, while social recognition of the educated negro is the exception rather than the rnie

Nehemiah Jewish cupbearer to the Nehemiah Persian King Artaxerxes Longimanus Commissioned, in 444 BC, to rebuild the walls of Jerusalem which Zerubbabel, when restoring the temple, had neglected, he overcame local opposition, encouraged all to co operate and accomplished the task in 52 days The Book of Nehemiah, supplementary to Ezra, describes the events at Shushan preceding the return, rebuilding, dedicating the wall and restoring the temple service After sojourning in Persia for 12 years he revisited Jerusalem

Nehru Pandit Motilai Indian Swarajist Nehru leader Born May 6, 1861, he became an advocate in the High Court of Allahabad. In 1919 he turned his magnificent residence into a free school, and founded the Independent, an aggressively nationalist paper

residence into a free school, and founded the Independent, an aggressively nationalist paper. He presided over Congress in 1919 and 1928, supported Gandhi in his non-co operative campaign, and was imprisoned. He was president of the Swaraj party in 1928, presided over the "All-Parties Conference" at Hombay, which formulated the Newsy Bonart laving which formulated the Nehru Report, laying down a scheme for Dominion status for India He endorsed Gaudhi's "civil disobedienco" campaign in 1930, was sentenced to six month's imprisonment and display to Lucione. imprisonment, and died at Lucknow, Feb 6,

Nehru leader and Socialist Born November 14, 1889, son of Pandit Motilal Nehru, he was educated at Harrow and Trinity College, Cambridge He is a Bar -at-Law of Inner Temple and Allahabad High Court Since 1918 he has been a member of the All-India Congress Committee He was President of the Indian National Congress, 1929-30, and was again elected for 1936 Participated in Non Cooperation Movement, Salt Satyagraha in 1930, O'D Movement in 1932, and has been imprisoned five times His wife Kamala, an active Congress-woman, died in February, 1936

Neilston Town of Renfrewshire, on the LMS Rly. 10 m. SW of Glasgow It has various industries connected with cotton Pop 16,200

Nejd Kingdom of Eastern Arabia A lofty plateau, it is largely desert, with numerous fertile oases in the north and east,

numerous fertile oases in the north and east, supporting a large settled population. The products include dates, barley, wheat, hides, fruit, camels, and horses. Riyadh is the capital Pop (estimated), 3,000,000.

Becoming a Turkish dependency in 1871.
Nejd retained a measure of independence till its liberation by Ibn Sa'ud (qv) between 1905 and 1914. After the Great War Ibn Sa'ud and his Wahhabi followers extended their dominions to include the Heinz (qv). to include the Hejaz (qv)

Nelson Borough of Lancashire, 30 m from Manchester on the LMS Rly The chief industries are cotton mills and engineering works Pop (1931) 38,306

Nelson Town of British Columbia, 1102
Nelson miles from Winnipeg and reached
by both the CPR and CNR lines It stands
on Kootenay lake and is the chief town of a
district in which lumber is cut and silver mined There are saw mills and smelting works It is also a port for the shipping on the lake Pop (1931) 7000

Nelson City and seaport of New Zealand, on Tasman Bay, on the north coast of South Island There is a fine harbour and the town has some manufactures Nelson is the capital of a district which has an area of 10,000 sq m. Pop (1932) 12,700

Nelson River of Canada It flows from Lake Winnipeg in a NE direction into Hudson Bay, where at its mouth is Port Nelson It is 400 m long, but is of little use for shipping owing to its rapids The chief tributary is the Burntwood.

Nelson Horatio, Viscount British admiral Born at Burnham Thorpe, Norfolk, Sept. 29, 1758, he entered the navy in 1770, and in spite of bad health saw continuous service until 1787 when he married and retired with his wife to Burnham Thorpe Returning to the navy in 1793, he fought in the Mediterranean and while commanding the Naval Brigade at Calvi, Corsica, lost his right eye. He continued his service in the Mediter-

He continued his service in the Mediterranean, and as Commodore was responsible for the victory off Cape St Vincent in 1797. In the same year he lost his right arm in an engagement at Santa Cruz

In 1798 he won an overwhelming victory over In 1798 he won an overwhelming victory over the French in Aboukir Bay (see Nill, Battle of the) His rewards for this victory included a barony, large sums of money, and the Dukedom of Bronté in Sicily He formed in this year a liaison with Emma, Lady Hamilton, which lasted until his death, their daughter, Horatta, being born in 1801. In 1801 he won another victory at Copenhagen, and in Oct, 1805, Nolson, now a viscount and Commander in-Chief, sailed to his last victory. The Battle of Trafalgar ended in the annihilation of the Franco Spanish fleet, but Nelson, mortally wounded, died as victory was assured, on 1805,

The most famous of British seamen, he was a great leader of men, well known for his humanity and kindness, and an unrivalled strategist. In recognition of Nelson's services to his country, his brother was made Earl Nelson of Trafalgar

Nemesis in Greek mythology, the personification of retribution she was regarded as the goddess charged with readjusting immederate good fortune and checking the presumption attending it.

Nem1 Lake of Italy Supposed to be the crater of an extinct volcano, it is situated in the Alban Hills, 20 m from Rome In the hope of finding valuable treasures, in 1929 the lake was partly drained, but the finds, which included remains of two galleys, did not come up to expectation.

River of England It rises in Northamptonshire and flows through that county and Lincolnshire to the Wash It is 90 m long and on its banks are Northampton, Wellingborough, Peterborough and others.

Nenagh Urban district and market town of Tipporary, Irish Free State It stands on the river of the same name, 96 m from Dublin The industries include alate

Neolithic Term denoting the highly finished and polished stone implements characterising the later phase of the prehistoric Stone Age, contrasted with the ruder workmanship of the earlier or palaco lithic phase They are found scattered through out Europe and elsowhere, associated with other evidences of a well marked civilisation, to which the same term is now applied During this cultural stage mankind started on agriculture, and introduced plant and animal domestica-tion, pottery, basketry and weaving The grinding of stone edge tools led to carpentering, improved navigation, megalithic building, settled homes and ever-increasing refinement, which culminated in the development of metal Neolithic conditions still persist smelting among various backward peoples

Gascous element occurring in minute Neon proportions in the atmosphere is associated with argon from which it was isolated in 1898 by Sir William Ramsey Its symbol is Ne, atomic weight 20 2 and its spectrum shows red, orange and yellow lines Neon is used in special lamps for producing an orange red light by passing an electric

discharge through the gas

Nontrice Term "newly planted," de Neophyte noting in early Christianity a newly baptised person Neophytes passed through a pre baptismal stage as catechumens S Paul enjoined Timothy not to select bishops neophytes (1 Tim iii) The Roman iii) from neophytes (I Tim iii) The Roman Church designates as such newly converted heathens or heretics, and sometimes newly ordained priests or novices of a religious order

Neo-Platonism Last school of philosophy Combining elements of Platonism and Stoicism with Oriental doctrines, it was influenced by the philosophy of Philo and the Gnostics, emerged in 3rd century Alexandria under Ammonius Saccas, and was profoundly re

modelled by Plotinus, whose views were modelled by Flotinus, whose views were popularised by Porphyry and modified in the direction of mysticism by Iamblichus It influenced Clement, Origen, Augustine and other early Christian fathers, but succumbed to the rival teaching of Christianity

Neoptolemus (or Pyrhus) In Greek and Doldamia. Handsome and brave he proceeded to Troy in the last year of the war, entered the city with the heroes concealed in the wooden heroe, slow King Priam and afterwards his daughter Polyxena, and took to Epirus Hector's widow Andromache, awarded to him by lot He plundered the Apollo temple at Delphi, wedded Hermione, and was slain

by her promised consort, Orestes

Nepal Kingdom of Asla, in the Himalavas.

It has Tibet on the north Silkim on the cast and India on the south and west. It is 54,000 sq m in extent and is governed by a maharajah Katmandu is the capital by a manufacture remainly Gurkhas and the state has an army of 45,000 men Cattle are reared and wheat, rice and other crops are grown There are large forest areas The country is quite independent its autonomy having been recognised by Great Britain in a treaty signed in 1923 Pop 5,600,000

Nepheline A rock forming mineral con-alumina, soda and potash, and occurring as hoxagonal prisms, usually white or colourless, in lavas, phonolite and other cruptive rocks, associated with potash felspar or with granets, mica and hornblende A dark coloured greasy variety also lite account in cortain sysulfix variety, elacolite, occurs in certain syenites.

Nephrite A compact variety of either tremolite or actinolite, two closely allied minerals of the amphibole group Nephrito or jade is white or green in colour, very hard and tough White nephrite is a tromolite mineral consisting of silicate of calcium and magnesium, while green nephrite or greenstone has, in addition, iron as in actinolite

Inflammation of the kid Nephritis Inflammation of the Kid neys Its most prominent symptom is the presence of albumin in the urine, dropsy frequently supervenes nephritis commonly arises from exposure to cold, especially after alcoholic intemperance, from irritant poisons, or as a complication of various other acute diseases. Local means of relieving congestion, such as hot fomentations, and confinement to a warm bed are important, should the disease reach the chronic stage the patient may have to anticipate a semi invalid future See Bright's Disease

Neptune Roman god identified with Poseidon (q v), god of the sca. He is represented as holding a trident, the

emblem of his power

Neptune of the solar system. It was discovered by Galle at Berlin Observatory in 1846, its position having been indicated by Leverrier Its distance from the sun is 2794 million miles and its year equals 165 of ours. The diameter of the planet is about 31,225 m. slightly exceeding that of Uranus, and its mean density is 154 It has one satellite which moves in a retrograde orbit in about five days, twenty-one hours

In Greek legend a god of the Nereus sea son of Pontus and Gaea. He had 50 daughters who were called the Nerelds, one being Thetis, the mother of Achilles He was supposed to possess prophetic powers and in art is shown as an old man holding a trident

Neri Philip Italian saint Born at Florence, July 21, 1515, at the age of 18 he went to Rome In 1564 he became a priest, and after gaining a number of disciples he instituted the religious exercises for which he is famous He encouraged musical and religious entertainments at holiday times, the origin of the Oratorlo (q v) In 1564 he established lished the Oratory, a community which was approved by the Pope He died May 26, 1595, and was canonised in 1622

Nernst Walter German chemist Born at Briesen, Germany, June 25 1864, he became Director of the Physical Institute at Charlottenburg until 1924, after studying and assisting at different universities In 1925 he took up the same position in the University at Berlin

Nernst is known for his invention of an electric glow lamp and for his statement of the third law of thermo dynamics He also initiated important measurements in specific heats at low temperatures. In 1920 he received

the Nobel prize for physics

Nero Roman emperor Born at Antium, the Emperor Claudius in 50, and succeeded him in 54, displacing Claudius' son, Brittanicus His reign was marred by a series of murders attributed to him His mother, two successive wives, and Brittanicus were among the victims He blamed the Christians for the burning of Rome, and had many put to death, afterwards building a magnificent new city In 68 his troops revolted in favour of Galba, and Nero fled from Rome, saving himself from execution by suicide on Tune 9

Nerve White clistening cord-like structure consisting of a bundle of numerous nerve fibres, each measuring about 272 inch in thickness and forming part of the nervous system controlling and regulating the move ments and functions of the body. Each consists of an axis surrounded by a fatty layer and a delicate membrane All nerves are outgrowths from the cerebro spinal system, those conveying impulses from the brain are termed motor or efferent nerves, while those conveying impulses to the central system are known as afferent or sensory nerves and upon their nerve roots are ganglia or masses of nerve fibres and cells

Ness Loch and river of Inverness shire The loch is 22 m long and is used to form the course of the Caledonian Canal Its waters are carried to the Moray Firth by the River Ness which is 7 m long

Nessus In Greek lexend one of the Hercules with a poisoned arrow and, in revenge, he gave to Deinneira, the wife of Hercules a poisoned cloak Hercules put this on and met a painful death The phrase "Nessus shurt" is derived from this incident

Neston District of Cheshire, 12 m from Chester and 191 from London by the L M S Rly Situated on the estuary of the Dec. It is in a coul mining area. Neston forms

the LMS RIY Situated on the escalary of the Doe, it is in a coal mining area. Neston forms part of the urban district of Neston and Parkgate Pop 5191

Nestor In Greek legend, son of Neleus and Chloris Sharing in youth the Argonaut adventure and the hunt for the Calendarian boar hat cole part as the great King. Calvdonian boar, he took part as the aged King of Pylos in the Trojan war His wise counsels were highly valued by the other Greek chieftains

Net-Ball (or Basket Ball) Had its origin in the United States in 1892, where its vogue as an indoor game quickly spread, though in England it is frequently played outdoors upon grass or asphalt by English women and girls It is played on court 95 ft long, at each end is a goal con sisting of a small bottomless net suspended on posts 10 ft high The aim is to throw the ball through the opponents' net, by passing from one player to another A team may comprise from player to another A team may comprise from six to nine players

Netherfield Town of Nottinghamshire, 1 to m from Nottingham It has factories for the manufacture of lace and hosiery, and is part of the urban district of Carlton

Netherlands (or Low Countries)
Netherlands (for Low Countries) the countries now known as Belgium and Holland In modern speech it refers to the eleven provinces of Holland See NETHERLANDS, Kingdom of the

The Netherlands has had a stormy and heroic history, being a long struggle against the supremacy of Spain and the burden of Roman Catholicism which that country laid William the Silent is the dominating upon it figure of the struggle, and his successors include our own William III The Dutch Republic emerged from the struggle at the end of the 16th century, and for the next century was a maritime and commercial power of prime importance At the end of the 18th century it became the Batavian Republic, and the modern kingdom came into being in 1813 Relgium became a separate kingdom in 1831 Belgium became a separate kingdom in 1831 See BELGIUM, HOLLAND

Netherlands Kingdom of the Country Netherlands of north-western Europe, commonly known as Holland It is bounded on the east by Germany, on the south by Belgium, and on the north and west by the The country is mainly low-lying, North Sea North Sea The country is mainly low-lying, and is drained by the Rhine, the Maas (Meuse) and the Schelde The Zuider Zee has now been separated from the sea by a dike, and has already been partially reclaimed Dikes have been constructed at different times to protect the country from inundation by the sea, and the rivers have been largely canalised Of the total area (12,761 sq m) nearly half is below sea-level Pop (1933) 8,290,389

The kingdom, set up in 1814 as a bulwark against France, at first included the Belgian Netherlands, but Belgium broke away 1830-31 Thereafter Holland played little part in Duropean history, remaining neutral throughout the Great War In 1932 Holland entered into a tariff union with Belgium and Luxembourg Helland is ruled by a constitutional monarch.

Holland is ruled by a constitutional monarch (Wilhelmina) and the States General, consisting of an upper chamber of 50 members and a lower chamber of 100 deputies The Prince Consort died in 1934 There is universal suffrage over 25 years of age The political The political capital is the Hague, and the commercial capi-tals Amsterdam and Rotterdam Other large towns are Utrecht, Gröningen and Haarlem

The country is primarily agricultural, intensive stock breeding, general agriculture and flower-growing being carried on The chief manufactures are shipping, bricks, margarine, cocoa, linen, cottons, etc Coal is produced, cocoa, linen, cottons, etc Coal is produced, and there is a great diamond-cutting industry

at Amsterdam
The country has extensive possessions in the
East Indies and the West Indies See Java
Sumatra, Borneo, Moluccas, Surinam

Netley Village of Hampshire It stands on Southampton Water opposite Southampton The large military hospital at Netloy, opened in 1856, is called the Royal Victoria Hospital Near are the extensive and beautiful rulns of a Cistercian abbey

Nettle Typical genus of herbs of the nettle order, scattered over tom perate and subtemperate regions (Unica) The

Nettle Typical genus of herbs of the perate and subtemperate regions (Urtica) The stem and leaves bear stinging hairs Of the three British species the tender shoots of the great perennial downy U dioica, 2 to 4 ft high, are used as a pot herb The strong bast fibres of the stem have been fashioned into yarn and paper The smaller annual species is smooth leaved except for the stinging hairs, the coarser Roman nettle, long naturalised, is the most virulent.

Nettlerash (Unicaria) Diffuse red ness of the skin accompanied by wheals, raised and pale in colour, causing great irritation and itehing. The rash is produced by some article of diet, such as shell fish, which does not suit the individual, and will disappear when the cause is removed. An aperient should be given, and a cooling lotion or dusting powder will allay the irritation

Nettle Tree Handsome tree of the the Mediterranean region eastward to China (Celtis australis) It is straight trunked, 30 to 40 ft high, with toothed, lance-shaped leaves and small, sweet blackberries The wood is dense and fine grained the branches make good hayforks The allied N American C occidentals is the hackberry

Neuchâtel Capital of the Swiss canton of that name, it is at the north-eastern end of Lake Neuchâtel It is built partly on the slope of the Chaumont, and partly on new alluvial land Pop 23.152

north-eastern onto a Lake Neughard It is built partly on the slope of the Chaumont, and partly on new alluvial land Pop 23,152

Lake Neuchâtel, the largest in Switzerland, has an area of 92‡ sq m is 23‡ m long, and from 3‡ to 5 m broad It receives the River Thièle and several others The chief places on its shores are Estavayer, Yverdon, Serrières and La Tène

Neurlly District of Paris, on the Seine fair On Nov 27, 1919, Bulgarla and the Allies signed a treaty of peace here

Neuralgia often used loosely for any pain of obscure origin. It strictly denotes pain in the whole or part of a sensory nerve without recognisable structural change. It may be tic douloureux, pain in the fifth facial or trigeminal nerve, margine, referred to half of the head, intercostal, pain in the nerves running from the spinal cord between the ribs to the front, or sdattea. It sometimes results from pressure by a tumout, or indirectly from decayed teeth

smattca it sometimes results from presure by a tumout, or indirectly from decayed teeth Treatment—Neuralgia will often yield to aspirin tablets, two at a time if they suit the individual, and to the application of external heat Facial neuralgia is sometimes due to decayed teeth or to defective oyesight, and sufferers should have these matters attended to A run down condition and exposure to sudden cold is often the cause

Neurasthema Torm, literally "nerve weakness," denoting a condition of nerve exhaustion which renders the sufferer incapable of sustained exertion It may arise from physical or mental overstrain, hardship, worry or self indulgence, and may be attended by constipation loss of appetite, sleeplessness, irritability and depression. It

may affect the brain, heart, stomach or the sexual life

Neuritis Inflammation of one or more bundles of norve fibres Exposure to cold or injury may affect a single nerve, this localised neuritis impairs muscular action, occasioning, if the facial norve be affected, facial paralysis Multiple neuritis, due to general or constitutional causes, results in the breaking down of the smaller nerves I may arise from acute or chronic poisoning by alcohol, lead, arsenic and other substances, or the toxins of acute infective diseases, e.g., diphtheria and influenza.

Neurosis Nervous disorder not asso ciated with recognisable organic changes. It may take the form of hypochondriasis, hysteria, neurasthenia phoblas or obsessions (q v). It is distinguishable from psychoses mental disorders such as delusional insanity or melancholla, the generic term psychoneurosis conveniently embraces various borderland cases. Occupational neurosis is any nervous disorder caused by the sufferer's occupation, such as writer's cramp. The adjective neurotic frequently applied to sensitive women, may loosely indicate tendencies not referable to a distinct neurosis

Neutrality Condition of a state, ab staining from participation in a war between other states and maintaining an impartial attitude in its dealings with the belligerent states, with the recognition of this impartiality by the warring states. The neutral state cannot supply any ships, men, food or money to those at war, nor erect special wireless stations, through which news can be transmitted.

Neuve Chapelle Village of France ment of Nord During the Great War it was a strategic position of great importance, lying at the inpution of several roads

the junction of several roads

The Battle of Neuve Chapelle was fought on
March 10 12, 1915, between the British and
the Germans, and was an Allied victory,
though not carried out to its desired conclusion
Casualties were heavy on both sides, the
British losing a total of 12,811 Indian troops
took a share in this battle

Neva River of Russia It rises in Lake Ladoga and flows past Leningrad to the Gulf of Finland, which it enters by several mouths Although only 45 m long, it is important from the commercial point of view, as it unites Leningrad with the Baltie, and by means of other waterways with the Caspian

Nevada Western state of the United States It is chiefly a mining area and produces a good deal of gold and silver The soil is on the whole unfertile, but irrigation works have improved it, and a certain quantity of wheat, barley and other crops are grown The state area is 110,600 sq. in, and the capital is Carson City It is governed by a legislature of two houses, and sends two senators and one representative to Congress Pop (1930) 91,058

Neville English family In the Middle Ages it had great estates in the N of England, and its members were Earls of Westmorland and held other titles The most prominent of the Nevilles was Richard, Earl of Warwick, the king maker The great castles at Raby and Middlaham once bolonged to the Nevilles, who lost their power in the north during the rolgn of Elizabeth To-day the

Norilles are represented in the peerage by the Marquess of Abergavenny and Lord Braybrooke !

Neville's Cross Spot near Durham There on Oct 17, 1346, the English army defeated a Scottish army under King David II, who was among the prisoners There is an old cross here

Village and seaside Nevin Caernaryonshire It is 6 m. northcast of Pwllheli, and was formerly a consider-

able town Fishing is carried on Nevinson Christopher Richard Wynne English artist Born on Aug 18, 1889, he was educated at Uppingham, the Slade School and Paris He first exhibited work in London in 1910, and has exhibited in London, Paris, New York, Washington and Chicago continually since then He served in Flanders in 1914-15, and was discharged from the army in 1916 He exhibited war paintings at the Leicester Galleries, and on his appointment as Official Artist, returned to France in 1917 His works have been purchased by the British War Museum and the Canadian War Memorials Fund In 1920 he was the Slade School and Paris He first exhibited work War Memorials Fund In 1920 he was the official representative of British Art at Prague, by invitation of the Czechoslovakian Republic

Nevis One of the Leeward Islands, British W Indies Its area is 50 sq m, and its capital Charlestown Sugar and cotton are exported

Nevis Bon See Bev Nevis

Newark Borough and market town of Nottinghamshire It is on the Trent, 10 m from Nottingham and 120 from London, on the L.N.F. Riv. The town is an important agricultural centro, but has also engineering works, malt houses, broweries and other industries. Its castle withstood three eleges in the Civil War, and the church of S Mary Magdalone has an octagonal spire 223 ft high. Pop. (1931) 18,058

Nowark is called Newark-on-Trent to distinguish it from other Newarks. One of them is near Woking and another near Port Glasgow.

Newark City of New Jersey, the largest in the state It stands on the Passale River, 9 m from New York. There are manufactures of chemicals, clothing and other articles. Pop 442,337

Newbattle. Village of Midlothian It

Newbattle Village of Vidiounian is on the South Esk, adjoining Dalkeith Here is Newbattle Abboy, the seat of the Marquess of Lothian English

Newbolt Sir Henry John English author and poet Born June 6, 1862, he was educated at Clifton College and Corpus Christi College, Oxford He was called to the Bar in 1897 and practised until 1899 He to the Bar in 1897 and practised until 1899 He created his literary reputation with the ballads Admirals All (1897), followed by other stirring sea poems—including Drake's Drum He wrote two novels—The Old Country and The New June Si George's Day and Other Poems appeared in 1918, other publications are Naval History of the Great War (1920), Studies in Green and Gray (1926), New Paths on Helicon (1927) He was Controller of Wireless and Cables during the war, and was knighted in 1915.

New Brighton Watering Cheshire place Mersey, 4 m. from Birkenhead, it forms part of the Borough of Wallasey It has steamer connection with Liverpool and elsowhere On the

East | New Britain Island of Indies It the It is near New

Guinea, from which it is divided by St George's Channel lt covers 9600 sq m and Rabaul is the capital another port is Kokopo, formerly known as Herbertstoke The Island is mounruiber, coffee, etc. The only part that is settled and cultivated is the Gazelle Peninsula in the north Pop (1931) 88,000

New Brunswick Province of Can-Lying cast of Quebec, with the state of Maine on the south-west, it borders the Gulf of St Lawrence on its north east shore, and on the south connects with Nova Scotia and with the Atlantic by the Bay of Fundy Mainly undulating, it is mountainous in the north west, is well forested, and has many lakes The chief rivers are the St John, Miramichi and Restigouche Lumbering, agriculture, fisherics and mining are the chief industries, and the tourist and hunting business is extensive There are considerable water powers

Now Brunswick, once part of Acadia, was ceded by France in 1713 and settled by the English in 1764 Separated from Nova Scotia in 1784, it joined the Canadian federation in 1867 and sends 11 members to the Dominion House of Commons, and 10 senators Frederic ton is the capital and the seat of the provincial government, but St. John (qv) is the largest city Pop (1931) 408,255

Newburgh Burgh and capport of Fifeshire It is 7 m from Ladybank by the LNE Rly and is on the Firth of Tay There is a harbour for the fish-

Firth of Tay There is a harbour for the fishing, and some manufactures Pop (1931) 2152
The title of Earl of Newburgh, dating from 1660, is now held by the Italian family of Giustiuiani-Bandini The earl's eldest son is known as Viscount Kynneird

Urban district of Northum-Newburn horland A colliery centre it is 6 m west of Newcastle, and 276 m. from London by the L N E Rly The town stands on the Tyne, and has metal works and some manufactures Pop (1931) 19,539

Manufactures Pop (1931) 19,539

Newbury Borough and market town of Berkshire It stands on the Kennet, 17 m from Reading and 63 from London by the GW Rly, on which it is a junction. The chief trade is in agricultural produce and sheep At one time Newbury was noted for its wool It is on the main road from London to the west The borough includes Speenhamland Pop (1931) 13,336

During the Civil War, Sept 20, 1643, the royalists were defeated near Newbury, but on Oct. 26 1614, the parliamentary forces were defeated here

defeated here

New Caledonia tralasia, in the S Pacific Ocean It has an area of 7650 sq m. and was discovered by Captain Cook in 1774 In 1853 it became French, and some ten years later was founded as a penal settlement which it continued to be until 1895. Pop 47,505

Newcastle City and river port of New at the mouth of the river Hunter, 73 m. by railway from Sydney A mining centre, it has accommodation for the sydney and the sydney are sydney as the sydney as the sydney are sydney as the sydney as the sydney are sydney as the sydney are sydney as the sydney as the sydney are sydney as the sydney as the sydney are sydney as the sydney are sydney as the sydney are sydney as the sydney as the sydney are sydney as the sydney are sydney as the sydney as the sydney are sydney as the sydney are sydney as the sydney as the sydney are sydney as the sydney are sydney as the sydney as the sydney as the sydney are sydney as the sydney as the sydney are sydney as the sydney are sydney as the sydney as the sydney are sydney as the sydney rallway from Sydney A mining centre, it has accommodation for shipping the coal Iron and steel works were established here in 1911 and the city is the largest in the state after Sydney Pop (with suburbs) (1931) 103,700

Newcastle Dule of English title became Pelham-Clinton The first duke was William (1592-1676) His title became

extinct when his son died in 1691 From 1694 to 1711 his son in law, John Holles, was Duke of Newcastle

In 1715 Thomas Pelham, who had inherited the estates, was made Duke of Newcastle upon Tyne and in 1756 he was made Duke of Newcastle under Lyme He died in 1768 when the first dukedom became extinct, but the second passed to a nephew, Henry Flennes Clinton From him the present duke is descended Henry, the 5th duke (1811-64) was a secretary of state, 1832 54 and 1859 64

The duke's eldest son is called the larl of

He owns valuable estates in the Lincoln He owns city of Nottingham dity of Nottingham In 1931, following the death of Henry the 7th duke the family seat, Clumber, near Mansfield, was closed

Newcastle Market town of Co Limer Newcastle ick, Irish Free State It is 27 m south west of Limerick, on the GS Rlys It is an agricultural centre Newcastle Sesside resert of Co Down,

Newcastle Northern Ireland It is 36 m south of Belfast and is reached by the GN of Ireland and Belfast and Co Down

Rlys Pop 1800

Newcastle Town of Natal It is 160 m from Durban by rail way, and stands under the Drakenberg Mts The principal industry is the mining of coal Others are iron and steel works a creamery and trading in wool and grain Pop 4860

Newcastle-under-Lyme Borough and market town of Staffordshire It is 16 m from Stafford, by the L M S Rly on the little river Lyme The industries include the making of chemicals, pottery and clothing and around are coal mines. The district near was once the forest of Lyme Pop (1931) 23 246

Newcastle-upon-Tyne City, municipal county and port of Northum berland It is on the Tyne, 8 m from the sea and is an important colliery and shipbuilding centre Other industries are engineering. electrical works and chemical manufactures Originally a Roman station Newcastle has a castle built by Henry II, and its cathedral the seat of a bishop dates from the late 14th century There are colleges of medicine and science belonging to Durham University The borough sends four members to Parliament. It has a broadcasting station (288 5 M, 1 kW) Pop (1931) 283 145

Newchwang Scaport of Manchuria It refers both to the town and the port, although these are 40 m from each other. The town proper is on the Liao river, the port which is closed by ice for three months in the year, is one of the treaty ports, and from it large quantities of the soya bean are exported. Pop (1931) 106,040

Newdigate Sir Roger English anti he had an active political career but is chiefly remembered for his collection of antiquities Among other gifts to the University of Oxford ne founded the Newdigate prize of twenty one guineas for English verse which is open for competition annually to undergraduates of Oxford University It was first awarded in the year of his death which took place at Albury

on Nov 23, 1800
Nov 21, 1800
Nov 23, 1800 Newel Term in architecture the central support of a spiral staircase of wood or stone,

and from which the steps radiate In modern carpentry a newel is the more or less orna mented post at the head, foot or angles of a

New England Name given to six of the United States They are Maine, New Hampshire, Connecticut, Massachusetts, Rhode Island and Vermont. The first settlement was made here in 1620 and the colonies remained an English possession until 1783 They formed

Newent Market town of Gloucestershire Gloucester and 124 from London by the GW Rly Pop (1931) 2325

New Forest District of Hampshire south west of the county it covers about 150 sq m, and is the largest stretch of woodland in the country In it are several towns among them Lyndhurst, Brockenhurst, Ringwood and Minstead Beau lieu Abbey and Rufus Stone are objects of interest. The trees are chiefly oak and beech and the scenery is of great beauty. The forest has its own breed of ponies. It is usually believed that the forest was created by William the Conqueror

Newfoundland British dominion of N America It lies E of the Gulf of St. Lawrence, and has an area of 42,754 sq m, including Labrador  $(q \ v)$  It is the oldest British colony having been formally annexed by Sir Humphrey Gilbert in 1583 less than a century after the discovery

by John Cabot

It is the centre of the cod fishing industry, and has also important herring and other fisheries Next in importance comes the pulp and paper making industry. The country is rich in minerals, silver, nickel copper, asbestos, iron and coal St. John's is the capital Other towns are Harbour Grace, Bonavista, Placentia and Carbonear The government consists of an executive council under the Governor, legislative council of 24 members, and a house of assembly of 27 members In 1933, however, the financial situation was such as to warrant an appeal to the British government, and the constitution was temporarily suspended Mean-while full administrative powers were vested in while full administrative powers were vessels in the Governor, advised by a commission (Newfoundland 3 members UK 3 members) appointed in 1934 Pop 267,330

Newfoundland Dog of dog Im

ported into Britain in the 18th century, it has become a favourite companion and guard Broad backed, deep-chested, it has a massive head muscular hindquarters and thick, well-covered tall Dogs should average 27 in in height, bitches 25 in Essentially a large retriever, it is specially trained to resene drowning persons. The shaggy, oily coat is preferably black with one or two white patches the smaller black Labredor dog is a part. the smaller black Labrador dog is a part ancestor of the black retriever

Newgate London gaol, demolished in 1903 The name derives from the fact that the prison was originally in the gate house of the New Gate There was a prison on this spot for more than a thousand years The Central Criminal Court now occupies the site

New Glasgow It is on the East River, 105 m from Halifax and 3 m from its port, Pictou Harbour, by the ONR. There are steel works and coal mines. Pop 8974

Newgrange

Irish bronze age cometery in the Boyne Valley, Co Meath There are 17 grave-mounds, the largest, at Newgrange, being a truncated cone, 70 ft. high, and 315 ft across at the base lt contains a corbelled chamber 19½ ft high with three side-cells, displaying spiral and other designs, and approached by a 63 ft covered gallery

New Guinea Island of the Eastern Archipelago, the largest after Australia and Greenland 330,000 sq m in area, it is partly British and partly Dutch With a proposed large and the state of With a long coastline it is mountainous, thickly forested and largely unexplored, and has several navigable rivers. Rubber, valuable woods, pearls, copra and agricultural products are the chief exports, and cocoa and coffee are grown Gold, copper and phosphates have been found The natives are Papuan negroes with a mixture of Malay and Polynesian blood Some are given to cannibalism mated), 480,000 Pop (esti

New Hampshire State of United In the east of the country, it is one of the New England states and has a short constline on the Atlantic Ocean Its area is 9041 sq m Con States cord is the capital, but Manchester is the most populous town Mainly agricultural it has a considerable extent of forest land, and was one of the 13 original states of the Union The University of New Hampshire is at Durham Pop (1930) 465 293

New Hanover now Lavongai Island Archipelago, off the coast of New Guinea, area 460 sq m. Coffee, rubber, cotton and other tropical products are grown The island was taken by the British from the Germans in 1914 and is now governed by Austrolic and and is now governed by Australia under mandate from the League of Nations

Newhaven Urban district and scaport of Sussex It is 56 m from London by the S Rly It stands at the mouth of the Ouse, and is chiefly important since the most direct sea route from London to Paris is from Newhaven to Dieppe Pop (1931) 6790

New Haven City of Connecticut US, It is the seat of Yale University, which was transferred here in 1716, sixteen years after its foundation. It has manufactures of iron and steel goods, fire-arms, hardware, cutlery, etc., and is also the chief scaport of the state, owing to its position on New Haven Bay Pop (1930) 162,655

New Hebrides S Pacific, belonging to France They lie between the Santa Cruz Islands and the Lovalty Islands, and are about 30 in number, only 20 being inhabited The principal ones are Malekula, Sandwich, Erro manga and Espiritu Santo They trade in copra fruits, sandalwood and similar produce The total area is 5700 sq m Pop 55,000

New Ireland Island of the Bismarck Archipelago As Neumecklenburg, it was a German possession but in 1914 it was taken by the British, and is now governed by Australia under a mandate from the League of Nations The chief town is Kaxieng, and the chief industry the growing of cocoanute

New south of New York State and has a long coast-

Monuments line on the Atlantic Ocean, but its area is only stery in the Boyne other cities, Newark, Jersey City and Paterson, are larger Another populous city is Camden, while it contains Atlantic City and Hoboken on the Hudson The state is largely an agricultural area and has valuable fisheries It was one of the 13 original states of the Union Pop (1930) 4 041,334

Newlands Corner Beauty spot of Surrey It is on the downs, 3 m from Guildford, and from it wonderful views of the surrounding country can be obtained Its height is 570 ft.

Newlyn Seaside resort of Cornwall It is situated on Mounts Bay It has a good harbour and is a fishing port, but it is better known for its association with artists About 1880 a About 1880 a number of artists made their homes here and the group became known as the Newlyn School, the distinctive feature of which was the amount of work done in the open Stanhope Forbes was a member

Town of Lanarkshire Newmains 2 m from Wishaw, by the LMS Rly Here are ironworks Pop (1931) 2800

Newman John Henry English Cardinal theologian and writer Born Feb 21, 1801, he was educated at Trinity College, Oxford, where he formed a friendship with Pusay Hursell Fronds and other states. with Pusev, Hurrell Froude and others After ordination he turned from Evangelicism and became one of the leaders of the Oxford Tractarian Movement, or the High Church Movement The movement resulted in the conversion of many to Roman Catholicism, including Newman who resigned his living at Oxford, and became converted in 1845 From 1854-58 he was rector of the Catholic university in Dublin, and in 1859 founded a school in connection with Birmingham Oratory He was made a cardinal

Birmingham Oratory He was made a cardinal in 1879 and died at the Oratory, Aug 11, 1890 He wrote in verse and prose, and was famous as a lecturer and preacher Of his works, his Grammar of Assent, (1870) on the philosophy of faith, and his Apologna pro Vita Sua, a history of his own religious life, are the best known, and he will always be remembered as the author of the hymn "Lead, Kindly Light" His epic poem, The Dream of Geronius, has been set to music by Sir Edward Elgar

Newmarket Urban district and market town of Cambridgeshire and Suffolk It is 13 m from Cambridge and 70 m from London, and is the chief centre of horse racing in the country. The races are held on the heath where there are eight courses Eight meetings are held in the year The findustries are all connected with racing In the High Street are the headquarters of the Jockey Club and a house once owned by Charles II The Astley Institute and the King Edward VII Memorial Hall are notable Pop (1931) 9753

New Mexico States of the United In the souththe United west of the country, it is bounded on the south by Mexico and on the west by the ocean repre-It was taken by the British, and crued by Australia under a mandate League of Nations The chief town, and the chief industry the growing its

Jersey State of the United of California and Experimental States It lies to the covers 122,634 sq m Santa F6 is the capital, but Albuquerque is larger It is mainly agricultural, and maize, wheat, cotton, potatoes and fruit are grown Much of the soil is unfertile, but irrigation works have made it more productive. The state produces a good deal sented by the Pacific and the Gulf of California

of silver and copper, and there are large forest areas Pop (1930) 423,317

New Mills Market town and urban district of Derbyshire, on the LMS Rly It is 8 m from Stockport on the little Rivers Guyt and Kinder Cotton is manufactured and in the neighbourhood are coal mines Pop (1931) 8551

Newmilns Burgh of Ayrshire It is 7 m east of Kilmarnock, on the LMS Rly The River Irvine divides it from Greenholm, which is part of the burgh The chief industry is the manufacture of cotton goods Pop (1931) 3979

New Model Term used for the army raised in 1645 to fight for the cause of the Parliament It was raised and trained on a new plan and consisted of about 14,000 infantry and 7000 cavalry Sir Thomas Fairfax was appointed general and Cromwell led the cavalry It was responsible for the victory of Naseby and was in a sense the foundation of the standing army of to day

Newnes Sir George English publisher A son of Rev T M Nownes, a Congregational minister, he was born at Matlock, March 13 1851 He was educated at Wakefield and in London and entered business in Manchester In 1881 he started Tt Bits in that city, but three years later he moved it to London, and on it the firm of George Newnes, Ltd was built. Under his direction this had many successes, the most notable being The Strand Magazine In 1890 Newnes founded Strand Magazin: In 1890 Newnes founded The Westminster Gazette, which ceased publication in 1927 In 1919 the firm founded John o Lendon's Weelly From 1885 to 1895 he was Liberal MP for the Newmarket Division and from 1900 to 1910 for Swansea In 1895 he was made a baronet and he died June 9, 1910 His only son Frank, who succeeded him, was a short time a Liberal MP

Newnham College for women at Cam bridge It was opened in 1871 and consists of several halls. There is accommodation for about 200 students.

New Orleans Louisiana, port of USA, the commercial capital of the state situated on the Mississippi, rather more than 100 m from the mouth, and is the great cotton mart of the country, as well as a busy manu lacturing centre. The principal industry cotton country is a superior cotton. facturing centre The principal industry after the shipping, is sugar refining Cotton goods are manufactured, also cigars, footwear and furniture The Tulane University is here, also the Ursuline Academy and a Jesuit College There is also a university for negroes Pop (1930) 458 762

Pop (1930) 488 702
Settled by the French in 1718, New Orleans
was ceded to Spain in 1763 It fell to France
in 1800 and was purchased with Louisiana by
the U S A. in 1803 There was a battle here
between England and the U S A in the war of 1812

New Plymouth Town and scaport New Zealand It is 160 m by railway from Auckland It has a good harbour and shipping is the chief industry Pop (1932) 18,660

Newport Borough, market town and capital of the Isle of Wight It stands on the Medina, 10 m from Ryde, and is the centre of the railway system God's Providence House and the Castle Inn are of interest Owing to its nearness to Carisbrooke, Newport has associations with Charles I who

made here the Treaty of Newport with his chemies in Sept Dec. 1648 Pop (1931) 11,313

Newport Burgh of Fifeshire It stands on the Firth of Tay and is reached by the LNE Rly It is opposite Dundeo with which it is connected by a ferry Pop (1931) 3275

Newport County borough, scaport and Mewport market town of Monmouthshire It stands near the mouth of the Usk, 12 m from Cardiff and 133 from London, on the GW and LMS Rlys A transporter bridge crosses the Uak to the suburb of Maindee It has extensive docks and a large shipping trade Other industries are connected with the

manufacture of iron and steel There are also chemical and glass works Pop (1931) 89,198

Newport Scaport of Pembrokeshire It stands at the mouth of the River Neven, 6 m. from Fishguard It has a small harbour

Newport Urban district and market town of Shropshire It is 145 m from London and 17 from Shrowsbury, on a joint line of the GW and LMS Rlys. The town is an agricultural centre and hore is the Harper Adams Agricultural College Pop (1031) 5499

Newport Pagnell Urban district market town of Buckinghamshire It is on the Great Ouse, where it is joined by the Ousel, 50 m from London, by the L MS Rly The Grand Union Canal passes the town The town has an agricultural trade and motor car works Pop (1931) 3957

New Providence Chief island of the Bahamas It. is 19 m long and on it is Nassau the capital of the group It produces pineapples and in it are a number of lagoons. Pop (1931) 19 756 See BAHAMAS

Newquay Urban district and seaside resort of Cornwall It is 14 m north of Truco, and 281 m from London by the G W Rly There is a small harbour for the fishing Pop (1931) 5958

New River Artificial waterway It is Hertford and Middlesex and was made to supply London with water It is 27 m long and extends to New River Head at Clerkenwell It dates from 1609-13, having been made by Sir Hugh Myddelton and is now the property of the Metropolitan Water Board The river obtains its water from springs and from the Lea

New Ross Urban district market town and river port of Co Wexford, Irish Free State It stands on the Barrow, 100 m from Dublin, on the GS Rlv There is a harbour in the river and the industries include shipping and fishing The urban district includes Rosbercon in Co kenny Pop 5011

Newry Urban district and port of Co the River Newry, 35 m from Belfast and 63 from Dublin, on the G N (I) Riv The newer part is called Ballybot. Here flax is spun and there are some manufactures, but the chief industry is shipping Pop (1926) 11 963

New South Wales The oldest Australian state, situated on the east coast Discovered by Captain Cook in 1770, settlement commenced in 1788 Under an excellent climate agricultural and pastorul pursuits are established on a vest scale Mining is important. The

Newspaper Newspaper that gives the news of the day or the week. The chief newspapers are published daily in the morning, but there are published dan't he he her had, at the latter evening and weekly newspapers, the latter including the Sunday papers. In England the carliest newspapers were the news sheets of the 16th century and the pamphlets of the 17th In 1704 Daniel Defoe started The Review, and in 1785 John Walter founded The Times

In the 19th century an enormous number of papers were established all over the country. The outstanding events of the end of the 19th and the beginning of the 20th century were the arrival of a new kind of newspaper. marked by the foundation of The Daily Mail in 1896 and the speeding up of the means in 1890 and the specding up of the means of communication, which made it possible to distribute the London newspapers over a large part of the country early in the day. Some important dallies, however, still cater for the needs of the provinces, eq., The Yorkshire Post, which was founded in 1754 and The Manchester Guardian, which was founded in 1821. At the same fine engages improvements were made same time enormous improvements were made in printing machinery, and the advertising side of successful newspapers became of paramount importance London dailies of to-day, such as The Daily Mail, The Daily Express, The Daily Herald, have an enormous circulation. From March, 1930, to July, 1933, the circulation of the last named increased from about 300,000 to over 2 000 000 to over 2,000,000

to over 2,000,000

The production of newspapers is now a highly organised business. Guides are published giving the names and addresses of all the newspapers. The owners have their trade organisations, as have the journalists and the compositors who form their stails. The Newspaper Press Fund exists to help indigent and agod journalists. Nowspapers can be sent through the post for a penny, providing the

paper Press Fund exists to help indigent and agod journalists Nowspapers can be sent through the post for a penny, providing the weight does not exceed six ounces

Newstead Village of Nottinghamshire
Newstead Abbey, and has coal mines Here is Nowstead Abbey, originally an Augustinian house It passed in the 16th century to the family of Byron and was the residence of the family until 1818, when it was sold. Some parts of the old abbey remain In 1932 the house and park were presented by Sir Julius Cahn to the City of Nottingham

Newt Genus of the order Urodela or tailed amphibia, comprising 18 species of which three are natives of Great Britain The newts are characterised by having a compressed to the compressed to th tail and usually a dorsal fin most marked in the breeding season and amongst the males frequent moist places but live in the water when breeding, and like the salamanders, hibernate in winter The common newt or eft, Molge rulgars, is about 3 in in length

New Testament One of the two Bible The books therein record the life and teaching of Jesus Christ and the foundation of the Christian Church Written within the lst century, a D, some of them received early recognition and were read publicly in churches, sometimes associated with books like the

Bank of New South Wales, an important control of local institution, is largely interested in the development and progress of the country. There is a variety of coastal and mountain scenery, the Jenolan Caves are in the Blue Mountains. The harbour of Sydney, the capital, is famous. Area 310,372 sq. m. Pop 2,500,486 periodical publication. Periodical publication to the New Testament Canon. tament canon

Newton Sir Isaac English mathematician, astronomer and philoso-English mathematipher One of the leading ploneers of scientific discovery, he was born at Grantham, Deb 25, 1642, and educated at the grammar school there and at Trinity College, Cambridge In 1666, it is said, the fall of an apple suggested to him the law of gravitation (q v), but he did not conclude his calculations on this subject until 1684 He sat in Parliament twice, and was Master of the Mint from 1698 until his death Queen Anne knighted him in 1705 He was a student of alchemy, but is chiefly remembered for his study of gravitation, his work on the spectrum (q v) showing the composition of white light, his statement of the laws of dynamics (q v), the construction of telescopes, his work in geometry and the differential calculus, the first rules of which he laid down at the same time as Leibnitz His two chief works were the famous Principle and the Optics He died Mar 20, 1727

Newton 2nd Baron. British author Born Mar 19, 1857, Thomas Wodehouse Legh was educated at Eton and Christ Church, Oxford After six years in the diplomatic service he sat in the House of Commons for the Newton division of Lancashire Commons for the Newton division of Lancashire from 1886 until he succeeded to his father's barony in 1899 In 1915-16 he was Pavmaster General and from 1916-19 was Controller of Prisoners of War Newton wrote a Life of his old chief, Lord Lvons, 1913, and in 1920 appeared his Life of Lord Lansdowne Lady Newton wrote The House of Lyme, this being the Cheshire seat of the family

Newton Abbot Market town to William district Devonshire It is 20 m from Exeter and 194 from London, on the G W Rly, being situated at the head of the estuary of the River Tolgn Beer and pottery are made and there are railway repairing shops Pop (1931) 15,003

## Newton-in-Makerfield

Urban district of Lancashire It is 151 m east of Liverpool and is a junction on the L MS Rly, which has repairing shops here It is also a colliery centre The town is sometimes called Newton-le Willows Pop (1931) 20,150

Newton Stewart Burgh and mar-land It is 24 m E of Stranraer, by the L M S Rly, and is on the borders of Wigtown-shire and Kirkcudbrightshire The textile industry is carried on and the town which stands on the Cree, is also a tourist centre Pop (1931) 1914

Newtown Market town and urban district of Montgomeryshire It is 12½ m S of Welshpool and 186 from London by the GW Rlv. Woollen goods are manufactured here, notably flannel The urban district includes Lianliwchaiarn. Pop (1931)

Newtownards Market town of Co Down, Northern Ire-land It is 14 m from Bellast by rly, and is near Strangford Lough The industries centre round the linen manufacture Pop (1926) 9587.

Newtown Stewart Market town of Co Tyrone, Northern Ireland It is on the River Mourne, 24 m from Londonderry, on the G N (I) Rly

New Westminster City and port of British Columbia It is 12 m from Vancouver, near the mouth of the Fraser River It is reached by the ONR, which has a ferry service to Victoria The chief industries are shipping and salmon canning Pop 18 000 shipping and salmon canning

New Year's Day First day of the Calendar, introduced by Julius Cresar, made it Jan 1, in Anglo Saxon England it was Dec. 25, and in medieval Christendom Mar 25. This became Jan 1 in Scotland in 1600, and in England in 1752, when the new style was adopted

New York State of the United States it has a coastline on the Atlantic Ocean and includes the island of Manhattan, on which New York City stands, and Long Island It stretches from the sea to the border of Canada Area, 49,200 sq m Albany is the capital The largest cities after New York are Buffalo Rochester, SyrLouse, Yonkers and Albany The staple industry is agriculture, especially the growing of vegetables and the production of milk and butter for the metropolis Iron and gypsum are mined New York is one of the 13 original states of the Union Pop (1930) 12,588,000

New York City of the U.S.A. It is the financial and commercial capital of the country, and was originally founded by Dutch settlers in 1621 and called New Amsterdam. Captured by the English in 1664 it was renamed New York after the Duke of York (James II) It is situated at the mouth of the Hudson River, occupies an area of 305 sq m and has a population of 5,873,356 It has a magnificent harbour formed by the rivers Hudson and North, at the entrance to which stands the famous Statue of Liberty

New York centres on Manhattan Island, but greater New York includes Brooklyn, Bronx, Richmond and other boroughs Broadway Wall Street and Fifth Avenue are famous thoroughfares, Bowery is the Jewish and Harlom the negro quarter Ferries connect Manhattan Island with Brooklyn and Hoboken, and four great bridges cross the East River to Brooklyn The city has also elevated and underground railways Two railways the New York Central and the Pennsylvania, have their termini here The several airports include Curtis Field and Roosevelt Field, both include Curtis Field and Roosevett Field, Doun on Long Island. The buildings are famous, including the Empire State Building (1000 ft.), the Chrysler and Woolworth Buildings, vast hotels and apartment houses, the cathedral of John the Divine and many well known churches

A cosmopolitan city, New York has many daily newspapers, printed in many languages Its educational institutions include Columbia University and New York University, and there is a great public library The Metropolitan Art Museum is one of the greatest in the world There are over 130 hospitals Amusements and theatres centre on Broadway, apart from Coney Island (qv) Central Park has 840 acres, Bronx Park contains the great New York Zoo, and the beautiful driveway of Riverside Park borders part of the bank of the Hudson. Long Island (qv) has a garden suburb

New York City manufactures about a tenth of the nation's products, besides being a great importing and exporting centre and a great grain port Wall Street is the financial centre, and the city has many great private banks and a Federal Reserve Bank.

The city is governed by a mayor, five borough residents and 65 aldermen. The finance presidents and 65 aldermen department has a controller at its head thas two broadcasting stations, Brooklyn (54 52 M) and Richmond Hill (49 02 M, 0 6 kW) Pop 6,930,446

New Zealand Dominion of the British Empire It is 1200 m east of Australia, consisting of two large islands—North and South Islands—a small one—Stewart Island and several others Discovered by Tasman in 1642 the coastline was explored by Capital Cook in 1769 It was ceded in 1840 by the Maori chiefs to the British Crown becoming a colory It became the Dominion of New Zealand in 1907 It is governed by a Legislative Council under a Governor General appointed by the crown, and there is a House of Representatives with 80

The country has a healthy temperate climate, is mountainous, and has numerous lakes and rivers providing facilities for the generation of Numerous thermal springs and electricity

reysers exist and the country is famous for the variety and beauty of its scenery Having large areas of well watered, fertile land, New Zealand is well settled and possesses many excellent towns Agricultural and pastoral pursuits constitute the principal industries, but mining and working the The Maoris forests are important

specially provided for and are now increasing
The road and railway systems are extensive
and there are many ports, facilitating the use and there are many ports, facilitating the use of sea transport from almost all parts of the Dominion Wellington is the capital but Auckland also on North Island, is the largest city Area 103,722 sq m Pop (1932) (Maori, 69 803) 1,524,921

New Zealand Flax Perennial herb of the

lily order, indigenous to New Zealand and Norfolk Island (Phormium tenax) Its sword-shaped leaves, 4 8 ft long, 2-4 in broad, yield a strong fibre used for binder twine and rope

Next Friend In Great Britain a action in a court of law on behalf of a minor or a person of unsound mind. As neither of these classes can take legal action, a next friend is essential Such is usually a kinsman and must consent to his name being used

Michel. French soldier and Marshal Ney of France Born at Sarrelouis, the son of a cooper, Jan 10, 1769, he collisted in 1788, and distinguished himself at Jena, Eylau, and Friedland, and chiefly in the Russian campaign of 1812 As commander of the rearguard during the retreat from Moscow, he saved the remnants of the Grande Armée Louis XVIII made him peer of France, but, sent to oppose Napoleon on his return from Elba, he rejoined him, and fought bravely at Waterloo At the second restoration he was condemned for high treason and shot, Dec 7, 1815

Niagara houndary between Canada and

the USA It flows from Lake Eric to Lake Ontario, and is 36 m. long It is famous because about half of its 326 ft. of fall takes place at

Ningara Falls (q v )

Niagara Town and pleasure resort of Ontario It stands where the River Niagara falls into Lake Ontario At one time it was called Newark, and was the capital of Ontario, or Upper Canada Pop 1400 On the American side of the river is Fort

On the American side of the river is Fort Nigara, which was first built by the French in 1675 and was an important frontier port in the various wars down to the one of 1812-15

Niagara Falls Waterfall River. North America The river flows between the United States and Canada, and the Falls, perhaps the most celebrated in the world, are divided between the two countries The American falls are 167 ft. high and are separated by Goat Island from the Canadian or Horseshoe Falls, which are 158 ft high The latter are 3100 ft. across, but the American falls are only 1080 ft It is said that 100,000,000 cubic ft of water pass over the falls in an hour The fall is used to generate electric power, and there are treatics between the two countries to prevent the flow from being depleted The water is gradually wearing away the rock so that the falls are moving slowly backwards at the rate of 5 ft. a year Falls, which are 158 ft high The latter are 5 ft. a year

Niagara Falls City and river port of Ontario It stands on the Niagara River 82 m from Toronto, and just below the Falls It is served by the two main railway lines, CNR and CPR., and also by American lines An electric railway connects it with Toronto Pop 19,046

The American city of Niagara Falls is on the other side of the river, 18 m from Buffalo It is a river port and has many manufactures and an enormous plant for generating electric power Pop 75,500

Nibelungenlied German poem It was composed about 1200 and tells of the deeds of the hero, Siegfried, and his wife Sicglinde, other characters being Brunhilda and Gunther The Nibelungs are a people to which some of the characters in the poem belong

Nicaea City of Asia Minor It was in Bithynia and was one of the capitals of that kingdom It was founded in 316 nc by King Antigonus Here, in 325, a famous church council was held This confirm alle a c by King Antigonus Here, in 325, a famous church council was held This condemned the teaching of Arius and formulated the creed called the Nicene Arius and his opponent Athanasius both attended the council which also fixed the date of Easter

The Nicene Creed is used to day in the services of both the Roman and Anglican Churches and in the Orthodox Church of the East, though without the filloque clause. In the Church of England it is repeated during the communion service. Its famous filloque (also the son) clause, has been the cause of

much controversy

Nicaragua Republic of Central America
Nicaragua It lies south of Honduras, and stretches from the Pacific to the Caribbean Sta, area 51,660 sq m, pop (1930) 750 000 Managua is the capital, Corinto and San Juan del Sur the principal Western ports On the L are Bluefields and other ports, mainly

Nicarusa produces coffee, fruit, sugar and india-rubber Mahogany grows in the forests, and among other minerals gold and silver

are mined

Maritimes Founded over two thousand years ago, Nice was a busy scaport, frequently under different rule until 1860, since when it has been French There are fine promenades, notably the Promenade des Anglais Tho notably the Promenade des Anglas The commercial part lies to the east of the hill upon which the town is built. It is one of the most important towns on the French "Riviera," and is a fashionable winter resort for English people.

is a fashionable winter resort for English people. The main industries are perfumery factories, distilleries factories for silk, straw, leather goods and tobacco. Pop. (1931) 219,549

Nicholas Name of five popes. Nicholas I, pope from \$58-868, asserted the supremacy of the Roman curia, and restored her rights to Thietberga, the divorced wife of Lothaire, King of Lorraine. Nicholas II (1058 61) had Robert Guiscaud as vassal. Nicholas V, born at Pisa in 1398, distinguished himself at the Councils of Basle and Florence and was elected Pope in 1447. By persuading the anti-pope Felix to abdicate, he procured peace for the Church in 1449. He founded the Vatican Library, and sent scholars far and wide to buy and copy Latin and Greek. far and wide to buy and copy Latin and Greek manuscripts He tried to enlist the aid of Europe in the cause of the Greek Empire, but failed He died in 1455

Nicholas Patron saint of Russia and of children, seafarers and merchants Archbishop of Myra, Lycia, he attended the Council of Nicaea, 325 His remains were taken to Bari, Apulla, 1087 The pilgrimage then originated which popularised his memory verify 400 English churches bear his name The rides produced making of gifts on S. Nicholar The widespread making of gifts on S Nicholas Evo, afterwards transferred to Christmastide, accompanied early Dutch colonists to America where the name was corrupted to Santa Claus, He is commemorated on Dec 6

Nicholas I. Tsar of Russia and son of Paul I Born June 5. Born June 5, 1796, he succeeded his brother, Alexander I, as Emperor in 1825 He waged a successful war against the Persians in 1826 and increased his dominions He suppressed a rising of the Poles dominons He suppressed a rising of the Poles in 1830 and strove to extinguish Polish nationality In 1848, during the "Revolutionary Year," he assisted in quelling the Hungarian revolt against Austria In 1855, in the Crimean War, Turkey, supported by the British and French, defeated Russia Nicholas died during this campaign, Mar 2, 1855

Nicholas II. Tsar of Russia Born ceeded his father, Alexander III, in 1894 He tormed an alliance with France and an entente with Great Battoin II 1890 he covered the with Great Britain In 1899 he caused the first meeting of the International Peace Congress at the Hague At home he refused the gress at the Hague At home he refused the people a share in internal administration and opposed the growth of social democracy, but showed liberal leanings in establishing the Duma in 1905, at the end of the Russo-Japanese War of 1904-5 Early in the Great War he closed all liquor shops and influenced by the Employee The Propose and State of the State of Great War he closed an inquor snops and influenced by the Empress, who was dominated by Rasputin  $(q\,r)$ , showed a reactionary tendency The conduct of the war was mis managed, and in March, 1917, he was forced to abdicate and was imprisoned He was shot with his family at Ekaterinburg, July 16, 1918

Nicholson John British soldier Born in Ireland, Dec 11, 1821, he joined the East India Company in 1839, and Nice City of France Situated on the saw service in Afghanistan He and excellent work during the Sikh Rebellion of 1848 and was appointed Deputy-Commissioner of the Punjab saw service in Afghanistan He did excellent work during the Sikh Rebellion of 1848 and was

During the Indian Mutiny he was re sponsible for the holding of the Punjab, and was mortally wounded at the slege of Delhi in the same year, Sept. 23, 1857

N1ckel Motallic element having the symbol Ni, atomic weight 58 69, and melting point between 1450° and 1660°O Nickel is a white, lustrous metal having great hardness and tensile strength, but is malleable, ductile and magnetic It is little affected by air and unattacked by all alies, but is dis solved by mineral acids and after long contact by organic acids

Nickel forms alloys with steel, and zinc, all of which are of great economic importance, and it may be deposited electrolytically on metals, constituting nickel plating The chief nickel ores are pyrhotine or mag netic pyrites from Canada and garnierita from New Caledonia

Nicobar Group of Islands in the Bay of All Cobar Bongal They are 21 in number and cover 635 sq m The largest are Great Nicobar, Camorta and Car Nicobar There is a good harbour at Nankaurl and the chief product of the islands is coconuts The islands became British in 1869 and are governed with the Andaman group, 75 m to the N Pop 9300

N1comedia Ancient city of Asia Minor now represented by Ismid It was on the Sea of Marmora and was founded by a king of Bithynia Nicomedes I, who made it the capital of his country Dio cletian made it his capital, and here Hannibal committed suicide

Nicosia City and capital of Cyprus also called Lovkosia It is 25 m from the sea and still has traces of Yenetlan rule The walls built then still stand tts port is Larnaca. Nicosia was one of the centres of disturbance in the Cypriot rebellion of 1931 Pop (1931) 23 507

Nicotine Colourless volatile liquid alka loid obtained from the leaves of the tobacco plant, Nicotiana tabacum. It has a strong disagreeable odour, is soluble in water and alcohol, and darkens with age About 2 to 7 per cent is present in tobacco, but the amount veries according to the kind, climatic and soil conditions, and cultural methods Nicotine is highly poisonous, but being decomposed by burning is absent from tobacco smoke, whose harmful effects are to the presence of combine was the due to the presence of carbon monoxide, pyridine and other substances It is used also as an insecticide for plants in the form of a vaporising compound

N1dd River of Yorkshire (WR) Rising on Great Whernside, it flows in a northernly direction past Patcley Bridge to the Ouse north of York

Niemen River of Europe It rises in Russia and flows through Lithu It rises in ania to the Kurisches Haff, an opening of the Baltic Sea, which it enters by two mouths. Grodno and Kovno are on its banks and it is 550 m long. It is navigable to Grodno and cannis connect it with the Bober and the Vistula. The Lithuanians call it the Memel.

Nietzsche Friedrich Wilhelm German philosopher Born at Roccken, Oct 15, 1844 he studied at Bonn and Leipzig He is the author of several philosophical works beginning in 1878, which have as their main theme a new doctrine of morality Man should concentrate on the development of title energy and development. development of vital energy and develop into

n "superman," caring only for his own strength and advancement This seemingly Christian doctrine has been wrongly interpreted as meaning "Might is Right," and Nietzsche was long regarded by the world with horror More recently, however, he has been recognised as a constructive, even religious, thinker, and only in part destructive Nietzsches mind falled 11 years before his death He died Aug 25, 1900

N1euport Town of Belgium in the province of W Flanders It is situated on the River Yser, and was the port of Ypres In the Middle Ages it was strongly fortified, and was besieged by the French in 1488 89. It contains a plath resident 1488 89 It contains a cloth market, an old town hall and church, and a lighthouse dating from 1280 The locks of Palingbrug here drain the Low country, and in 1914 they were reversed so that water flooded the front on the Yser, thus impeding the German invasion Pop 3016

Nigella Name of the flower popularly called "Love in a Mist" (qv)

Niger River of Africa Parts of it, known traced, were associated with the Nile and the Congo Rising near Siorra Leone, it flows N E to Timbuetu then E and later, S E, entering Nigeria where important tributaries join It splits into a net work of channels emptying through numerous mouths, scattered over 200 m of coast into the Gulf of Guinea. It is an important means of communication and trans port in Nigeria It is 2600 m long

Nigeria British Crown W Africa, originating out of the trading depôts established as far back as the 17th century and later concerned with oil palm products The north is inhabited principally by Mohammedan tribes, and the concerned with oil palm products. The tribes are British Crown in the south pagans predominate The tribes are in the south pagans predominate The tribes are largely governed through their chiefs. The people are agriculturalists and pastoralists, their surplus produce forming considerable exports. Tin and coal mining are established A railway and motor roads have facilitated transport beyond the navigable reaches of the Nigor The extreme "damp heat of the climate renders it very un healthy for English people, Area, 372,674 sq m Pop (1931) 19,928,171

Nighthawk Insectivorous bird Closely related to the goatsuckers, it has a wide skull, soft plumage, and can see at night and fix noiselessly like the owl It wanders from the Arctic Ocean to the south of South Arctic Arctic Ocean to the south of South America, and lays its eggs on the ground or flat roofs

Night Heron Widespread genus of the heron tribe (hyelicorax), specially active in twilight and night hours. The common European species, 23 in long, with greenish-black plumage and pale straw underparts, bearing three long, thread like, white plumes behind the head, visits Britain in spring and autumn

Nightingale Bird of the thrush fam-ranging over Europe and N Africa Arriving in SE England about April 16, the males, 64 in long, with russet-brown plumare. of in long, with russet-brown plumage, greyish white beneath, and bright rufous tall utter their melodious song by night as well as day. The loosely built nest, placed in a thick hedge near the ground, shelters 45 olive brown eggs, after whose hatching the

cock's song ends, and presently the departure southward for the winter quarters begins

Nightingale Florence English nurse and hospital reformer Born May 12, 1820, after training as a nurse she went out during the Crimean War with a staff of 38 women to nurse the wounded In four months the death-rate in the hospitals was reduced from 42 per cent to 2 per cent. She made her hospitals efficient throughout, but still found time to go round the wards at night with a lamp comforting the sick She became known as "The Lady of the Lamp"

She was responsible for the founding of hospital schools of nursing In 1907 she was awarded the O M She died Aug 13, 1910

Nightjar Migratory swift-like bird (Caping to a numerous cosmopolitan subfamily It breeds in Britain and Europe, spending the northern winter at the Cape The male, 101 in long, has white-spotted rufous plumage They make a churring note when beating for insect food, sometimes round the unders of goats and cattle, hence called goatsuckers goatsuckers

Nightmare Oppressed state during sleep, accompanied by feelings of fear The word perpetuates the ancient belief that the state is caused by an evil It is sometimes precipitated by stomachic disorder, but Freud's theory of dreams ascribes it to the emergence of repressed wishes from the subconscious into the con-

scious mind

Nightshade Popular name of several species of British plants. The common nightshade, Solanum nagrum, bears black berries, occasionally red or yellow The bittorsweet or woody nightshade, S dulcamara bears scarlet berries The deadly nightshade, Atropa belladonna, highly poison-ous, bears black berries, cherry sized En chanter's nightshade, Circaea lidetiana, bears tiny truit.

Nihilism Term used in the 19th century for a movement in Russia whose adherents aimed at overturning the existing order. The Nihilists were responsible for the murder of the tsar, Alexander II, in 1881, and for other outrages

Nijmwegen Town of Holland, in the province of Gelderland It is a railway junction, and has manufactures of pottery, brewing, leather, etc. Pop. 84,034 The Treaty of Nijmweyen was signed on Aug. 11, 1678, and concluded the war between France and the Dutch, Spanish and Imperial coalition.

conlition

Nijni-Novgorod Government and city of central Russia. The province has an area of 19,797 sq m and a population of about 2 millions. The city, which is the capital of the province, lies at the confluence of the Volga and the Oka and is a great commercial centre. It has an annual fair which is held from July 25 to Sept 10. There is trade in metals, cereals and fish. In 1918 a university was opened here. It has two brordeasting stations (761.4 W. 18 kW., and 500 8 M.) Pop 135,274

Nike Greek goddess of victory, called by the Romans, Victoria Daughter of the giant Pallas she aided Zeus in his struggle with the Titans and was raised to olympus She was represented as a winged dgure, wreathed or palm-bearing, sometimes

Nimrod of the earth," and the founder of Babel (Gen v) A mighty hunter and warrior, his name is used as a symbol for any great hunter Nineven City of Assyria Situated on dgure, wreathed or palm-bearing, sometimes

guiding victors' steeds bore a shield or wand The Roman Victoria

Nile River of Africa Rising in the Victoria Nyanza, 3900 ft. above sea-level, it flows north-west, then north into the Sudan, as the White Nile, being joined by the Blue Nile at Khartum Between Khartum and Aswan there are six cataracts, but the river is saviently for the property of the Nile o navigable from above Khartum Below Cairo the river, which is 4000 m long, divides into a delta of 8500 sq m Alexandria is at one of the mouths

The Nile is the source of Egyptian prosperity. which depends entirely on the extent of the annual inundation Irrigation has been practised since 1842, when the Cairo barrage was built The Assuan Dam, completed in 1902 and heightened in 1912, conserves the river water for 200 miles There is another barrage of Assuan Dam, the Rue at Assiut, and the dam at Sennar on the Blue Nile has brought 300,000 acres under fresh

cultivation

Nile Battle of the Naval engagement It was fought Aug 1, 1798, in Aboukir Bay between the British and French fleets The French ships were anchored in the bar to support Navales were anchored in the hay, to support Napoleon, who had landed in Egypt They were found by Nelson, who attacked them, and won a consplouous victory The French lost 13 ships out of 17 engaged

Kind of antelope (Bosclaphus tragocamelus) It is found in the trict of India It is fairly large, high as 5 ft The horns of the nort and straight In colour the lowland district of India standing as high as 5 ft T male are short and straight

Male are short and straight in colour the animal is brown or brownish grev

Nilgiri Range of hills in India They

Mysore The highest peak, Dodabetta, is
nearly 9000 ft high, others are over 8000 ft

Places in the hills are visited by Europeans during the hot weather "blue mountains" The name means

Nilsson Christine Swedish singor Wederslöff, Sweden, Aug 20, 1843, of poor parents, she studied at the Theatre Lyrique in 1864 as Violetta She appeared in London as leading prima donna, the 1867 and want to America in 1870 After in 1867, and went to America in 1870 After her marriage in 1872, her appearances were rare, and ceased altogether after her second marriage in 1887 She died Nov 22, 1921

Nimbus Term in art for a form of halo surrounding the head of a saint or divine personage It is of ancient origin occurring in Greek and Buddhist art and adopted as a Christian symbol for saintliness in square, rectangular or circular form

Nîmes A city of S France, the capital Department, which has a population of 74,102 It was founded and built by the Romans, who built its great amphi-

built by the Romans, who built its great amphitheatre, a temple known as the Maison Cerrée and the famous a ueduct, the Port du Gard Nîmes lies at the foot of the Garrigue Hills and overlooks the plain of the Vistre, which is rich in vinevards. It is an important market for wine and brandy, and its chief industry is the manufacture of silk. It has a broadcasting station (237 2 M, 1 kW). Pop. (1931) 89,21.

Nimrod Son of Cush, "a mighty one of Babel (Gen x). A mighty hunter and warrior, his name is used as a symbol for any great hunter.

Mosul, 275 m N N W of Babylon, it occupied a walled enclosure of 1800 acres Metal using peoples displaced an earlier neolithic popula tion (Gen x) After conturies of political activity under Hammurabi and later mon archs it became the royal capital especially under Sennacherib and Ashurbanipal, whose cunelform library and massive monumental remains excavated by Sir H Layard (q r), are in the British Museum The Modes aided by Nabopolassar, King of Babylon, brought about its fall, 612 B c

Ningpo City and port of China It Ningpo stands on the River Yang 16 m from its mouth and 95 m from Hang chow There are some manufactures and a considerable trade Since 1842 Ningpo has been open to foreign trade Pop (1931) 218 774

Ninian Saint Apostle of Christianity and trained in Rome he was consecrated and trained in Rome he was consecrated bishop Founding at Whithorn, on Wigtown Bay, a church dedicated to S Martin of Tours, about 397, he evangelised the S Picts up to the Grampians He is commemorated on Sept 16 He died about 432

N10be In Greek mythology, wife of Am phion, King of Thebes Taunting Leto with having borne only two children, Apollo and Artemis, whereas she herself had twelve, her six sons fell to Apollo's darts, her daughters to those of Artemis Niobo became a stone shedding incessant tears, a fruitful theme in ancient art.

N10b1um A rare metallic element having the symbol Nb, atomic weight 93 1 and colour steel grey Discovered by Hatchett in 1801 in the mineral columbite from which the metal receives its alternative name of "columvium" It is associated also with tantalum, uranium and yttrium in other rare minerals

Nipissing Lake of Ontario Covering and contains many islands. It is connected Covering by the French River with Lake Huron The district around which is rich in minerals, is called the Nipissing district.

Variant of the native name for Nippon Japan (q v)

Nippur Ancient city of Sumeria. About to the S E of Bagdad it was a large and flourishing city and a centre of the worship of the Sumerian god Enlil It was later a city of Assyria and a residence of the kings of Parthia. The site was excavated between 1889 1900

N1sh Town of Yugoslavia A depart mental capital 130 m SE of Belgrade, on the Nisava tributary of the Morava it is an important railway junction second only in strategic and commercial eminence to Belgrade It was Constantine the Great's birthplace Captured by Bulgaria, 1916, it was recovered by Serbia, 1918 Pop 35,384

Nith River of Scotland It rises in Ayr shire and passes through Dumfrles shire to the Solway Firth, flowing through a beautiful valley called Nithsdale

The title of Earl of Nithsdale was held by the border family of Maxwell until 1715. William, the 5th earl, a Jacobite, was taken prisoner at the Battle of Preston and condemned to death. He seared heavened heav to death He escaped, however from the Tower of London owing to the skill and devotion of his wife He died March 20 1744, his title having been taken from him in 1715

Nıtre Common name for potassium nitrate or saltpetre which occurs in nature as a white incrustation or as crystals in the porous soll in many parts of the world Commercial nitro is propared chiefly from nitrate of soda or Chilean saltpetre which occurs over a wide area in S America as an impure saline incrustation or "caliche' Nitre is used in the preparation of gunpowder, for salting meat and in medicine Nitre cake is a trade term for the refuse nitre from the manufacture of nitric acid

Nitric Acid Compound of nitrogen with hydrogen and oxy of nitrogen gon commonly known as aqua fortis It is a colourless fuming liquid when pure, but is vellowish in its commercial form, and is very corrosive, acting upon organic matter and many metals but not upon gold or platinum. It is prepared by heating Chile saltpetre with sulphuric acid in retorts or by oxidation of atmospheric nitrogen by means of the electric are. It is used in the manufacture of dyestuffs explosives etc

Nitrification Process by which nitrates are formed in the soil and decaying organic matter by the action of bacteria and other micro organisms These nitrifying organisms convert the proteids in the soil into ammonium carbonate, then into nitrites and finally into nitrates these changes take place in the presence of lime or other basic substances moisture and freely circulating air Free atmospheric nitrogen in the soil also is fixed by bacteria present in the root tubercles of leguminous plants

Nitrobenzol Derivative of benzol or benzol or benzol is known also as essence of mirbane and is used largely as a substitute for the natural oil of almonds in the perfuming of soap It is employed also in the production of aniline and a number of im portant intermediate dyestuffs Nitrobenzol is prepared by treating benzene with a mixture of strong nitric and sulphuric acids and is a vellowish liquid having a strong odour of oil of bitter almonds

Nitrogen Gaseous element having the symbol N and atomic weight 14 008 It forms four fifths by volume of the atmosphere and occurs in nature in the form of nitrates also as a constituent of many animal and vegetable compounds. It is a colourless odourless, tasteless and inert gas which does not support combustion or animal life It is prepared commercially chiefly from ammonia or by distillation methods from the air, and from atmospheric nitrogen many compounds are now being made

Nitroglycerin Explosive substance prepared by treating elycerin with a mixture of cold concentrated nitric and sulphuric acids. It is a colourless or pale yellow oily liquid insoluble in water, and the colour substantial prepared in an energy ressel. Explosive substance while burning harmlessly in an open vessel, explodes violently by concussion or when quickly heated It is a valuable medicine in the treatment of angina pectoris Bright's disease and other diseases, for this purpose being often given in a fatty or oily solution and in tablet form when it is quite safe and stable — Its chief use, however is as an ingredient of cordite, dynamite and other high explosives

le Robert George French general Born at Tulle, Corrèze, Oct-After service in China and Algeria, Nıvelle 15, 1856 he was appointed General of Brigade in 1914, and fought successfully on the Aisne.

held Verdun against the German Crown Prince, and is famous for his unforgettable words, and is famous for his unforgettable words, "Is no passeront pas" As commander inchief in 1916 he failed and was succeeded by General Pétain (q r) He took over the French roops in N Africa in 1917 He was a member of the Surgeon War Council in 1922 and represent of the Supreme War Council in 1920, and represented Franco at the Tercentenary of the May-flower in America (1921) He died Oct 11, 1924

Nizam Title of the ruler of Hyderabad, word meaning "administration"

Noah Old Testament patriarch Son of Lamech, and father of Shem, Ham and Japheth, he built the Ark in which he, his family and some representative animals were sayed from the Flood After its sub sidence he became the ancestor of all mankind Another legend claims him as the first to cultivate the vine (Gen v -x) See Deluge

Nobel Alired Bernhard Swedish chemist was born at Stockholm, Oct 21, 1833 His father had manufactured nitroglycerin, and the son continued research in overlaping the son continued research in explosives, inventing also blasting jelly and smokeless powder He died Dec 10, 1896

NOBEL PRIZE On his death Nobel left a fortune of \$2,000,000, most of which he ordered to be used to found the fire Nobel prizes which

to be used to found the five Nobel prizes which are awarded annually for the most important discoveries and works for the benefit of humaulty in physics, chemistry, medicine, literature and the furtherance of peace in the world A Nobel Prize for literature was awarded to Rudyard Kipling in 1907, to W B Yeats in 1923, to Bernard Shaw in 1925, and to John Galsworthy in 1932 Other British prize-winners have been Sir J J Thomson (physics), Sir Ernest (now Lord) Rutherford (chemistry), Sir Borald Rose (medicine), and Sir Austen Sir Ronald Ross (medicine), and Sir Austen Chamberlain, Sir Norman Angell and Mr Arthur Henderson (peace)

Nobile Umberto Italian explorer He was born at Avellino in 1885 In 1926 together with Amundsen, he successfully carried out a polar expedition on the airship Norge In May 1928, he passed over the Pole in the dirigible Italia but crashed shortly after wards He was rescued a month later by a Swedish search party, but Amundsen and others lost their lives in the search

Nocturne Dreamy, musical composition, suggestive of night introduced by Field and perfected by Chopin, as planoforte literature Mozart's "Notturno" is a piece in three movements for horns and strings, and that of Mendelssolin (in A Mid-summer Aught's Dream), truly an Inter-nezzo

Node Astronomical term for the place where the orbit of the moon or a planet intersects the plane of the celliptic. The position where the planet passes from S to N of the ecliptic is the ascending node, and where it passes from N to S the descending node

Noel-Buxton Lord English politi-T Fowell Buxton Edward Noel Buxton was horn in 1869 and educated at Eton and Trinity College, Cambridge He devoted his time to public affairs and spent some years in Greece and the Balkans In 1905-06 he was a Liberal MP, as he was from 1910-18 In 1922, having joined the Labour Party, he was again sent to Palament for N Norfolk, him old continuous. his old constituency In 1924 he was Minister

March 1916, he successfully and gloriously of Agriculture and he returned to that office held Verdun against the German Crown Prince, in 1929 In 1930 he resigned his office and was made a peer

Nomad Member of a tribe or community Nomad who roam from place to place for their subsistence. They may be hunters, e.g., Australian blackfellows, S. African for their subsistence Australian blackfellows, gipsy quasi-industrial bushmen Nomadism especially characterists dwellers pastoral tent-dwellers on grasslands and steppes who follow their flocks and herds from summer-pastures to winter-pretures

Town in NW Alaska Nome Town in NW Alaska 16 is Norton Sound, 13 m W of Cape Norton On the discovery of gold in 1899 it became the centre of a famous mining area but its population, which in 1900 was 12,500, had decreased in 1930 to 1213

Nonconformity Dissent from the practices and doctrines of the Established Church In Great Britain the first secession was made in 1563 by the Puritans whose influence was increased by the Dissent Country of the coal Structure. by the misgovernment of the early Stuarts
After the restoration, however, they suffered
severe penalties under the Act of Uniformity
(1662), the Conventicle Act (1664), the Five
Mile Act (1665) and the Corporation Act (1661) Some disabilities thus inflicted were not removed till the Toleration Act was passed (1689) after the accession of William and Mary the movement, which included Baptists, Independents and Presbyterlans, received fresh strength about 1760 through the secession of the Methodists In 1892 the National Council of the Evangelical Free Churches was established to protect the rights of the Nonconformists Recently movements have taken place in the direction of closer unity between the various Free Churches

Nonjuror One who refuses to take an oath of allegiance It applies particularly to the bishops, clergymen and others who, for conscience sake, declined to take the oath to William and Mary in 1689 They were therefore deprived of their offices They included William Sancroft, Archbishop of Canterbury, Thomas Ken, Jeremy Collier, William Law, and about 400 others They formed a church of their own under their own bishops own bishops

Nonpareil Name of a size of printing type It is between minion and pearl and is sometimes called six point. Twelve lines go to the inch

Non sequitur In logic a conclusion that is incorrectly drawn, or does not follow from the premises They are very common in ordinary life A man argues "gales cause slates to become loose, a slate on my house has become loose, therefore it was caused by a gale." Logicians say this false assumption is due to an undistributed middle term, the middle term here being gales

Urban district of Surrey

Norbiton is 12 m from London, on the S Rly Pop (1931), 12,652

Norbury District in Croydon in the county of Surrey It is 7 m from the city, just outside the boundary of the county of London, and has a station the county on the S Rly

Norbury in Derbyshire, 7 m from Uttoxeter, has a church with memorials of the Fitz herbert family, and a station on the LMS Rly Pop (1931), 365

The Irish title of Earl of Norbury has been

borne since 1827 by the family of Toler The 1st earl, John Toler, was a successful Irish lawyer

Nordenskiöld Baron Nils Adolf Erik Swedish explorer Born at Helsingfors, Nov 18, 1832 he began his exploration and topographical research at Spitzbergen in 1864 in 1879 he discovered to the state of the st Spitzbergen in 1864 In 1879 he discovered and navigated the NE passage from the Atlantic to the Pacific along the N coast of Asia. As a reward he was made Baron of Sweden (1880) He later made two expeditions to Greenland Ho published several books giving accounts of his exploration and scientific work notably The Voyage of the Vega (1881) He died Aug 12, 1901

Nore River of the Irish Free State It rises in the northern part of Co Tipperary and flows S E through Leix Co and Co Kilkenny until it falls into the River Borrow just above New Ross It is 70 m in length the

Nore Sandbank at the N of the Thames considered to be the mouth of the Thames It has a lightship and is famous for the mutiny in the navy that took place here in 1797

Norfolk County of England It lies on the E coast, with an extensive coastline, and is the fourth largest of the counties Area 2119 sq m It is mainly agricultural while there is a flourishing fishing industry on the coast, centering in \armouth Much stock is raised and Norfolk red polls are a well known breed of cattle Norwich is the capital, and Yarmouth is another large town Norwich is the There are some popular watering places among them Cromer, Sheringham Hunstanton and Mundesley It was the centre of a vigorous woollen and silk trade from the 12th century when the Flomings established themselves in the county It sends five members to Parlia ment Pop (1931) 504,293

Norfolk City of Virginia, U.S.A It is situated on Elizabeth River and is an important port Its industries include coffee reasting cotton and silk goods, fertilisers, tobacco and cigars The shipping

trade is extensive Pop (1930), 129,710

Norfolk Island in the Pacific Ocean
It is 900 m from Sydney and was discovered in 1774 by Captain Cook It covers about 14 sq m and on it fruit is grown In 1856 the descendants of the muti neers of the Bounty were brought here from Pitcairn Island Since 1914 it has been part of the Commonwealth of Australia being governed by New South Wales It is the headquarters of

Norfolk Dukes of English title held by the family of Howard It is the senior dukedom in the peerage

In 1312 Thomas of Brotherton was granted After his death his the earldom of Noriolk daughter was created Duchess of Norfolk, and her grandson Thomas Mowbra, became the first Duke of Norfolk in 1397 He tried to lessen the power of Richard II and was banished from England and attainted nor was his son, Thomas (1325-1405) allowed to resume the title In 1425 John Mowbray (1415 61), brother of Thomas regained the duledom which became extinct at the death of his son in law Richard in 1483

It was then granted to John Howard (1430 85), a member of the powerful Howard family John lost the title because of his support of Richard III, but it was restored to his son, Thomas (1443-1524) after his defeat of the Scots at Flodden, 1513 Thomas Howard, 3rd duke (1473 1554), served Henry VIII in opposition to Woisev When Catherine Howard, his niece, was executed he was accused of treason and remained in prison during the reign of Edward VI, only regaining his dukedom in 1553 Thomas Howard, 4th duke (1536 72) intrigued with Spain so that he might marry Mary, Queen of Scots, but this was discovered and he was beheaded The dukedom was

and he was beneated The dukedom was restored in 1600, and bestowed on Thomas Howard (1622 77) 4th Earl of Arundel Later dukes were Charles Howard, 11th duke (1740 1815), an important Whig, Henry Charles Howard, 13th duke (1791 1856). a Roman Catholic, who, as a member of the House of Commons, did much to further Roman Catholic education Henry Fitzalan Howard, 14th duke (1847 1917), was Postmaster General, 1895 1900 The first Lord Mayor of Shoffield, he served in the South African War, and was a notable figure in public affairs

Norfolk Thomas Howard, 3rd Duke of English nobleman and soldier Born in 1473, he became Lord High Admiral in 1513, and in 1514 led the English Army against the Scots at Flodden He was created work of Surrey the same year He went to

He succeeded his father in 1624, and with this added prestige led the anti Wolsey party He favoured the marriage of Anne Boleyn to Henry VIII, and in spite of her execution, remained in favour He put down the rising known as the "Pilgrimage of Grace" in 1536 and led armies in France and Scotland He was put in prison for his share in his son's treason in 1547, and kept there till 1553, when his position was restored. He tried unsuccess fully to suppress the rebellion under Sir Thomas

Wyat and died on Aug 25, 1554

Norham Village of Northumberland It
is 8 m from Berwick-on Tweed,
and 340 m from London by the L N E Rly
It is visited for its castle, which, mentioned in
Marmon, was a border fortress belonging to
the Bishop of Durham It is the centre of a
small district scalled Northumber which was small district called Norhamshire, which was part of the county of Durham until 1844

Norman Inhabitant of Normandy The Normans were really Northmen who settled in the northern part of France and also in Italy and Sicily where they have left extensive traces of their presence and where they developed a somewhat remarkable civilisation In 1066 there was a Norman invasion of England in which William, Duke of Normandy, known as "William the Conqueror," overcame the Saxons and ruled queror," England

The form of architecture called Norman preceded the Gothic It is distinguished by the rounded arch and to it belong some of the oldest buildings in England

Norman Montagu Collet British finan cler He was born in 1871 and educated at Eton and Kings College, Cam bridge He served with distinction in the Boer War and was awarded the DSO He became governor of the Bank of England in 1920, and a member of the Privy Council in 1923 He has since taken an active part in public affairs, notably during the financial crisis of 1931

Normanby Village of Yorkshire (N.R.) It is 5 m W of Pickering From here the family of Phipps takes the title of marquess, given to the 2nd Earl of Mulgrave in 1838 The family seat is Mulgrave Castle, near Whitby, where the marquess conducts a private school

Normandy a province In the north of the country, Normands is now divided into the departments of Scine Inférieure, Euro Orne, Calvados, and Manche It was taken by Rollo and his Norsemen in 912, and was an English possession from 1066, but was lost finally in 1449 The chief towns are Rouen, the capital Dieppe, Havre Caen, Bayeux, Cherbourg and Mont-St-Michel

The ground is fertile, producing corn, hemp, flax and fruit (chiefly cider-apples) There is iron near Caen It has large fisheries, and sheep and dairy-farming in the interior

Normanton Urban district and market town of Yorkshire (WR) It is 10 m from Leeds on the River Calder and is a junction for the LMS and LNE Rlys The industries include coal mines and chemical works. works Pop (1931) 15,684

Norn In northern mythology, a divinity of fate. Three are usually reckoned, two of them kindly, one malignant, they controlled human destiny in the manner of the classical Fates  $(q \ v)$  In some forms of the myth they are called Past, Present and Future, dwelling beside the well of fate by the worldash, Yggdrasil

Norse Adjective preferably denoting the old language of Norway Pertaining to the N Germanic group of Indo-European languages, it was carried in the Viking age to Iceland where, down to the 15th century, it became enshrined in imperishable sagas. It also reached Greenland, the islands of N Britain and remote parts of Scotland, especially Calthness, surviving in Orkney and Shetland down to the 18th century The word also denotes synonymously all the early Scan dinavlan civilisation

Northallerton Urban district and market town of York on the shire (NR) It is 30 m from York on the LNE Rly The chief town of the north riding Its industries include browing and maiting and some manufactures The Battle of the Standard (q v) was fought near here in 1138 Pop (1931) 4787

Northam Market town and urban district of Devonshire It stands on the Torridge about a mile from Bideford, and includes the watering place, Westward Ho'Thore are golf links on Northam Barrows Pop (1931), 5561

Another Northam is a district in the city of Southampton, on the S Rly Pop (1931)

11,591

North America Term applied to the whole of the northcrn portion of the American continent, including the United States, Canada, Alaska, New-foundland and Mexico It has an area of some 8,200,000 sq m, the length being approximately 5600 and the breadth varying from 200 to 3000 m Pop 138,000,000 (approx)

The chief physical features are the Laurentian

The chief physical features are the Daurennan Plateau in the north of Canada, the hilly Appalachian area from Newfoundland to Vallama the western highland which include the Rocky Mis, and the vast central plains or prairies. Important rivers are the Mississippi, St Lawrence, Mackenzie, Columbia, Colorado, Hudson, and others

It is an area of great fertility and consider able mineral wealth Gold is plentiful in many districts, oil, coal, iron and most of the essential minerals are also found here Fur-bearing animals are a source of consider able wealth, and large stretches of country have such rich soil that agriculture is a profit able industry

The original inhabitants were the American-Indians of different tribes Tacse have tended Indians of different tribes These flavor tentar to decrease until quite recent vears when some increase in the Indian population has been observed. The history of the continent starts with its discovery by Christopher Columbus in 1492, though earlier voyagers had undoubtedly sighted parts of it, and there had been been expected there in Crossland. European settlers in Greenland

Northampton County town of Northampton ampton, England, 66 m NW of London The town is situated on the River Nene Famous for the manufacture of shoes it has also tanning and textile works, breweries, iron foundries, brick works and an extensive cattle market Both early British and Roman remains are found In the 6th century it was the chief settlement of the Angles, and in the time of Edward the Elder was occupied by the Danes Its charter was granted in 1460 by the Danes Its charter was granted in 1460. S Sepulchre's, one of England's four round churches, was built by the Templars, and S Giles' and S Peter's are both ancient. It played an important part in the Wars of the Roses and in the Civil War

Northampton Marquess of A title borne by the Pari family, the most important of whom was William, who was born in 1513, and was the brother of Catherine Parr, 6th wife of Henry VIII He was created Earl of Essex in 1543, and Marquess of Northampton four years later During the reign of Edward VI, he supported the cause of Somerset and Northum berland, and after Edward's death favoured supported the cause of somerset and Northum berland, and after Edward's death favoured the accession of Lady Jane Grey For this he was sentenced to death, but the sentence was reduced to forfeiture of his title and estates On the accession of Elizabeth, how-ever, he returned to favour, and was again created marquess in 1559 He died on Oct. 28 1571

28, 1571
The second Marquess was Spencer Joshua Alwyne Compton, who received the title in 1812 He was a distinguished politician and man of letters, who assisted Wilherforce in the cause of negro emancipation and held the office of President of the British Association The present Marquis (William Bingham Compton) succeeded in 1913 His heir, Edward Robert Compton, was born in 1891

Northamptonshire County of England In Northampton is the county town other places of importance are Peterborough, Kettering, Wellingborough and Higham Ferrers The chief rivers are the Welland, Nen and Great Ouse Places of interest are Burghley Great Ouse Places of interest are Burghlev House and Althorp, and there are remains of the forests of Whittlebury and Rockingham Northamptonshire is a hunting county and a first-class county in cricket It is in the a first-class county in cricket 1t is in the diocese of Peterborough, and has two county councils, the county proper and the soke of Peterborough Pop (1931) 307,428

The Northamptonshire Regiment was formerly the 48th and 58th of the line The former was raised in 1741 and the latter in 1755

The denot is at Nerthampton.

North Bay Town and pleasure resort | North-East Passage Route through of the province, it is on Lake Niplssing, 300 m from Montreal and 190 from Toronto, by the C.N R. and C.P. R., and also by the Temis kaming and Northern Ontario Rly, and is the centre of a mining district. There are some manufactures. Pop (1931) 15,528

North Berwick Burgh and seaside East Lothian It is 23 m E of Edinburgh by the LNE RI, and is situated on the Firth of Forth It is a famous golfing centre, and here is Tantallon Castle Pop (1931), 3173

Northbrook Earl of I British states 1901 tildl'OOK man Born Jan 22, 1826, Thomas George Baring was the son of Francis Thornbill Baring, First Lord North brook. The father had held several successive proof. Into lather had held several successive posts in Whig ministries and the son was in turn Lord of the Admiralty, Under Secretary for India, Under-Secretary for War, Governor General of India (1872 1876), and First Lord of the Admiralty After his term of office as Covernor General in India he was created an earl (1876) He died Nov 15, 1904, being succeeded by his son, Francis George

Viscount. English jour Northcliffe Alfred Charles nalist William Harmsworth was born in Dublin July 15, 1865, the eldest son of Alfred Harms yorth, a barrister In 1880 he entered a news paper office, and in 1882 he was made assistant editor of a journal called *Youth* In 1885 he went to Coventry and here he worked on papers owned by Messrs Iliffe & Sons returning later to London to serve in the office of Sir Goorge Newnes

In 1888 Harmsworth founded a weekly paper called Answers, which soon proved a success called Ansucrs, which soon proved a success
other papers were started and the foundation
was laid of the great publishing business now
known as 'the Amalgamated Press After
some years of success in launching weekly
publications, he and his brother Harold
bought, in 1894, The Evening News, a London
daily paper In 1896 they founded The Daily
Mail a halfpenny dally paper, the first issue
appearing on May 4
her the next 25 years Harmaworth was the

For the next 25 years Harmsworth was the most influential newspaper proprietor in the country Continually acquiring new interests be founded The Daily Murror in 1903 and in 1905 bought The Observer In 1908 he became 1995 bought The Observer In 1998 he became chief proprietor of The Times In 1911 he sold The Observer and later The Daily Mirror, but he kept control of The Daily Mail and

The Times to the end
In 1895 Harmsworth stood unsuccessfully
for Parliament for Portsmouth In 1904 he In 1904 he was created a baronet and in 1905 Baron North cliffe He took a great interest in motoring, and by the prizes he offered did a great deal to encourage aviation. He also financed an expedition to the North Pole. In 1914, on the outbreak of the Great War, he devoted all his energies to the furtherance of the cause of the Allies, and was continually urging more rigorous measures In 1917 he went to the United States as head of the British mission and on his return was made a viscount In 1918, having declined the office of Minister for Air, he became director of propaganda in enemy countries. He died after a long illness on Aug 14, 1922 His widow, who married Sir l obert Hudson in 1923 was Mary Elizabeth, daughter of Robert Milner He left no children, and his title died with him

the Arctic Ocean from Europe to the Pacific Ocean In the 18th century and later several navigators tried to find it, but not one of them succeeded until 1878 79 In those years A. E Nordenskiöld made the full voyage

Northern Ireland Part of the King dom of Great Britain and Northern Ireland. Under the Government of Ireland Act, 1920 Northern Ireland consists of the six counties of Antrim, Armagh, Down, Fermanagh, London derry and Tyrone, with the two cities of Londonderry and Belfast, the capital Its constitution is federal in type, certain powers being reserved to the Imperial Parliament The Northern Irish Parliament has a House of commons of 52 elected members and a Senate of 26 senators The executive power is vested in the Governor now (1936) the Duke of in the Governor now (1938) the Duke of Abercorn, who was elected in 1934 for a further term of six years. The principal industries are linen manufacture, shipbuilding (Belfast being the chief industrial centre), and agriculture Roughly a third of Northern Irelands total acreage (3 351,444) is under cultivation, the chief crops being onts, potatoes, flax and hay of the total population (11 millions) there is a Catholic and Nationalist minority of 420 000

Northern Territory Part of the wealth of Australia, on the N coast between Queensland and W Australia and extending to S Australia lying almost entirely within the tropics A central plateau, with grassy areas, slopes gradually to the low coastline larther south the Territory is sandy and dry Somo cattle are mised but little development Some cattle are raised but little development has taken place Gold was discovered at Tennant's Creek in 1933 The capital is Port Darwin, the area 523,620 sq m Pop—native, 21 242 others, 4 193

Northern Union League or associ to control a game of football that has developed from the Rugby game The clubs belonging to it are composed of professionals and are chiefly in Lancashire and Yorkshire The union came into existence in 1895 when the Rugby Union refused to allow professionalism
The number of players is 13 a side, and there
is no line out Six players form the scrummage The clubs form leagues to play matches for a championship against one another

Northfleet Urban district of Kent It is 221 m from London, and stands on the Thames just above Gravesend

Here are paper mills, and also chemical and cement works Pop (1931) 16 429

North Foreland on the E const of Kent about 11 m N of Broadstairs It forms the N E corner of the Isle of Thanet, and has a light themse where where the results of the second of the results lighthouse whose light is visible 20 m away

North Island Northern of the two chief islands of New Zealand It covers 44 281 sq m, and the chief cities therein are Auckland and Weilington It is divided into four provincial districts—Auckland Hawkes Bay, Weilington and Faranaki It is famous for its sheep, and its warm climate is very suitable for the growing of fruit Pop (1932) 984,277 Scenew Zealand

North Pole Northern terminus of the axis of the earth It is at a latitude 90° N and is in the Arctic regions

Attempts to reach the pole failed until April 6, 1909, when Robert E Peary (q v) reached it. Since then it has been reached by other explorers, while some of them have flown over it. See ARCTIC EXPLORATION

North Sea Sea bounded by Norway and on the W, Germany and the Netherlands on the S and the Arctic Ocean on the N It is part of the continental shelf on which the British Isles stand It is shallow, averaging about 60 tathoms, and slopes from N to S It is a rich fishing ground The most productive fisheries are the Dogger Bank in winter and the Continental coasts in summer

North Sydney Scaport of Nova scotia It is on an arm of Sydney Harbour, 18 m from Sydney, by the CN Rly Around are coal mines, and from here coal is exported Fishing and tanning are other industries, and it is a centre for the trade with Newfoundland Pop 6585

Northumberland Most northerly Northumberland Most northerly land Separated from Scotland by the Cheviot Hills and the Tweed, it has a coastline on the North Sea Newcastle upon-Tyne is the county town, other towns being Alnwick, Berwick-on-Tweed, Wallsend and Hexham The county is rich in coal and contains large industrial areas contering largely on the Tyne, where are ironworks, blast-furnaces, shipbuilding yards and factories producing glass, electrical goods, potters and machinery Barley and onts are the chief agricultural crops, but sheep-rearing is the most important form of agriculture Ton members are returned to Parliament The county has considerable Roman remains including Hadrian's Wall The abbeys of Hexham and Lindisfarne are famous, as are the castles of Alnwick and Warkworth

Northumberland Duke of English title held by the family of Percy In 1377 Henry Percy was made Earl of Northumberland and the title was held by his descendants until 1670 when it became extinct Concurrently from 1551 to 1553 Lehr Dudley was Duley from when it became extinct Concurrently from 1551 to 1553 John Dudley was Duke of Nor thumberland In 1683 George, a natural son of Charles II, was made Duke of Northumber land, but he died without heirs in 1716

In 1749 Algernon Seymour, 7th Duke of Somerset, who had married the heires of the Percies, was made the Earl of Northumber land His son in-law, Sir Hugh Smithson, succeeded, by special arrangement to his titles, taking the name Percy In 1766 he was made a duke and the present duke is his descendant. descendant

Alan Ian, the 8th duke, who died in 1930 was one of the proprietors of *The Morning Post* The duke's chief seat is Alawick Castle and his estates are in Northumberland His eldest son is called Earl Percy

Northumbria Name of one of the kingdoms of England in Anglo Savon times It consisted of two smaller kingdoms, Bernicia and Deira, and came into existence about 600 For a time it was the strongest of the English kingdoms, but in less than a century it was subordinate to Mercia or Wessex Its kings, however, remained until about 900 Later it was one of the great carldoms and was ruled for a time by Tostig Northumbria Name of one of the kingdoms of England in Anglo Saxon times It consisted of two smaller kingdoms, Bernicia and Deira, and came into existence about 600 For a time it was the strongest of the English kingdoms, but in less than a century it was subordinate to Mercia or Wessex Its Lings, however, of the great earldoms and was ruled for a time by Tostig

North Walsham Market town and urban district of

Norfolk. It is 14 m from Norwich, and 131 from London, by the L N E Rly and a joint line The Paston Grammar School is associated with Nelson Pop (1931) 4137

North - West Frontier
Province Most northerly district of British
India It is situated roughly north of Baluchistan, between the Indus and Afghanistan capital is Peshawar, which, except for Dera Ismail Khan, is the only town of note in a province, which is mainly agricultural The inhabitants are mostly Pathans, Mohammedans in roligion, and speaking the Pushtu language The province was created on Oct 25, 1901 Its area is 13 419 sq m and its population (1931) 2,425,076

North-West Passage

Route from the Atlantic through the Arctic round the north coast of America to the Pacific Its discovery was the object of many British explorers. In 1714 Parliament offered a roward explorers in 1714 Parnament onered a roward of £20,000 to the first discoverer of the Passage It was in the attempt to find this route that Sir Benjamin Franklin and his associates perished in 1845 The Cabots, Gilbert, Davis, Baffin and others attempted the passage, it was first navigated in 1903 05 by Roald Amundsen

North-West Territories

Administrative district of Canada Originally Rupert's Land and the North West Territory, it was purchased from the Hudson's Bay Co in 1867 by the Dominion Government Diminished in size by the formation of Manitoba (1870) and Societate the company of Manitoba (1870) and Saskatchewan and Alberta (1905), it now consists of the mainland west of Hudson Bay, east of the Rockies and north of latitude 60°N, including the northern archipelago. Its area is 1,258,217 sq m, and it is divided into the districts of Mackenzie, Keewatin and Franklin. The population consists mostly of Indians and Eskimos. Fur is the chief pro-

Northwich Market town and urban district of Cheshire It is 18 m from Chester on the LMS and Cheshire Rlys Here the River Dane falls into the Weaver, which is navigable The chief industry is salt mining, and there are chemical works The town has some picturesque, half-timbered houses Pop (1931) 18,728

Northwood Part of the urban district of Rulslip Northwood Greatly developed in the 20th century, it has become a residential suburb of London, from which it is 14 m distant by the LNE and Metropolitan Rlys Here is the Mount Vernon Consumptive Hospital Pop (1931) 16,038

Norton St. Philip Village of Somer-Here is the George, which dates from the 15th century, and is said to be the oldest inn in England Here Monmouth spent the night before

portion marked by valleys There are numer ous lakes Owing to the rocky and mountainous nature of the terrain, the arable land is only a small proportion of the area, limited to the vicinity of the lakes and flords, and the valleys

the valleys
The capital is Oslo (pop, 1930, 253,124) on the Oslo ford Important towns include Bergen (98,303), Stavanger (46,780), and Trendhjem (54,458) There are important fisheries Natural water power has been extensively exploited, coal deposits being scanty There are immense supplies of timber
The present kingdom dates from 1905 when the union with Sweden (existing from 1814) was ended The ruler is Haalon VII, formerly Prince Charles of Denmark born 1872 In 1896 he married Princess Maud of England. The legislative assembly or Storting has two branches, the Odelsting and the ing has two branches, the Odelsting and the Lagting

Norwich City and county borough of Norfolk The county town, it is on the River Wensum, close to its junction with the Yare It is 115 m from London on the LNE Riy Formerly a centre for the manufacture of the county town, it with the Yare It is 116 m from London on the L N E Rly Formerly a centre for the manufacture of worsteds, it still produces crape and other textiles Boot and shoe making is a leading industry, and there are engineering works, foundries, brewerles and tanneries Starch, mustard, comflour, etc., are manufactured on a large scale The cathedral (1006 1500) has two Norman chapels S Peter Manoroft Church and the Guildhall are 15th century buildings, and S Andrews Hall, used for music festivals, dates from the same poriod The castle with a Norman keep, is now a The castle with a Norman keep, is now a museum Pop (1931), 126,207

Norwood District of London It is on the S side of the river, mainly in the borough of Lambeth, and is divided into Upper, West and South Norwood, with stations on the S Rly The buildings include the Royal Normal College of Musle for the Blind There is a large cemetery at West Norwood and on Beulah Hill there was a spa. There are several other places of this name in England One is Norwood Green near Southall in Middlesex and another is a village in Derbyshire famous for its church.

in Derbyshire famous for its church.

Norwood Cyril English educationist
The son of a clergyman, he
was born Sept 15, 1875, and was educated
at the Merchant Taylors' School and S
John's College, Oxford After a brilliant
career he passed first into the civil service,
and for two years was a clerk at the Admiralty
In 1901 he left the Sorvice and became a
master at Leeds Grammar School, in 1906 he
was elected head master of Bristol Grammar
School, and in 1916 he went to Marlborough
where he introduced some rather drustic
reforms He was headmaster of Harrow from
1926 to 1934 Dr Norwood has written on
educational subjects educational subjects

Nose Organ concerned with smell and respiration. In man it forms above the mouth a facial prominence whose shape varies racially and individually Two bony cavities divided by a partition or septum partly of bone, partly of cartilage, are lined with specially modified mucous membrane constituting the essential organ of smell This communicates with the olfactory nerves passing through perforations in the roof bones. For respiration, openings outwards

NOSE-BLEEDING Slight bleedings from the nose in young persons need not cause alarm. If the flow of blood persists, place the patient in an upright position with his mouth open, his arms above his head and an ice bag or cold compress at the back of his neck and on the bridge of his neck. and on the bridge of his nose

Notary Official usually a solicitor or certifies documents especially bills of exchange To become a notary a man must pass an examination, and in England be admitted by the representatives of the Arch bishop of Canterbury, a reminder of the time when the notary was an ecclesiastical official There is a Society of Notaries in London

Notation Written symbolisation of musical sounds Notation musical sounds Notation
may be phonetic or diastematic The Ancient
Greek system was phonetic also the modern
Arabian system the old tablatures certain
'freak' systems and the Paris Galin Chevé
and Tonic Sol fa methods of to day Sound,
scale relationship and key-distance are their
bases The diastematic system of "Notation
by Intervals" comprised the "neumes,
figures" and notes' of ecolesiastical
practice from which our present notation has
evolved The pitch of sounds is now expressed
by the positions of notes and the presence of

by the positions of notes and the presence of clefs on sets of five lines called "staves" Their relative duration is defined by variously shaped notes Key and rhythm are shown by signatures The rhythmic scheme is shown by barlines which also affect the accentuation of the notes

Notification Act of giving notice. Great Britain in connection with infectious diseases as in tuberculosis Certain diseases are notifiable, that is, the doctor attending the case must notify it to the medical officer of health for the district. The ministry of health can dealers any disease portfishle and a local can declare any disease notifiable, and a local authority has the same authority within its area Since 1001 cortain diseases that arise from occupation, such as lead poisoning and anthrax, have been notifiable

Notre Dame Fronch term meaning churches are dedicated to the Virgin and called by this name The most famous is the catho dral in Parls Begun in 1163 and finished 200 years later, it is a magnificent Gothic building standing on an island in the river Its stained claus is not a furnished to the control of t glass is one of many notable features

Is the Sainte Chapelle

Noire Dame de Paris is a novel by the
19th-century French author Victor Hugo
and deals historically with Notre Dame
Cathedral It has been translated into English under the title of The Hunchback of Noire

Nottingham of Nottinghamshire The county town, it stands on the River Trent, 123‡ m from London on the LMS and LNE Rives S Mary s Church (Perpendicular, 15th century), S Nicholas and S Peter's are ancient buildings There is a Roman Catholic cathedral The castle is a museum and picture gallery A new university building was opened in 1928 and the new Civic Hall in 1929 The city sends four members to Parliament The clay sends four members to Parliament The clay industry is lace members there others leading industry is lace manufacture others deal with clothing and hosiery, there are

two noted association football clubs—Notts
County and Notts Forest. Pop (1931) 268,801
Nottingham Earl of English title
held by the families of
Mowbray, Howard and Finch successively
The most important holders were—

(1) Charles Howard (Lord Howard of Effingham), English admiral and general He was born in 1536 and in 1588 had charge of the preparations against the Spanish Armada as Lord High Admiral of England. He served as one of the commissioners for the trial of Mary, one of the commissioners for the trial of Mary, Queen of Scots (1586), and was ambassador to Spain in 1605 He was created Earl of Nottingham in 1599, and died in 1624

(2) Daulel Finch, English politician. He was born in 1647 and entered Parliament in 1679 He became leader of the Jacobite Tories, and was appointed Segretary of State under

and was appointed Secretary of State under William and Mary, but was forced to retire after the naval failures of 1692-3 He was in He was in office again from 1702-4, and died in 1730

County of Eng-Nottinghamshire land In the north midlands, it is wholly inland and covers north midlands, it is wholly inland and covers 844 sq m Nottingham is the county town, other boroughs are Newark, Mansfield, Worksop, and E Retford Southwell is the seat of the bishop whose see embraces the county. The chief rivers are the Trent and the Idle. The county is mainly agricultural in the E and industrial in the W, where are extensive coal mines. A feature of the county is the woodland district called the Dukeries in which are Clumber Thoreshy and Rufford. Another fine Clumber, Thoresby and Rufford Another fine house is Welbeck Abbev Newstead is a place of interest. The county has a first-class cricket of interest The county has a may chasse the seam, which won the county championship in 1929 It is also a hunting area. It sends 5 members to Parliament Pop (1931) 712,681

Novarro Ramon Film actor Born at Durango, Mexico, in 1900, he received a thorough education in violin-playing, dancing and opera-singing, and is noted for his handsome face and pleasant voice He acted in Scaramouche, Ben Hur, The Student Prince, He visited Britain in 1935-36

Nova Scotia Maritime province of Canada It has an area of 21,428 sq m and a pop (1931) 512,027 The island of Cape Breton at the N E end of the peninsula from which it is parted by the Gut of Canso, has an area of 3120 sq m The peninsula is joined to the port of New Bruns wick by the Isthmus of Chigneeto, 11-12 m wide The capital is Halifax Sydney, on Cape Breton, ranks next in importance. There are many lakes in both portions The island has extensive coal deposits, and on the peninsula many lakes in both portions The island has extensive coal deposits, and on the peninsula are found also copper, iron and gold There are important fisheries. First settled by the French, Nova Scotia passed to England in 1621, its possession being contested by both nations thereofter till 171; when by the Treatr of Utrecht it was ceded to Britain It is governed by a ministry responsible to a House of Assembly of 38 members. The province sends 10 senators and 14 M.P 's to the Dominion Parliament. Dominion Parliament.

Novatianism endom Novatian, Bishop of Rome, protested against the lax readmission of communicants who, during the Decian persecution, relapsed into paganism His followers spread over the Empire, calling themselves Catharists or Paritons, reabsorbed

Novaya Zemlya Grin Group of isla Novaya Zemiya in the Ar Ocean belonging to Russia It consists two large islands and many smaller obetween Barents Sea and Kara Sea area is 35,000 sq m. There are a few habitants, but the interior is largely unkno

Novel Work of prose fiction, prima one that has a background of life It developed from the romance will deals with legendary matter and origins

deals with legendary matter and origing in the novella of Boccaccio and other writen the 18th century English and Frewriters began to express their ideas in novel, and in the 19th and 20th centurie became the most popular form of literature. The history of the English novel has a summarised as follows "In the 150 y that were the flowering time of English priction, between the publication of Fieldi first novel has been adapted to an infinit different shapes, domestic, sentimental." different shapes, domestic, sentimental, different shapes, domestic, sentimental, istic, philosophical, didactic, propagan But all great novels have this in commentat they are an interpretation as well; presentation of life, that they view th temporal against a background of the ternal, and that they are an attempt reconcile the known with the unknown Since the Great War the literary nove Europe has concerned itself very largely the mechanic of psychology. the problems of psychology

Novello Ivor British actor and composer Born Jan 15, 1893 was educated at Magdalen College Sol was a chorister of Magdalen College and studied composition under Dr Brewer Gloncester He wrote many songs, inclu "Keep the Home Fires Burning" He by management on the stage with The Ro 1924. He has acted in several of his plays—The Ral, Symphony in Two Fla Lived with You, Glamorous Night (1935) has also acted star parts in many films

Novello Vincent English must and publisher Born in Lon Sept 6, 1781, the son of an Italian fa and an English mother, he was a chor at the Sardinian Chapel where he learnt He was organist in several chape London and was a founder of the Philharm Society in 1813 He wrote much sa music, and introduced into England n music, and introduced into ringistia in unknown compositions by the great mas His first work in 1811, a collection of sa music, marked the founding of the publis house of Novello He died Aug 9, 1861

Crystalline salt which Novocaine crystaline sait which convocaine is known also as ethocaine by chloride. It is a highly complex substraction of the chloride in several stages from glycol bridge. Novocaine hydrin, and is user as a local anaesti in surgery, particularly dentistry, as a toxic though less efficient substitute cocaine

sends 10 senators and 14 M.P 's to the Parliament.

Lianism Schism which arose in 3rd-century Christ-Novatian, Bishop of Rome, protested the lax readmission of communicants that the Decian persecution, relapsed mism His followers spread over the calling themselves Catharists or by the 6th century they were the call of the can be considered to t

4 NURSING

Shadows (1917) Robin Hood (1927) The Immortal Legions (set to music by Sir Edward Elgar), the Last Vojage (1930), The Torch bearers (1931) and (prose) The Unknown God (1934)

Noyon City of France It is 67 m from Parls on the little River Verse The chief building is the cathedral, a beautiful edifice which was damaged during the Great War, when the city was occupied by the Germans. Noyon was one of the capitals of the Frankish kings and here John Calvin was

the Frankish kings and born Pop 7000

Nubia Region in Africa Extending from Nubia the Red Sca to the Nile and from Egypt to Abyssinia it was important in ancient times, later being known as Ethiopia It is now largely in the Anglo Egyptian Sudan, where the name is preserved as the Nubian Desert Nucleus Latin word, meaning "kernel, which matter sathers In physics it denoting the central mass round

Nucleus denoting the central mass round which matter gathers In physics, it denotes a central particle, constituting with its electrons an atom, or the densest region of a comet s head or sun spot In biology, it denotes a roundish body included in and essential to the growth of an animal or vegetable cell (q v)

Nudism and Nudist Movement. See SUN

Nuisance in law something that causes in injury, loss or inconvenience to another Public nuisances include the carrying on of offensive or dangerous trades, the depositing of rubbish in a public place, the public place, the depositing of rubbish in a public place, the public place, the depositing of foul drains and other things likely to damage the health or morale of the community. There are also private nuisances, such as making continuous noises near a dwelling house. The sanitary inspectors and other officials have power to stop public nuisances which they do by obtaining an order from a Court of Law.

Nullity word used in a legal sense in courts of law have power to declare a marriage rull and void on several grounds. These include insanity or impotence on the part of one of the partners, a prior marriage or con sanguinity A marriage may also be declared null if the consent of one of the parties was

obtained by fraud

Numbers Book of Fourth book of the indicates its statistical records of two national censuses, beginning and ending the wilderness wanderings (i iv, xxvi) Notices of out standing events include the rebellion of Korah, Dathan and Abiram, the visit of the twelve spies to Canaan and the Baalam mission Much legislation is interspersed, and lost volumes of early poetry are quoted

Numeral Figure used to express as for expressing numbers was adopted by the Greeks and some other ancient nations, and later by the Romans, who used the seven letters—M D C L X V I—in various combinations, a cumbrous method still in use to some extent. From about the 12th century European nations adopted the so called Arabic system of notation, a modification of Hindu numerals, as being more convenient for use than the Roman numerals.

of Hindu numerals, as being more convenient for use than the Roman numerals.

Num1d1a Name given by the Romans to a district now part of Algeria. It was seized by the Romans about 200 B c. but remained under its own kings

A century later one of them, Jugurtha, revolted, and the land was conquered In 46 B C Julius Caesar made it a province

Numismatics Science of coins and the history and art of coinage among ancient and modern nations and has its value as a historical record and as a study of the mythologic art of ancient peoples Apart from coinage proper, the art of casting medals reached a high level in Italy in the 15th century

Nunc Dimittis Psalm or canticle used Christian Church It is the Song of Simeon (Luke ii) after he had seen the child Jesus and begins, "Lord lettest Thou Thy servant depart in peace" It is in the Prayer Book of the Church of England for use at evensong, and is used in the Roman Catholic Church at compline

Nuncio (Latin nuntius, messenger) Term on Papal business He is thus the equivalent

of an ambassador

Nuncaton Municipal borough and mar On the River Anker, 9 m from Coventry, and 97 from London, on the LMS Rly, it has manufactures of ribbons, etc., glazed bricks, tiles and sanitary pipes Here was born the novelist whose pen name was George Eliot Pop (1931) 46,305

Nunhead District of London It is 6 m from the city by the S Rly, and is part of the borough of Camberwell

Nuremberg (Nürnberg) City of Bavaria On the River Pegnitz, 95 m from Munich, it is a centre for toy manufacture Optical electrical and other apparatuses are made, and there is a large production of pencils and allied articles Printing is a leading industry An ancient town, it still has the old walls and moat, with many buildings of the Middle Ages Albrecht Dürer was born here, and a number of his works are in the picture gallery The high school was founded by Melanchthon The castle, dating from 1050 was an imperial residence It has a broadcasting station (239 M, 2 kW) Pop 392,500

Nursery School Institution which healthy development of children between the ages of 2 and 5, thus bringing the gap (in England) between the Infant Welfare Contre and the Elementary School The establishment of state Nursery Schools in 1929 was due largely to the ploneer work of Miss Margaret McMillan at Deptiord In them great stress is laid on the value of open air, sunlight, play, rest and cleanliness

Nursing Sick nursing owes its development primarily to three factors bistory is however, it was not until the 19th century that regular training was started in Germany—a movement which was to gain impetus from the work of Florence Nightingale (qv) in the Crimean War, and to be furthered by the needs of the sick and wounded in the American Civil War

NURSING AS A CAREER Since the passing

of the Registration Act in 1919 nurses have been recognised as essential servants of the

State

The nursing profession may be divided into the following branches institutional, state services, local government, independent, educational, industrial, overseas, and district nursing Training in a hospital recognised by the

General Nursing Council, under the Nurses' Registration Acts, is essential in all branches of the profession with the exception of that of Midwifery, which is organised by the Central Midwives' Board

In choosing a training school the candidate must inform herself whether it be a training school approved by the General Nursing Council She usually has a short period in a preliminary training school and a trial period in the contract of in the wards, before signing her contract with the hospital authorities for three or four years'

training

During her three or four years' training she takes the State Examinations, the preliminary after eighteen months' training, and the senior at the end of three years (fees, five guineas in all) She may then place her name on the in all) She may then place her name on the State Register At the completion of her contract with her hospital she receives the hospital cortificate and has the status of a trained nurse

The rate of pay for probationers varies from £18 a year to £40 in the senior year

Training may also be taken at various specialised hospitals for particular branches of the profession, but the general training certifi-cate is usually required in addition The types of hospitals providing training are

For young girls, 18-21 Sick Children's Hospitals—preparing candidates for registration as sick children's nurses

Fever Hospitals—preparing candidates for registration as fever nurses Orthopaedic Hospitals Babies' Hospitals

Eye Hospitals

Children's Convalescent Hospitals For candidates of 21 and over

General training at approved General Hospital Training Schools (see above) Montal Hospitals—preparing candidates for registration as montal nurses Skin Diseases Hospitals Women's and Children's Hospitals

Tuberculosis Hospitals Convalescent Hospitals

Midwifery Training Schools
The salaries for Institutional Nursing vary
from about £60 for a staff nurse to £500 for a superintendent

In the State Services rates of pay are usually higher, but regulations are more rigid, and army nurses may be called upon to do a period of service abroad

District Nursing -The work of the District Nurse is the nursing of the poor in their own homes Appointments are made by District Nursing Associations, organised by Voluntary Committees, most are affiliated to the Queen's Institute of District Nursing, 58 Victoria Street, S.W.1

Other Public Health Nursing work includes Health Visiting, Tuberculosis Nursing, and School Nursing These appointments are made by local Maternity and Child Welfare Education Committees, and some by voluntary committees Health Visitors must undertake a special training and obtain the Certificate of the Royal Sanitary Institute approved by the Ministry of Health
Private Nursing—A nurse engaged in Private of distinctional forms to distinct the control of the Private of distinctions and the control of the control o

private as distinguished from hospital nursing

usually resides in or belongs to a Nurses' Co-operation which may or may not be connected with a private nursing home Cases are then taken in turn by the nurses, who make use of the "home" while not employed on a case

Full information regarding the Nursing profession can be obtained from the College of Nursing (Henrietta Street, Cavendish Square, London, W 1)

Nutcracker Bird of the raven and caryocatactes) It has a brown body plumage speckled with white, black wings and tail, the beak is long and nearly straight. They are common in northern Europe and Asia

Nutneg Seed-kernel of the fleshy fruit of a bushy evergreen tree, (Myristica fragrans) indigenous to the Dutch E Indies It is used as an aromatic condiment, cookery and in medicine the fibrous network enclosing the nutshell is the spice called mace The trees grow widely in Penang, the W Indies and tropical S America

Nux Vomica Disk-shaped seeds of a small deciduous tree of the strvohnos family (Strychnos nux-vomica), Indigenous to India, and growing also in Farther India and N Australia They and the allied Ignatius beans of the Philippines yield most of the bitter alkaloid poisons, strychnine and its derivatives, employed medicinally as tonics and heart stimulants

Nyasa Lake of Africa, the largest in David Livingstone in 1859 It is in the southeast and covers 15,000 sq m, being 350 meastern British and Portuguese Fort Johnston and Karonga are ports on the lake A number of rivers flow into it and its waters are carried by the Shire to the Zambesi

Nyasaland British Protectorate in Central Africa, bounded by

Tanganyika, Rhodesia and st Africa The climate is tropical Lake Nyasa, Portuguese East Africa The climate is tropical but cooler in the Shiré Highlands Large areas are fertile and plantations of coffee, cotton, tobacco, tea, etc., are established Native education is provided by Missionary Societies Blantyre, under Government grants the chief settlement, is connected by rail with the port Beira. The railway now crosses the Zambesi by a bridge, over 12,000 feet long, opened in 1935 between Sena and Dona Anna Capital Table. Capital, Zomba.

Area (land) 37,596 sq m. Pop (1931)
1,498,836 natives, 3447 others

Numbh In classical mythology, a localminor

Nymph In classical mythologised nature-spirit  $\mathbf{or}$ divinity, to whom offerings of milk and honey might be made They were classed as water nymphs, Nerelds and Naiads, mountain nymphs, Oreads, tree-nymphs, Dryads, and the like

Nystagmus Medical term for an involuntary movement of the eyeball, due to a nervous spasm of the muscles of the eye It is either congenital, acquired or a symptom of some cerebrospinal disease When the movement is horizontal the nystagmus is termed oscillatory other movements are either poterve. tory, other movements are either rotary or oblique. It is frequently observed in miners who are constantly working in a dull light This form of nystagmus is regarded as an occupational neurosis

AK Genus of deciduous or ever green trees (Quercus) and shrubs of the beech order, na lives of N temperate regions in their nuts, called acorns, have oup like receptacles of nearly 300 species one only, Q robur, is indigenous to Britain, it is found in all temperate regions

Two forms occur, with stalked leaves and acoms, they may attain 120 ft. in helpful The timber was largely used, notably in 16th-18th century Britain, for shipbuilding, roof construction, wall panelling and furniture Home grown oak still provides railway wagons church furniture and wood block flooring Oak bark is a source of tannin, acoms a favourite swine food See Bog Oak, CORK, HOLM OAK

Oak-Apple Day In England name to May 29th, the birthday in 1630 of King Charles II On this date, in 1660, he returned to Ungland, the Rostoration Oak leaves and boughs were then used as decorations by the royalists, in remembrance of the king's escape at Boscobel, by concealing himself in an oak tree after the Battle of Worcester in 1651

Oakengates Market town and urban district of Shropshire It is 13 m east of Shrewsbury and 140 from London, by the GW Rly Coal and iron industries are carried on Pop (1931) 11,189

Oak Gall Lecrescence on the surface in size and form, from oak apples to oak spangles, they occur on leaves flower stalks bark and rootlets They are mostly due to gall wasps, Cymps, whose eggs are deposited with an irritant fluid which occasions the abnormal cell growth Some, especially the Levantine, yield tannin and gallic acid

Oakham Urban district of Rutland, also west of Stamford, and 94 from London, by the L M S Rly, being also served by the L.N.E Rly It has footwear manufactures Pop (1931) 3191

Oaks The English horse race It is run and is open to fillies of three years old It is named after a house near Epsom, once the residence of the Earl of Derby

Oakum Substance obtained from old untwisted and picked into separate loose hempen fibres It is employed in caulking the seams of wooden vessels and the deck planking of steel ships, and is an emergency wound dressing Oakum picking was formerly exercised in convict prisons and workhouses Untarred ropes furnish white oakum

Oakworth Urban district of Yorkshire 215 m from London by the LMS Rly, and has textlle manufactures Pop 4170

has textile manufactures Pop 4170
Oamaru Town and port of South Island,
New Zealand It is 156 m from
Christchurch Its industries are connected with
the meat and wool produced Pop 7510

Oar Fish Genus of large deep sea spiny finned ribbon fishes (Regalecus)
The scaleless body 12 to 20 ft. long, is sur

mounted by a continuous dorsal fin whose foremost rays are onlarged into a crest, the ventrals become long paddle tipped filaments During the past 150 years examples have been stranded on British coasts

Oas1s Geographical term for a fertile of the presence of wells or subterranean water, or again to the sinking of artesian wells as practised in North Africa and Australia Usually in Africa doum and date palms are characteristic of cases, but in larger areas various cereals are cultivated

Oates Lawronce Edward Grace English explore: Born in 1880, he was educated at Lton and became a soldior He served with the cavalry in South Africa (1901 02) and later wars in India and Egypt In 1910 he went with Scott on the expedition to reach the South Pole On March 17 1912, whon they were returning and in dire straits, Captain Oates who was crippled with frost walked out into the open and met his death in order to make the task of his comrades easier His epitaph is a very gallant gontleman 'A district in Antarctica is named after him.

Oates Titus English conspirator Born in 1649, he took Anglican orders, and after being dismissed from several posts, posed as a Roman Catholic in order to get inside knowledge of supposed Catholic plots With the aid of Tonge, he pieced together the true and the false and informed the king through his confidential servants Charles II did not believe his story, although the populace did and acclaimed him as saviour of the country by his unscrupulousness thirty five people were wrongly executed He was later found out disgraced flogged, and imprisoned for life but after the Revolution of 1688 he was set at liberty He died July 12 1705

Oath Solemn declaration attested by the all evidence must be given on oath, save that since the Oaths Act of 1888 any one who objects to an oath on the ground of religious belief may make an affirmation instead By the Oaths Act of 1909, the witness, when being sworn in, may hold a copy of the Scriptures in his hand, instead of "kissing the book"

Oatlands District of Surrey It is near Weybridge and was once a park in which Henry VIII built a palace. This was used by James I and Charles I but was destroyed by the Parliamentarians It was rebuilt by the Duke of York, a son of George III, and is now an hotel

Oats Annual cereal grass (Avena salwa), age Europe It is grown extensively in Contral and N Europe, Russia, the USA, Canada, Argentina and elsewhere The world production is 66 million tons of which Great Britain raises 3 million and Canada 61 million tons Mostly grown for horse fodder, costs are also an important human food Kiln dried and freed from husses they become groats, are ground into catmeal for porridge or propared as breakfast cereal e.g., rolled cats, cat flakes etc.

Obadiah Hebrew Minor prophet. The first sixteen verses of his Book

Oban Burgh, seaport, market town and pleasure resort of Argyllshire It is pleasure resort of Argylsinire 16 is 113 m from Glasgow and is reached by the LMS and LNE Rivs, and also by steamer It stands on a bay protected by the Island of Kerrera, which makes a fine harbour It is a vachting centre, and here the Argylshire Gathering is held in September The scenery around is very beautiful Pop (1931) 5759

Obelisk Tall four sided monolthic pillar tapering towards the summit and having a pyramidal apex often covered by a copper sheath Obelisks were used chiefly in Ancient Egypt and were erected either as memorials by some monarch or as pillars in relation to the entrance of a temple One obelisk, erected by Queen Hatshepsut and still standing at Karnak, is over 107 ft. in height and weighs about 300 tons over 107 ft in height and weighs about 300 tons The so-called Cleopatra's Needle in London is an obelisk brought from Heliopolis, where one creeted by Senusert I still remains Others from the same locality have been brought to Rome and New York

Oberammergau Village of Upper Bavaria, Germany Situated in the Ammer valley, 45 m SSW of Munich, with electric railway connection, its peasant inhabitants are wood and ivory carvers, producing toys, crucifixes and other religious objects. After a plague in 1633 the villagers vowed to present every tenth year, as an act of devotion, a living representation of Christ's Passion, as already done from mediaeval times This has been done ever since, almost without exception, the last occasion being in 1930 Sec Passion Play

King of the Fairles He appears in a French romance of the 13th Oberon century, but is better known as a character introduced by Shakespeare into A Midsummer Nught's Dream Oberon is the title of a masque by Ben Jonson

Obesity Condition of the body marked by over accumulation of fat. It usually occurs immediately beneath the skin, as in the neck and thighs, or around the abdomen and various internal organs Sometimes hereditary it may betoken a luxurious, inactive life, with over-indulgence in sleep, food or malt liquors. Dieting sometimes affords relief

Oblates In the Roman Catholic Church, secular persons devoted to a monastery without monastic vows The term denotes also congregations of fathers or sisters at the bidding of the bishop in whose diocese they live, for preaching, educational or mis sionary work, eg Oblates of S Charles, 1578, Oblates of Mary Immaculate, 1815

Oblates of Mary Immacurate, 1913

Oboe (or Hautboy) Treble reed-wood-wind instrument, with a conical bore and a double-reed mouthpiece It is usually made of chony silver or boxwood, has fifteen keys and two octave keys The compass is from B flat below the treble stave, to be in alt, with all chromatic semitones. It gives and is technically. rich, if penotrating notes, and is, technically, very efficient.

Obregon Alvaro Mexican president planet eq that of one of its own moons by Born in 1880 with Villa and Gonzalez he took a leading part in Carranza's mining longitudes, or measuring the occulting forces, he entered Mexico City, Aug 15, 1914 When in 1915 Villa turned against Carranza, Cecan Geographical name for the largest expanses of water which together

announce Edom's destruction, the last five, post-exilic, predict Israel's restoration and the coming of the Day of the Lord

Obregon led the campaigns against Villa. Chosen President in Sept. 1920, he held that office till 1924 Succeeded then by Calles, he was again elected President four years later to follow Calles, but was assassinated on July 17. 1928

Observatory Building where observa-are of two main kinds, astronomical and meteorological, although some, Greenwich, for

example, do both kinds of work
There are three royal observatories in the
British Empire, at Greenwich, Edinburgh and
the Cape of Good Hope In addition there are
some 30 others scattered all over the Empire, one being at Canberra and another at Apia in Samoa Some of these observatories are especially for the study of solar physics

The finest astronomical observatories in the

world are probably those of the United States Among them are the Lick Observatory in California with the most powerful telescope in the world, the Lowell Observatory in Arizona, on a mountain 7000 ft, high, and the Carnegie Solar Observatory on Mt Wilson, California. Great Britain has eight meteorological

observatories Observer Rank in the Royal Air Force pilot, and his duties are indicated by his name The equivalent rank in the navy is that of sublieutenant, or mate, and in the army that of lieutenant

Obstetrics Branch of medical science covering treatment pre-yious to and during child-birth and the aftertreatment Although an ancient science, marked improvements are comparatively modern as in the use of specialised instruments, the introduction of chloroform and hypodermic injections as anaesthetics Improvements in surgical technique have removed most of the danger of major operations such as the Caesarean which may occasionally be necessary. The provision of properly qualified midwives in industrial and other areas has proved notably beneficial

Occam William of English schoolman Known as Doctor Singularis et Invincibilis, he was born at Ockham, Surrey, about 1300 He joined the Franciscans and studied and taught at Merton College, Oxford, between 1312 24 He was one of the most important figures in the struggle between Pope and Emperor, and advocated the independence of civil rule, and attacked the temporal power of the Papacy He also wrote much in philosophy metaphysics and theology. much in philosophy, metaphysics and theology, and his chief work, summarising his views, was the Dialogus He died at Munich in 1349

Occlusion Term, "shutting up," denoting (1) fitting together of

the masticating surfaces of the upper and lower teeth in biting, (2) absorption of gases by certain elements Palladium absorbs 800-900 times its own volume of hydrogen when heated as a cathode for decomposing water, finely-divided charcoal absorbs deleterious gases, a power utilised for disinfection

Occultation In astronomy, the hiding of one celestial body behind another It may be the eclipse of a fixed star or planetery body by the moon or a planet eq that of one of its own moons by Jupiter Occultations are utilised for determining longitudes or measurement by equilibrium the constitutions.

occupy about 72 per cent. of the carta's surface Of these the Pacific Ocean is the largest, being equal to about three eighths of the total oceanic area and having the greatest dopths Fringing the ocean basins are shallower mar-ginal seas covering a continental shelf or plat form over which at various periods in geological history the oceanic waters have encroached or even receded to the edge of the submerged shelf. See ATLANTIC, PACIFIC, etc.

Oceania Name applied to the islands in tralia to the Marquesa Islands and the Low Archipelago, and from New Zealand to the Hawalian Group The main divisions of the region are the three large islands, Australia, Tasmanla and New Gulnea, and three island groups Melanesia, including the Solomon Islands and the New Hebrides and partly New Caledonia, Microscia, including the Capilina Caledonia, Micronesia including the Caroline Islands and the Ladrone Group and Polynesia, extending from New Zealand to Hawaii, and from the line from New Caledonia and the Gilbert Islands eastward

Oceanus In legend, the name of the river supposed to encircle the earth It was originally the name of a god

Ocelot Handsome American cat (Felis pardalis), ranging from Arkansas to Paragusy Corresponding to the clouded leopard of S E Asia, it is 3 to 4 ft long, with 11 to 15 in tall Normally tawny yellow, spotted black-edged, fawn coloured markings several varieties occur A forest animal of savage disposition, it preys on small mammals and birds

Ochil Range of hills in Perthshire and neighbourhood Thoy are in the south-east of the county and extend also into the counties of Stirling, Fife, Clackmannan and Kinross The range is about 25 m long and the highest restricted in the stirling of the stir the highest points are just over 2000 ft

Ochre Name given to cortain earthy or clayey varieties of the oxides of the hydrated oxide, limonite whilst red ochre, or reddle, is a variety of the peroxide haematite These ochres when ground and washed are used as pigments but much of the commercial material is prepared artificially from iron ordices, although the manufactured pigment is inferior to the natural one Ochres are obtained from France, Holland and the midland counties of England

O'Connell Daniel Irish patriot and politician, nicknamed "The Liberator" Born near Cahirciven County Kerry, on Aug 6, 1775 He was called to the Irish Bar in 1798 and displayed a great gift for oratory In 1829 the Irish Catholics were emancipated He organised the Irishmen into the "Catholic Association" and began in 1841 his agitation for the ropeal of the Union The Tory cablnet, and mass professional sympathetic, and mass under Peel, was not sympathetic, and mass meetings were held everywhere O'Connell was imprisoned for selition on the eve of success and a few months later set free He died on May 15, 1847

Octave In music (1) The perfectly con formed by the sounding of any scale note with that above it bearing the same name (2) An organ stop of 8 ft. on the pedals (or 4 ft on name of 1). manuala)

In poetry (1) An eight lined (2) The first two quatrains of a sonnet written on the same pair of rhymes

The octave of a church feast occurs on the same name day of the following week.

Octavia Roman matron She was the Sister of the Emperor Augustus (Octavian) and a nicee of Julius Caesar She married first Gaius Marcellus and secondly Mark Antony, who left her for Cleopatra and so brought about the ronewed quarrel with Augustus which ended in Antony's death

Octavia died in 11 B C
Octavo Term used in bookbinding for a book or sheet of printed paper which has been folded three times or one-eighth of its original size thus forming cight leaves or sixteen pages. The word octavo is usually abbreviated to 8vo and certain sizes of books are named foolscap 8vo, demy 8vo, royal 8vo

Octopus Widespread group of eight armed, head footed molluscs. They have rounded bag like bodies, large eyes and central mouths with horny laws like parrot beaks Besides the common octopus, with double rows of suckers to each tentacle, a lesser one also occurs on British coasts, belonging to another genus, with single rows of suckers See CEPHALOPODA

Oddfellow Name given to members of certain friendly societies. The first was founded in London early in the 19th century It ceased to exist about the end of the century, but in 1810 the Independent Order of Oddfellows, Manchester Unity, was founded, and this is now one of the largest of the friendly societies. It has about 1,100,000 members and funds amounting to over £25 000 000

Ode Form of stately and elaborate lyrical derives from the Greek choir song, and was originally a poem written to be sung to an instrumental accompaniment, supported by a chorus Pindar the mester of the ode, de veloped it in a consciously elaborate form. Modern poets follow the lyrical ode of Sappho and Alcaeus.

Odense City and seaport of Denmark It is on the river of the same name on the Island of Fünen 27 m from Copenhagen A ship canal connects it with the fjord of Odense There is a good harbour and the city is one of the country's chief seaports It has a heaviful Cathin cathedral and the It has a beautiful Gothic cathedral, and the house in which Hans Andersen was born is now a museum Pop (1930) 56,769

Oder River of Europe It rises in Czecho slovakia, but soon enters Germany and flows mainly in a northerly direction to Stettin on the North Sea It is 500 m long, and most of its course is navigable for small vessels Canals connect it with the Elbe and the Vistula. Its chief tributary is the Warta.

Odessa Seaport of the Ukraine On the Black Sea, about 25 m from the mouth of the Dniester and 90 m south west of Kherson, in the government of that name, Odessa is in the midst of a grain district When Guessa is in the initiat of a grain district when the Dardanelles were closed by Turkey, in 1914, Odessa was cut off from the allies, and was bombarded by the Turks Captured by German forces in March, 1918, it was taken by the Bolshevists in 1920 It has a broadcasting station (450 4 M, 4 kW) Pop 497,000

Odin Chief god of the Northern pantheon the Angle Saxon Woden Originally a storm god "the frenzied one," he was repre sented as venerable, one-eyed, and attended by two ravens and wolves. He was worshipped chiefly by the warrior nobles and their retainers, and called the All-father and receiver of the souls of the slain in Valhalla

O'Donnell Ancient Irish family They were lords of Tyrconnel, whose rivals were the Ulster O'Neills They were descended from King Niall of the Nine Hostages, who reigned at the beginning of the fifth century Tyrconnel comprised the greater

part of modern Donegal

part of modern Donegal

The first great chieftain was Goffraidh, in the thirteenth century who was the first to be called "The O'Donnell" and who successfully raided Tyrone and Connaught Manus O'Donnell ruled Tyrone whom his father pilgrimaged to Rome in 1511, but retained his authority after his return, with the help of the O'Neills Later father and son fought the O'Neills, but they joined together with the O'Briens to form the Geraldine League, to restore the earldom of Kildaro to Gerald, the stepson of Manus He died in 1564

Calvarh O'Donnell, eldest son of Manus

Calvagh O'Donnell, eldest son of Manus, was captured by Shane O'Neill, tortured for three years, and when released, appealed to Elizabeth He was restored to his rights, but died

beth He was restored to his rights, our died the following year. Hugh Roe ("Red Hugh") O'Donnell was born in 1571 and fought against the English in Ireland In 1602 he fled to Spain, leaving everything to his brother, Rory O'Donnell, born 1575 He paid allegiance to the king, but later plotted to seize Dublin Castle in 1607, was found out, fled to Rome, and died there in 1608.

Odysseus Alternative name for the Greek hero Ulveses (qv)

Oedipus In Greek legend, son of Laius, An oracle having warned Laius that Jocasta's offspring would cause his death, Oedipus was exposed, but was found by shepherds, and brought up ignorant of his parentage Unwittingly he slew his father and wedded his own mother The gods demanded the discovery of the king's slaver, and the result of the Investigation led Jocasta to hang herself and Occipus to become self-blinded The story The story inspired two tragedies by Sophocles

Oenolin Name given to the colouring matter of wines It is a violet red or brownish red powder obtained from wine by precipitation with basic lead acetate

Oesophagus Name given to the 'ubular portion of the alimentary canal leading from the pharynx to the stomach in an animal It has no digestive function but merely serves to carry food from the mouth In the higher crustacca the hinder end of the ocsophagus forms a kind of gizzard

Offa King of Mercia. Of royal blood, he ejected a rival and obtained the crown, 757 He restored Mercia's shrunlen condition, and by vigorous campaigns secured virtual control of Britain S of the Humber Harmed described on Vincent the English by the He was described as King of the English by the Pope who sanctioned a new archbishopric at Lichfield He died in 706

Offal Refuse or waste Butcher's offal comprises all besides the hanging carcase During the Great War, when meat was rationed, liver, sweetbread, etc., were ranked as offal and unrationed A hide's prime parts form the butts, shoulder and belly pieces being offal In flour-milling, bran, with some flour attached, is offal, furnishing cattle-food

County of the Irish Free State, formerly called King's County Offaly It covers 733 sq m and is wholly inland The Shannon, which flows along its boundary the Brosna and the Barrow are the principal rivers There are hills in the south, and the rivers shore contains much of the Bog of Allen Tullamore is the county town other places Tullamore is the county town other places are Birr or Parsonstown, Banagher, Edenderry and Philipstown An agricultural area, the Grand Canal passes through it. Pop (1926)

Offa's Dyke Ancient earthwork forming a boundary between Mercia and the Welsh Built by King Offa, about 779, its remains still traverse discontinuously for 140 m portions of four Welsh and three English counties from the Dee to the Severn estuaries Mostly a rampart, seldom exceeding 12 ft in height, its ditch lies on the W side

Offenbach Jacques German-Jewish composer Born at Cologne German-Jewish Jan 21 1819, in 1833 he went to Paris where he conducted the orchestra of the "Théatre Français" in 1848, and was manager of the "Bouffes Parisiens" in 1855 He was the composer of many light operas, including La Belle Hélène, La Grande Duchesse, Orphée aux Enfers and Les Contes d'Hoffmann, which is still popular. He died Oct. 5 1889. is still popular He died Oct. 5, 1880

Officer Person holding a commission in the fighting forces Army officers were at first required to collect and maintain, at the public expense, the men forming their troops, but now they only command and lead them Training institutions include the Royal Staff College, the Royal Military Academy, Woodwich and the Royal Military College. Staff College, the Roval Military Academy, Woolwich, and the Royal Military College, Sandhurst The Officers' Training Corps is an organisation among the universities (senior branch) and schools (junior branch) whereby students receive training in military drill musketry, signalling, etc, with the object of teaching them obedience, discipline and self-control See NAVY, AIR FORCE, etc.

Official Receiver Legal official appointed to look after the affairs of bankrupts They were

look after the affairs of bankrupts They were

look after the affairs of bankrupts. They were first appointed in 1883. Some of the receivers are at the bankruptcy court in Carev St, London, WC2, while others are in the large cities and towns of the provinces.

Offset in printing, a process in which the impression of a design is transferred to a rubber evilinder from which it is printed or offset. It is specially suitable for reproducing designs on rough paper. In surveying, offsets are lines drawn perpendicular to a given straight line for the measurement of distances. line for the measurement of distances.

Ogive Architectural term used in France for the pointed type of arch which occurs in some early churches such as the Abbey of Clunv and some late Romanesque buildings, although it did not become common until the period of Gothic architecture. The pointed arch was used in Syrian, Persian and Saracenic buildings and probably was intro-duced into Europe by way of Sicily In English architecture the term ogive ribs is applied to the main intersecting ribs of a vault.

Oglethorpe James Edward English Born in London Dec. 21 1696, he was aide-de-camp to Prince Eugene in his campuign against the Turks (1716-17) distinguishing himself at the slege of Belgrade He later entered Parliament, and was responsible for the mettling of a

he called Georgia (q v)

Ogmore blire in full Ogmore and Garw It is 3 m from Bridgend It is a coal mining area. The place is named from the river Ogmore

which flows through Glamorganshire to the Bristol Channel Pop (1931) 20,979
O'Higgins Bernardo Chilean soldier and statesman, the son of the Irishman, Ambrosio O'Higgins, Governor of Chile, he was born Aug 20, 1776, and educated abroad O'Higgins returned to Chile in 1802, and fought against the Royalists As commander he superseded Carrera, whose rivalry caused him to flee to Mendoza Here he met José de San Martin with whom he began a long and loyal association, which resulted in long and loyal association, which resulted in the decisive victory of Chacabuce (1817) In 1822 O'Higgins called a congress, which adopted a constitution giving him dictatorial powers over Chile Discontent and risings occurred, and in 1823 O Higgins resigned his post of director-general and retired to Peru He died Oct 24, 1842

O'Higgins Kevin Ch Christopher Born in 1892, after the Easter rebellion of 1916 he joined the Sinn Fein Movement, and was interned While in gaol, he was elected member for Queen s County In 1922 he became Minister of Justice While County In 1922 he became Minister of Justice in the New Free State Government, and established the Civic Guard which put down disorder firmly While the controversy with de valere on the taking of the Oath in the Dail was proceeding, O'Higgins was assassinated by unknown men, July 10, 1927

Oh10 the country, Lake Eric forming most the posthern boundary. The country is

of its northern boundary The capital is Columbus, and there are several other very populous centres, including, Cleveland, Cin oinnati Toledo, Akron, Dayton, Youngstown, Canton and Springfield The state is largely an agricultural area and great quantities of wheat and maize are produced The rearing of livested is also conducted on a learn call. wheth that hate or producted on a large scale Iron and coal are mined and the shipping on Lake Erie is an important industry. Ohio Lake brie is an important industry is governed by a legislature of two houses
It sends two senators and 24 representatives
to Congress Ohio covers 41 040 sq m Pop (1930) 6,646,700

(1930) 6,646,700

Oh10 River of the U.S.A. It rises near Pittsburg, being a union of the Monongahela and the Allegheny, and flows to the Mississippi, which it enters at Cairo It is 975 m long and is navigable by large vessels, being perhaps the most important waterway in the country Its tributaries include Tennessee, Cumberland, Wabash and Kentucky Pittsburg and Cincinnnati are the largest cities on its banks

Ohm Term applied to the practical unit of electrical resistance defined as the resistance of a column of mercury 1863 cms long of a constant area in cross section and weighing 14 4521 grams at the temperature of melting ice A megohm is one million ohms and a microhm one millionth of an ohm

Ohm's law states that in a circuit carrying a constant current, the current is directly proportional to the electromotive force and inversely proportional to the resistance of the

circuit

Form of electrical instru Ohmmeter ment used for measur

colony in America between Carolina and lng electrical resistance directly in terms of Florida, as a refuga for insolvent people and ohms and megahns. There are many forms oppressed Protestants on the continent. This characteristic forms on type consisting of two fixed coils with another coil placed at right angles to the other two and carrying a pointewhich moves freely over a graduated scale, these coils being of low and high resistance For testing the insulation resistance of cables etc some type of magneto generator is com bined with the instrument

O11 Fluid substance having a more or less viscous character and of cither mineral vegetable or animal origin The mineral cits, consisting of hydrocarbons, are derived from the decomposition of organic matter in rocks and are represented by petro

leum and its derivatives

The vegotable oils consist of fixed or fatty oils and essential or volatile oils the former being again divided into drying and non drying oils. The fixed oils, composed of mixtures of glycerides of fatty acids, vary in consistence some being solid fats above 68°F, and others which remain liquid at ordinary and others which remain liquid at ordinary temperatures The drying oils undergo oxida-tion on exposure to light and air forming a tough film, and consequently are used in paint and varnish manufacture such oils are, linseed, poppy, cottonseed and rape The nondrving oils such as olive, palm coconut and almond oils are used as lubricants edible oils, and in soap manufacture Essential oils are volatile odorous liquids distilled from plants and used in pharmacy and perfumery

The animal oils comprise fish and whale oils. seal oils, tallow, butter, etc, and are used as food or in soap and margarine manufacture

or as lubricants

For oil fuel see FUEL.

Oilcake Food given to cattle It consists of compressed seeds, from which the oil has been expressed

Oilcloth Type of floor covering It with successive coats of thick oil paint, each passed between heavy rollers, dried and rubbed smooth with pumicestone before the next is applied The surface may finally receive an ornamental pattern in oil colours derived from wooden blocks or analogous printing devices See LINOLEUM

## Oil Palm See PALM OIL.

Oise River of Belgium and France It rises in the Ardennes flows through France, and joins the Seine at Conflans the Bourse is negligible. The chief tributary is its course is navigable. The chief tributary is the Aisne others are the Ailette and the Buche and it passes Guise, Complègne and other places. The Oise gives its name to a department of north-east France, of which Beauvals is the capital

Ojibwas (or Chippewas) North American Indian tribe of Algonian stock. The name, "roast till puckered" may stock The name, roast in puckered may allude to their puckered moccasins. In early colonial times they occupied the Sioux and Fox territory, W and S of Lake Superior, and sided with Britain in the War of Independence They number 30 000 peaceably settled in the lake region of Canada and the U S  $\Lambda$ 

Native name of an Okapı ruminant of the giraffe family nsioni) Sir Harry Johnston dis (Olapia Johnstoni) Sir Harry Johnston dis covered it in the Semliki forest near Lake Albert in 1901 It stands 5 ft high at the giraffe's The purplish pelt is varied on buttocks and legs with horizontal black and buff stripes An Okapi, presented to the London Zoo by the King while Prince of Wales, died in Nov, 1935 shoulder, with limbs and neck shorter than the giraffe's The purplish pelt is varied on buttocks and legs with horizontal black and buff stripes An Okapi, presented to the London transcribed and distributed After good buff stripes An Okapi, presented to the London transcribed and distributed After good buff stripes An Okapi, presented to the London to the King while Prince of Weley and the Weley an

Okehampton Borough and market town of Devonshire About 17 m cast of Launceston it is situated at the junction of the East and West Okement Pop 3450 rivers

Oklahoma State of the United States
Oklahoma It is in the south of the
country, lying wholly inlend just to the north
of Texas Oklahoma City is the capital and
the largest place Tulsa is next in size The chief industries are the growing of wheat, oats, cotton, etc., and the mining of oil, of which an enormous quantity is produced in the state Government is by a legislature of two houses. The state sends two senators and nine representatives to Congress It has a large Indian population Pop (1930) 2,396,000

Olaf King of Norway and saint Born in 995, he terrorised the coasts of Normandy and England, and secured the throne of Norway in 1016 He tried to exterminate paganism, with such severity that his subjects abandoned him for Canute, King of Denmark. Olaf fied to his brother-in-law, Jaroslav of Russia, who gave him 4000 men, and in 1030 Olaf fought Canute at Stiklestad, but was defeated and killed He was later proclaimed patron saint of Norwey proclaimed patron saint of Norvey

Old Age Pension In Great Britain ries a pension paid by the state to all persons who reach a certain age In Great Britain it is paid to persons with certain exceptions on reaching the age of 70, but persons who are insured under the national health insurance scheme, and also the wives of the men, can obtain a pension on reaching the age of 65 Blind persons can claim at 50 Blind persons can claim at 50

To be entitled to a pension at the full rate of 10° a week, a person's income from investments and the like must not exceed \$26 5s a year, but before calculating this, he or she is entitled to deduct the first £39 of uncarned income In practice, therefore, a person can obtain a full pension if his unearned income is £65 5s a year or less If the income is in excess of this sum a smaller ponsion is paid, until a person with £88 17s. 6d a year cannot claim one of any kind. In the case of a married couple living together these sums are doubled Thus a man whose unearned income is under £130 10s a year can claim a full pension for To be entitled to a pension at the full rate flus a man whose uncarned income is under flus 10s a year can claim a full pension for himself and his wife To obtain a pension a person must apply for a form at a post office. The pensions are paid at the post offices every friday. See Health Insurance.

Old Bailey Street in London It goes gate Street, and at its junction with the latter is the Central Criminal Court, usually called the cold Bailey and a court was well been in 1821 Old Bailey A court was built here in 1834 and in 1902-07 this was rebuilt. The hall contains mural paintings by Sir W B Richmond

Oldbury Market town and urban district north-west of Birmingham There are manufactures of hardware and chemicals (1931) 35,918 Pop

Oldcastle Sir John Leader of the orname mon of fighting on the Welsh marches, where he formed a friendship with Henry, Prince of berries

a heretic in 1413 He escaped from the Tower. but was recaptured after four years, and hanged and burnt as a heretic

Oldenburg Republic of Germany Germany Formerly it was a grand-duchy of the German Empire, comprising, besides the grand-ducal territory with a seaboard on the North Sea, the former principalities of Lübeck, north of the state of that name and Birkenfeld, situated in the midst of the Rhine province The capital is Oldenburg, 27 m from Bremen, Eutin and Birkenfeld are the capitals of the other divisions of the republic Area, 2480 sq m Pop 545,200 See Lübeck See LUBECK

Oldham County borough and market town of Lancasnire On the Medlock, 188 m from London and 6 m. from Manchester, it is a leading centre for cotton spinning and other branches of that industry Textiles produced include satins, sateens, fustians, sheetings There are engineering works and collieries near by The town sends two members to Parliament Pop (1931) 140,309

Old Red Sandstone Name given by geologists to palaeozoic rocks between the Silurian and Carboniferous, to distinguish them from the New Red Sandstone above the Carboniferous, now renamed. Represented in Scotland by beds of great thickness, their fossil remains attest lagoon formation. With contemporary marine deposits occurring elsewhere, as in S W England they constitute the widespread Devonian system.

Old Testament Collection of 39 recording Jewish history and religion from the beginning down almost to the times of Jesus Christ and his apostles Written between the 8th and 2nd century, BC, in Hebrew or Aramaic, the Jewish grouping Law, Prophets and Writings, marks the stages which estab-lished the Hebrew canon The Law or Pentateuch was canonised first, probably under Ezra, c 444 B c The Prophets, all except Daniel with Joshua, Judges, Samuel and Kings, gained acceptance, c 200 B c The writings, comprising the rest, were subsequently admitted all receiving final sanction at the Jewish synod of Jamna, c 1 D 90 See Apocryph

Old Trafford District of Manchester To the west of the city It is chiefly known because it is the head-quarters of the Lancashire county cricket club

Oleander Evergreen shrub of the dog bane order (Nerum oleander) native of the Mediterranean region The erect stems bear leathery willow-like leaves which exude a poisonous milky juice when bruised The show clustered flowers, resembling those of the periwinkle, but rose-coloured or white, are greenhouse favourites in Britain, with double-flowered varieties

Oleaster Genus of decidnous or evergreen shrubs and small trees (*Clae-agnus*) akin to the spurge laurel order, natives of Europe Asia and N America Several ornamental species are cultivated The common olcaster *E angustifolia*, 15-20 ft. high, is grown round the Mcditerranean for its edible

Trade name for triolein, the trigly-ceride of olcic acid This is a colour less oil, with almost imperceptible smell and taste, liquid above 21° F, and soluble in alcohol With tripalmitin and tristearin, solid at ordinary temperatures, it enters into most animal and vegetable oils and fats These are usually natural species of varying chemical composition the so called olein expressed from palm oil and especially coco nut oil contains various other glycerides Much olcin is converted into stearin by hydro cenation

Oleograph Name given to a picture done in oil colours by a chromo lithographic process, the print being mounted on canvas and varnished to imitate

an oil painting

Oléron Island of France It is off the west const, at the mouth of the Charente, and has an area of 66 sq m The chief towns are Chateau d'Oléron and St Pierre

Oléron is famed because it gave its name a code of law for seamon. This consisted to a code of law for seamon This consisted of the decisions of the maritime court in the island and the accepted rules of the sea It was introduced into England in the 12th

century

Olfactory System See Nose
Olga Saint of Russia The daughter of
Duke Igor in 913 After the death of her husband in 945, she acted as regent for her son for a period of ten years She went to Con stantinople where she became a Christian Olga was canonised, her feast being July 11

Oligarchy Word of Greek origin, mean ing the rule of the few It is generally regarded as a bad form of govern ment the idea being that the few rule in their own interests It was so classed by Aristotle Since the time of the Greek states the most notable oligarchy has been the republic of  $\nabla$ enice

Oligocene System Geological term for the second division of the Cainozolc or Tertiary period following the Eocene system In England these strata form an estuarine series in the Hampshire Basin and are seen well on the coast of the Isle of Wight The system is divided into four subdivisions the Hampshire is divided into four subdivisions, the Hamstead, Bembridge, Osborne and Headon Beds, con sisting of marks clave and limestones containing marine, estuarine freshwater and land fossils Oligocene beds are widely distributed over central and southern Europe

Olive Small evergreen tree typical of the olive order (Olea europaea) Culti vated in antiquity, it abounds in the Mediter ranean region and flourishes also in Australia, California and S Africa Its small fleshy berry, when unripe is pickled or salted. The ripe pericarp yields under pressure 60 70 per cent of an edible oil which replaces in S Europe butter and animal fats and is used farther north for salads and various culinary and medicinal purposes Inferior grades serve for soappurposes making

Olives Mount of Limestone ridge E of Jerusalem Rising about 300 ft. above the city beyond the Kidron valley, it was closely associated with the final scenes of Our Lord 8 West Constant of Our Lord s life On one of its four summits

scene of the Ascension See GETHSEMANE. KIDRON

Town of Nottinghamshire Ollerton is 9 m from Mansfield and 139 from London by the LNE Rly and adjoins

Sherwood Forest
Olney Town of Buckinghamshire It
Lindon on the Unse, 60 m from
London on the LMS Riv. The place is known for its associations with Cowper

Olympia Religious centre of ancient Greece famous as the scene of the Olympic games. It stands on the banks of the Alpheus in the Peloponnese The modern Olympia is a place of amusement in London It is in Addison Road, Hammersmith and is used for exhibitions of all kinds There Captain Bertram Mills has his annual circus and the Naval and Military Tournament is also held here

Olympiad A period of four years, in Greek chronology, used for dating for literary purposes The four years were reckoned between celebrations of the Olympic games the first Olympiad beginning in 776 B c and the last A D 394 Fimeaus of Sicily was the first writer to start using this system, about 264 B c

Olympic Games Athletic contests held at Olympia in Greece in ancient times The festival took place every four years and had a religious basis. Candidates were tested at Elis and had to train Candidates were tested at Ells and had to train for some ten months. The games were open to competitors from all Greece, and the contests included charlot racing horse racing, running, wrestling, boxing, and the pentathlon, a contest involving jumping, quoit throwing, aveiln throwing, running and wrestling. The list of Olympic victors goes back to 776 B C, and the closeful games consed to be held and the classical games ceased to be held probably about A D 393

To the Baron de Coubertin a Frenchman, who organised the Games at London in 1908, much of the credit is due for these four yearly contests They represent a revival of the old Greek games were first held at Athens in 1896 and have been restaged every four years since save for a break occasioned by the war. Those in 1928 were held at Amsterdam and those of 1932 at Los Angeles, while the 1936 Games will be held at Berlin The United States are the

most successful country

Olympus Name of a mountain range in Greece It separates Thessaly from Macedonia and the highest point riscs to about 10,000 ft Olympus is famous in Greek legend and literature

Omagh Market town and urban district of Co Tyrone, Northern Ireland also the county town It is 34 m from London derry The industries are flour mills and linen factories Pop (1926) 5124

Omaha City of Nebrasko, USA On the Missouri River, it is an important railway centre Here are railway works of the UP Rly, and other engineering and machinery works Smelting and refining is carried on extensively and there are many manufacturing industries South formerly a separate city, and united to Omaha in 1915, has large meat canning works Pop (1930) 214,006 Omaha.

Oman State of Arabia. It lies on the narrow strip of maritime land, bordering on the Persian Gulf the Gulf of Ormuz and the he wept over Jerusalem some part of it, the Persian Gulf the Gulf of Ormuz and the probably not the traditional summit, was the Arabian Sea. The total coast-line is 900 m

in length with an area of 82,000 sq m sultan Salvid Talmur rules over a population of 550,000. The chief port and capital is

Muscat (q v)

Muscat (q v)

Omar a follower of the prophet, and in 634 was chosen caliph in succession to Abu Bekr He held the position until his murder in 644 and continued the policy of conversion by force, conquering Palestine, Syria and Egypt He was called the commander of the faithful the was called the was called the commander of the faithful the was called the was called the commander of the faithful the was called the was called

Omar Khayyam Persian mathema-and poet He was the son of a tent maker (Khayyam) At the order of the Sultan, he reformed the Moslem calendar His treatise reformed the Moslem calendar on Algebra made him famous as a mathe-matician even in the Western world He died and 1123

died a D 1123
In Europe he was unknown as a poet until
1859, when Edward Fitzgerald (qv) translated
several of his "Rubaivát" or quatrains
The beauty of the "translation" is to be
attributed more to the genius of Fitzgerald
than to the original Persian
Omdurman Town of Egypt It is situOmdurman ated on the Nile opposite
Khartoum in the Sudan Here on Sept 2,
1898 hitcheuer at the head of an Angle.

Khartoum in the Sudan Here on Sept 2, 1898, kitchener, at the head of an Anglo-Egyptian force defeated the Dervishes and avenged the death of General Gordon (v) Omnibus veyance first introduced into London in 1829 by Shillibeer Previous to this, stage coaches had been employed for some time for conveving passengers, and in Paris three-horse public coaches had been popular for many years Shillibeer's omnibuses carried 22 persons inside, and were drawn by three horses, but in 1849 smaller vehicles were three horses, but in 1849 smaller vehicles were introduced followed by roof accommodation in 1857 Further developments came with the formation of the London General Omnibus Company Un ler the London Passenger Trans-Company

port Act (1933), Omnibuses, with tramways, tuboways, ct., were transferred to the London Passenger Transport Board.

Omsk Town of West Siberia It stands Omsk Town of West Siberia It stands at the junction of the Irtish and Om rivers, and is 265 m from Akmolinsk, on the Trans-Siberian Railway

on the Trans-Siberian Ransway

Onager Name of soveral races of wild
ass ranging from Syria Arabia
and Persia to Baluchistan and N W India
(Equus onager) Standing 11 hands high, sandy
or chestnut-coloured and broadly striped along the back, they are remarkably fleet-footed,

being seldom run down by horsemen.

Onega Lake of Russia The lake covers

Same and is the largest in

Europe save only Ladoga It is 150 m long Its waters are carried to Lake Ladega and it is connected by means of canals with both the White and the Baltic Seas

White and the Baltic Seas

Onega River of North Russia It rises
Onega in Lake Ladoga and flows N E and
N W to the Gulf of Onega, on the south of the
White Sea. It is about 240 m long The town
of Onega is at the mouth of the river, on the
bay of the same name, \$4 m S W of Archangel
O'Neill Ancient Irish family They were
Nine Hostages, who were Lords of Tyrone and
the hereditary enemies of the O'Donnells of
Tyronell Con O'Neill (1484-1559) was a
warlike chieftain who, on making submission
to Henry VIII in 1542, was made Earl of
Tyrone Shane O'Neill, born about 1530, the
eldest leg'timate son of Con, was second earl,

and nominally paid allegiance to Elizabeth, but fought against the Scots, and continually against the O'Donnells He died in 1567

Hugh O'Neill, the son of an illegitamate son

of Con, born about 1540, succeeded to the title in 1587, but intrigued with the Irish rebels and with Spain against Elizabeth He was defeated

with Spain against Elizabeth He was deleated at Kinsale, and made submission, but later intrigued against James I with Spain, and in 1607 fied to Rome, and died there in 1616 Owen Roe O'Neill, born about 1590, went to Spain, and fought in the Spanish army with distinction, later coming to Ireland in 1642, when he fought against Scotland and England with great success, until his death in 1649

Phelim O'Neill was the leader of the insurrection against the English and Scots settlers

surrection against the English and Scots settlers in Ulster, in which occurred the Ulster massacre

of 1641

Eugene Gladstone American dramatist. Born in New York, American O'Neill Oct 16, 1888, he tried commerce, the sea and other callings before he began to write went to Harvard University, 1914-1915, and in 1916 spent the summer at Provincetown, where he met the group who produced nearly all his short plays. He rapidly became the most famous of the respect American draws. most famous of the younger American dramatists He has written, Beyond the Horizon (1920), Anna Christie (1922), Emperor Jones (1922), The Harry Ape (1922), The Great God Brown (1926), and Strange Interlude (1928), amongst Days Without End was produced in otners London in 1935

Thousand Guineas

English horse race It is an event of the Newmarket spring meeting, and is open to threeyear old fillies

Ongar Market town of Essex, known of is 23 m from London by the L N E Rly, and is situated on the Roding Pop 10,140

Onion the Roding Pop 10,140

Onion the lily order (allum cepa) It is now widely grown for cullnary purposes, usually raised annually from seed Some forms are produced for pickling, some for storing The potato onion is a variety throwing out literal bulbs developed underground The Welsh, a bulbless form of Siberian origin introduced into mediaeval Europe, is grown for spring salads See Leek, Shallor

Ontario Lake of North America. One smallest of the five, covering 7250 sq m It is also the most easterly and the lowest of the five The waters of Lake Lrie are brought to it by the Niagara River and the Trent, Oswego and other rivers enter it Its waters go to the St. Lawrence Canals connect it with the important waterways of Canada and the go to the St. Lawrence Canals connect it with the important waterways of Canada and the United States The lake is 185 m long, its northern shores are Canadian, and its southern, American On the former are Toronto, Hamilton, Kingston, Oshawa and some smaller ports On the latter are Oswego and Charlottc.

Gold is the most fruit, tomatoes and tobacco valuable metal mined, and the province pro duces silver and copper in large quantities and dominates the world's market for nickel also found. There are very large Petrol is also found timber resources. Plentiful electric power is obtained from Niagara and other natural sources. Toronto on Lake Ontario is the capital of the Province Ottowa is the Dominion capital, London and Hamilton are the chief towns

Pop 3,426,488 Champlain (q v) was the first European to visit Ontario, followed by Jesuit missionaries and fur traders It became British in 1763 and in 1774 became part of the province of Quebec 1792, however, it was separated from ebec, becoming the province of Upper Canada with its own legislature. John Graves Simcoo (q v) was the first governor Little development took place until after the war of 1812, when the Americans took and burned the 1812, when the Americans took and burned the capital, York (now Toronto) Following a rebellion in 1837 38, it was once again united with Quebec under a common parliament in 1842 remaining thus till the achievement of Confederation in 1867 Since then the province has been governed by its own legislature of 112 members under a lieutenant-governor, accieted by an executive council. assisted by an executive council

Ontology Name given to a branch of metaphysics dealing with the nature and principles of pure being and the essence of things, or, as defined by Hegel, the doctrine of the abstract characteristics of being The different problems of ontology are concerned with such theories as those of

monism, dualism and pluralism.

Onyx Name given to certain kinds of agate in which there is a parallel banded structure, the milky white layers alternating with dark or coloured chalcedony Owing to this structure onyx is used for cameos, the white later being cut in relief upon the darker material In the sardonyx the coloured bands are red, consisting of carnellan or sard

Onyx marble is a stalagmitic form of marble from Mexico, S America and Algeria, used as

an ornamental stone

Oolite Geological term for the upper and middle divisions of the Jurassic system. The Oolite consists of hard limestones alternating with sands, sandstones and cal careous clays and containing chiefly marine fossils. It is divided into Upper, Middle and Lower Collic, which stretch across central England from Dorset to Yorkshire, and yield many important building stones such as the Portland, Purbeck and Bath stones

Name given to a specialised branch of ornithology dealing Oology with the study of the eggs of birds especially with regard to the methods of collection, also the study of their shapes markings and colouration, characters which are of import ance as a means of identification

Name given to organic deposits Ooze occurring on the floor of the ocean basins An ooze is almost entirely composed of the remains of minute organisms and is more plastic and coherent than muds The best known of the oozes is the globligerina ooze of the Atlantic Ocean, consisting of the remains of foraminifera

Mineral consisting of hydrated silica and occurring in non-crystal line form as layers nodules, stalactitic masses or filling cavities in rocks It has a greasy lustre and hardness fower than that of quartz, while the colour of common opal is bluish white, milky or yellowish In the precious opals there is a remarkable play of colours due to reflection and diffraction of light from thin laminac

Opera Virtually drama set to music After early picheer attempts, the Eurodice of Peri (1600) must be considered as the forerunner of opera Early writers of opera were mainly German and Italian as for example Mozart, Montoverde and Rossini, but France owes its carlier operas to Méhil with Wagner (q v) the opera actually became a distinct genre of music, and those to follow this more dramatic style were Biret (Carmen), Strauss and Débussy (Pclleas) To Sir Thomas Beecham's efforts to put it on a firm footing we owe the presentation of works by Dame Ethel Smyth Vaughan Williams Holst. Ethel Smyth Vaughan Williams Holst, Boughton and Delius Other modern writers of opera include Stravinsky and Puccini The various forms of opera include Recitative introductory) (often Opera Buffa (Italian comic opera with recitative), comic opera and grand opera where every word is sung

Ophir Country mentioned in the Old Testament It was famous for its gold which was brought to Jerusalem in the time of Solomon It was probably in Africa

Ophthalmia Inflammation of the eye, usually the mucous mem brane in front of the eyeball and inside the lids. New born babes are liable to purulent ophth almia sometimes epidemic metimes epidemic among school Sympathetic ophthalmia is in children | flammation of one eye consequent on disease or injury of the other

Ophthalmoscope Instrument introduced by Helmholtz in 1851 for examining the interior of the eye by means of reflected light There are several forms, but the one commonly used consists of a small concave mirror of 10 ins focus, pierced with a central hole, and having a series of lenses attached

Opium Narcotic drug consisting of the of the walls of the unripe capsules of the white poppy (Papaver somnferum) The latex which rapidly congulates, is scraped off and dried in the sun, forming dark brown masses Oplum contains the alkaloids morphine, codeine, narcotine and narcoine each of which is used in medicine as a sodative The opium poppy is grown in Asia Minor, Persia India and In 1928, an international convention came into force to suppress the illicit traffic in oplum and other narcotic drugs From 1935 exports from India were greatly restricted by the Government

When eaten or smoked as a narcotic, the first effect of opium is a pleasant stimulation of the effect of opium is a picusant stimulation of the mental activity, followed by sleep. The after-effects are unpleasant and harmful and the opium habit, once acquired, is very difficult to relinquish. The opium produced in India and relinquish The oplum produced in India and consumed in China formerly provided one of the main sources of Indian revenue

Oporto Scaport of Portugal On the north bank of the Douro, it is 209 m from Lisbon by rail Oporto is the Oporto is the centre of the port wine trade, and is also a great manufacturing district, producing tex-tiles, paper and pottery There are tunner ics, distilleries and sugar refineries. The hipping is handled by the harbour at Leixoes, our miles north Pop (1930) 232,380

Opossum Family of American marsu-central and S America except the largest, the cat sized Virginian opossum, which ranges northwards The pouch is sometimes rudi-mentary or waiting, the tail often long, scalv and prehensile They are nocturnal and arboreal, except the web-footed yapok or water-possum. Australian phalangers are water-opossum also called opossums

Optician Name of a trade concerned with the manufacture and sale of lenses and optical instruments such as telescopes, microscopes, spectacles, etc, also one branch of the trade which specialises in the testing of evesight and prescribing suitable spectacles. The work presupposes a training spectacies. The work presupposes a training in the principles of optics and the practical application of the science especially in the cutting and grinding of lenses. For sight testing a knowledge is required of refraction in relation to eyesight, and the methods adopted to overcome errors of refraction.

Optics Term applied to the science of light and the principles under lying the various phenomena of light and vision. The science is divided into two main divisions, physical and geometrical optics in physical optics a study is made of the nature of light and the phenomena of science are fight. of light and the phenomena of colour, refraction, of light and the phenomena of colour, retraction, reflection, interference, diffraction and polarisation, while geometrical or mathematical optics is concerned with the laws governing these phenomena, the formation of images and the principles underlying lenses, ctc. The Greeks and later the Arabs were conversant with the laws of reflection, but the science did not assume its present form until the days of Kepler, Newton and Huyghens

Optophone Name given to an instrument invented by Fournier D'Albe for changing light rays into their equivalent sounds for use by the blind it reading books. The instrument consists essentially the sounds of the constant of the contraction o Name given to an intially of a revolving disc having eight holes proportional to the vibrations of the notes of an octave Light directed upon the printed page is interrupted and passes through the apertures of the disc on to a sclenium tablet connected with a telephone receiver, each letter being heard with a characteristic sound

Oracle Response, supposedly divine, given by an inspired priest or priestess to the inquiry of a votary, or the sacred place of utterance itself. As a ritual of divination, oracles profoundly influenced public life in ancient Greece, the most renowned being those of Zeus at Dodona and Apollo at Delphi At the latter the attendant priests communicated in hexameter verses the utterances of a young woman seated on a tripod over a cave from which a vapour arose from which a vapour arose

Oran Scapert of Algeria. It is on the Gulf of Oran, 260 m. from Algiers by railwar A naval station, it is the capital of the department of Oran Wine and grain are

Netherlands and were known as the House of Orange-Nassau William the Silent and his descendant who became William III of Great Britain belonged to this family Another branch is now represented by the Queen of the Netherlands

Fruit of an evergreen tree (Citrus Orange aurantıum) Emanating from the Indo-Chinese peninsula, and oultivated in ancient India, Arabs introduced it into S V Asia before the 9th century, and thence into Spain Its introduction from the Levant into 15th century Italy preceded its importation direct from the East into 16th century Portugal the Mediterranean region, including S Africa, the W Indies, Florida, California and Australia The sweet or China orange occurs in many forms, including Malta blood-oranges and flattened this realest and second control of the contro flattened thin peeled mandarins and tangerines It is a valuable food, being rich in mineral salts and vitamins A, B, and especially C See CITRUS

Orange Town of New South Wales. Sydney, and is the centre of a district where wheat and fruit are grown Pop (1931) 8640

Orange River of South Africa known also as Garlep or Groote River Rising in the Drakensberg Range, Basutoland, it flows 1300 m to the Atlantic, which it reaches 45 m N W of Port Nolloth Its principal tributary is the Caledon, about 200 m long During part of its course, the Orange River constitutes the north boundary of Cape Province

Orange Free State Province of the Union of South Africa. It has an area of 49,647 sq m, and joins Cape Province on its West and South borders, Natal and Basutoland on the East, and the Transvaal on the North Bloemfontein is the capital (Eur pop, 1931, 28,406) East, and the Transvaal on the North Bloemfontein is the capital (Eur pop, 1931, 28,496) The province has a pop of 628,900. Eur pop (1931) 205,324 The Cape to Cairo Railway runs through the province in 1809 the Orange Free State joined with the Transvaal in the war against Great Britain Annexed by the latter in 1900, and named the Orange River Colony, in 1910 it entered the Union of South Africa and resumed its earlier name, which dated from the proclamation of an independent republic in 1854, when British sovereignty terminated.

Orange Society Irish political so-1795, the first lodge was formed at Armagn, and the movement spread rapidly, gaining adherents in England and elsewhere. The professed objects were the defence of the Protestant faith and succession. The society was named after William III It drew upon itself Parliamentary action at different times See IRELAND

Orang-Utang Malay name, "man of the woods," of the reddish-brown manlike ape of Borneo and Sumatra railwar A naval station, it is the capital of the department of Oran Wine and grain are exported, and the production of esparto grass, a raw material of paper manufacture, is important. Cattle and minerals are shipped, also hides and cork. Pop (1931) 163,743

Orange French family settled in the Netherlands It takes its name from the town of Orange which was the capital of a little state. In 1500 this came to a member of the family of Nassau who had lands in the Oratorians Familiar term applied to gations of the Oratory That of S Philip Nerl, founded in a hall or oratory in Rome, in 1564, received papal sanction in 1575 It comprises simple priests under no vows J H Newman, becoming an Oratorian in Rome founded in England the Edgbaston Oratory 1847 the Brompton Oratory, with F W Faber as first rector, followed The Oratory of our Lord Jesus Christ, founded by Cardinal de Berulle in Paris, 1611, was overthrown at the Revolution another arose 1862

Orator10 Sacred counterpart to secular by S Philip Neri, and used in his Little Oratorv about 1574, oratorio was a dramatic representation of sacred history (with scenery and costumes) used as a devotional exercise The oldest surviving Italian example is Cava liter's "The Soul and the Body of 1600 In Germany, as a congregational devotion oratorio survived and flourished after the Reformation Schulz's 'The Resurrection' in 1585 founded a tradition which culminated in the mesterpleces of Bach Bach's Christ mas Oratorio" and "Passion Music' dispensing with theatrical properties, combined solos, chorus, double chorus, orchestra and congregation into a musical and devotional whole With Handel began the era of oratorio as a musical entertainment. Handel, Haydn Mendelssohn and Elgar are the greatest composers in this form

Orbit Term used in astronomy to denote the path of a celestial body in the heavens, as for example, the earth s whose annual orbit round the sun is elliptical in form

In zoology the term orbit is applied to the bony cavity containing the eye in vertebrate animals and arched over above the skull In some mammals the orbit is enclosed completely by bones as in the primates, but in other types the back of the cavity is less ossified.

Orchardson Sir William Quiller Scottish painter Born at Edinburgh, March 27, 1832, his work was exceptionally quiet in colour, and it was some time before he became popular Among his more popular works are, 'On Board H M S Bellerophon'' (1880), (In the Tate Gallery) "Mariage de Convenance (1884), "After "(1886), and 'The Young Duke'' (1889) He was elected A R A in 1868, R A in 1877, and knighted in 1907 He died April 13, 1910

Orchestra Term applied originally to the central circular space in the ancient Greek theatre and used for dancing by the chorus Later the orchestra became semi-circular and in Roman theatres, choric dancing being no longer in fashion, it was merged into the stage In more modern times the term has become applied to the band of musicians

Orchid Herb of an extensive natural order of plants with one seed leaf growing in all climates except the very cold Orchids comprise many genera, with 5000 species some terrestrial, with fieshy or tuberous roots, some growing on other plants with pseudo bulbs Many, perhaps all have a specific partner fungus or mycorrhiza essen tial to the orchid's growth The one or more flowers have perianths of six coloured segments, that forming the lip being sometimes spurred Transfer of pollen by insects from one plant

to another for cross fertilisation is secured by various ingenious mechanisms About 40 species are British including the bee orchist twayblade, and lady's slipper Sec Vayilla

Orczy Baroness Emmusca Pen name of Mrs Montagu Barstow, novellst and playwright Born at Tarnaðrs in Hungary, she was educated at Brussels and Parls and began writing in 1900 with The Old Man in the Corner, a series of detective stories In 1905 she wrote The Scarlet Pimpernel Two other plays appeared in 1910 and 1918, Beau Brocade and The Legion of Honour She is the author of numerous novels, several being sequels to The Scarlet Pimpernel, which has been dramatised

Ordeal Form of trial for detecting guilt or innecence In primitive culture an aspect of divination administered under priestly direction and relying upon Providence, mediaeval Europe called it the judgment of God Tests of innecence by ordeal are exem plified in Num v and incidentally in Dan iii Early England recognised ordeals by hot iron boiling water plunging into a stream to sink or swim, consecrated bread and personal combat Trial by ordeal ceased in 1218, except by combat, which lasted until 1818

Order-in-Council In Great Britain and other parts of the British Empire an order issued by the sovereign on the advice of the Privy Council They were first used in the 18th century, and are of two kinds Some are issued when great urgency is essential, as during a war or a general strike, when there is not time to pass legislation through Parliament. More usually they are issued to carry out the details of legislation Acts are often passed giving powers to ministers to do certain things for instance, raise the school age or prohibit the export of old horses by Order in Council

Ordinance Decree or order that is not strictly speaking a law such were issued by the kings of France, and in England in the time of Charles I the Long Parliament passed the Self Denying Ordinance These ordinances, although not fully laws, had the force of law

Ordination Ecclesiastical ceremony It is the special service for the setting apart of Christian ministers to their life work. In the Greek, Roman and Anglican churches the rite is carried out by a bishop and is regarded by the two former as sacramental In the Free Churches it is administered by one or a number of senior ministers. In each case ordination is by laying on of hands in conformity with the New Testament (Acts vi, 17, xili, 1-4)

Ordnance General term for all kinds of cannon or other forms of frearms (other than small arms) and their ammunition. It was used originally to include the organisation as well as the equipment of artillery and its staff. The ordnance department in the army is charged with the provision, care and distribution of military stores, arms and ammunition as well as the miscellaneous equipment of the army. For the training of officers for these duties there is an Ordnance College at Woolwich. A similar Ordnance Department is established for naval purposes to provide and maintain armaments for ships

Officers for these duties there is an Ordnance College at Woolwich A similar Ordnance Department is established for naval purposes to provide and maintain armaments for ships.

The Ordnance Survey is a topographical survey of Great Britain for the preparation of official maps of the country, and is carried out by the Royal Engineers, with headquarters

at Southampton The original maps were on a scale of 1 in to the mile, but later a 6 in survey was started, followed by maps on a scale of 6 ins and 25 ins, also 5 ft and 10 ft to the mile The maps in most general use are on the 1 in scale and are issued in 3 forms showing the contours, etc., either uncoloured, or in relief and hatchings in colour

Ordovician Word used by geologists Ordovician for a formation in the earth's crust between the Cambrian and the Upper Silurian Found in Europe, Asia, and the Americas, it contains iron, lead, silver and other minerals, as well as the fossils of the less developed forms of life and of fights. developed forms of life and of fishes. The stones found include shales, limestones, grits and slates The formation is best seen in Wales where it is in three divisions known as Arenig Liandello and Bala

Ore Term used in mining for mineral deposits containing metals in sufficient quantity for profitable extraction Metals occur in ores as oxides, sulphides, carbonates, silicates, etc., and in a few in the metallic state, such as gold, platinum, iridium, silver, mercury and copper Ores occur either in veins or lodes, beds, irregular masses or pockets, or superficial deposits, and before they are ready for smelting or other methods of extraction, they usually undergo considerable treatment or "ore dressing" See Lode

Ore Coin of Norway, Sweden and Denmark It is a one-hundredth part of the krone and is coined in both bronze and silver, the silver coins being 5, 10, 25 and 50 ore pieces

Oregon State of the USA On the Pacific coast, it is 96,699 sq m in area West of the Cascade Range is a fertile valley region drained by the Williamette, Rogue and Umpqua Rivers, and separated from the Ocean by a coastal range East of the Cascade Range is a prairie region with many peaks Other rivers are the Snake (E) and Columbia (N) constituting the frontiers to some extent. extent. Agriculture, cattle raising, lumbering and fisheries are the main industries, and mineral deposits comprise coal, iron, copper, silver, nickel and gold The capital is Salem, and the principal commercial city Portland, both on the Williamette River Pop (1930) 953,786

Orestes In Greek legend, son of Ara-memnon and Clyta-emnestra When his father, returned from the Trojan War, was murdered by his mother and her paramour Aegisthus, Orestes' nuse, or his sister Electra, saved him from a like father Returning to revenge his father's death, he escaped to the Tauric Chersonese with his friend Pylades to seize the heaven-sent statue of Artenis. They were chiprocoloid but trave of Artemis They were shipwrecked, but were saved by his sister Iphigenia (q v) He is the saved by his sister Iphigenia (q v) He is there of tragedies by Aeschylus and Euripides

Orford Village of Suffolk. It is near the const, 20 m from Ipswich An object of interest is the ruined Norman costle

object of interest is the ruined Norman castle Orford Ness is a cape on the coast nearby with a lighthouse.

The title of Earl of Orford was borne by the family of Walpole and earlier by the family of Russell In 1697 the sallor, Edward Russell, was made Earl of Orford but the title became extinct when he died in 1727 In 1742 Sir Robert Walpole was made Earl of Orford, but the title again became extinct when his noted son Horace, died in 1797 In 1806 Horatio. 50n Horaco, died in 1797 In 1806 Horatio, Baron Walpole, a kinsman, was created Earl of Orford The carldom became extinct in 1931

Organ Complex musical instrument Originally a syrinx, the early organ became "a box of whistles" consisting variously, or in combination, of stopped, open and reed pipes, and later adding a wind chest. It was played by the lips and breath of one performer Next came the pneumatic or hydraulic organ with bellows worked by hand or by the weight of boy assistants. Its pipes were of copper. The first key boards were really systems of levers which were struck with the fists or forearms of the player Present day pedals and reed pipes first appeared in the 15th century Modern organs consist of (1) Pipes (flue and reed), (2) Bellows, wind-trunks and wind chest, (3) The Console (including manuals, pedals, stops, swell pedal, great swell, choir, solo, echo, couplers and accessories), (4) The Action (comprising the tracher, pneumatic, electric and connecting mechanisms)

To modern cinema organs are added stops registering orchestral and naturalistic effects

Architectural term applied to a bay window in a Tudor or Gothic bay window in a Tudor or Gothic building, either on the ground floor or projecting from an upper floor, in this case supported on corbels Many examples of oriel windows are seen in manor houses of the Tudor period and at Christ's College, Cambridge

Oriel College, Oxford, takes its name from a tenement, La Oriole, granted to the college in

1327

Orient Region where the sun rises, ie, specifically the geographical region E and S E of Europe, including Turkey, Persia, India and China, whose inhabitants are collectively called Orientals

Orientation Setting of a building or person with reference to the compass points It refers especially to the placing, at the E end, the main entrance, as in ancient Greek and other temples, or of the altar as in various Christian churches after the 6th century

Origen Greek father of the church Born at Alexandria, of Christian parentage about AD 185, he himself taught in the catechetical schools at 18 His learning was such, especially on the philosophical side, that he influenced the course of church history for centuries, formulating its dogmas and founding Biblical criticism. He suffered at intervals during the imperial persecutions, and died at Tyre about 254. His works include Hexapla, the first polyglot of the Old Testament, and a defence of Christianity against Celsius

Original Sin Corruption of man's Adam's fall This doctrine, generally accepted in 5th century Western Christianity under S Augustino's guidance, asserted the need of baptism for remission of sins, and of divine grace for attaining goodness. It was confirmed by the Council of Trent Actual Sin is defined us the individual's voluntary act. See SIN

Orillia Town of Ontario, Canada On Lake Coucliching, 86 m from Toronto, it is a summer resort. There are foundries, motor vehicle works, and an important industry is the manufacture of agri-ultural implements Pop 7700

Orinoco River of Venezuela Rising in the Parima Mts on the Brazilian border, it flows round the range, and thence Last to the Atlantic, following a course of about 1500 m and reaching the sea nea-

- \*\* × ,

Trinidad A tributary, the Cassiquiare, communicates with Rio Negro, a tributary of the Amazon Other rivers entering the Orlacca are the Apure, Guaviare and Mota. Between the two last are the falls of Maipures and Atures

Oriole Family of perching birds, natives of the Old World The golden oriole Oriolus plunage and black wings and tail is a regular spring visitant to Britain, formerly breeding there it now breeds in Europe and S W Asia, spending the northern winter in S

Orion In Greek mythology, a handsome giant and hunter Clearing Chios of wild beasts for its king, Oenopion whose daughter he desired he was inebriated and blinded, regaining his sight when confronting the rising sun. He was slain hunting in Crete in company with Artemis, and became the constellation bearing his name This, men though in the Old Testament, is a conspicuous constellation near the equinoctial line, containing, among others, three brilliant stars forming Orion s belt, and a majestic nebula

Orkneys Group of Islands forming a county of Scotland Separated from the mainland by the Pentland Firth they number 68, with a total area of about 370 sq m Less than half are inhabited. The largest is Pomona, on which are the capital Kirkwall, and Stromness The most important Islands in the group are Hoy (parted from Pomona by Scapa Flow), N and S Ronaldshay, Flotta, Stronsay, Rousay, Westray Shapinsay, Eday and San day Fishing and agriculture are the chief pursuits Pop (1931) 22,075

Orlando Vittorio Emmanuele Italian 19, 1860 he became Professor of Constitutional Law at Palermo, and in 1916 was Minister of the Interior He was criticised for his lenience with pacific agitators, and changed his policy In 1917 he succeeded Boselli as Premier, and raised Italy to a pitch of high enthusiasm and strong resistance, in spite of the disastrous defeat of General Cadorna at Caporetto He was one of the "Big Four" at the Paris Peace Conference in 1919, and seceded from it on the Flume question, but returned with a compromise, and helped with the Yugo slavian question On the growth of Fascism, he retired from politics

slavian question on the beautiful of the control of the control of the control of the control of the cathedral (begun in 1601) is one of the noblest Gothic edifices in the country. In May, 1429, Joan of Arc defoated the English under the Duke of Bedford and raised the siege of the town Her house may still be seen there as well as three different statues of the heroine. Orleans manufactures hostery, cotton etc., and receives some commercial importance from the canal which joins the Loire and the Seine. Its Roman name was Civitas Aurelian. Pop. (1931) 71 606

Orleans of French noble family of royal blood. The title Duke name of Ahu conferred it on his natural son Phillip VI, who conferred it on his natural son Phillip in 1344 On the accession of the third Duke to the throne in 1498 as Louis XII the title lapsed It was next held by Jean Baptiste Gaston, a son of Henry IV who received it from his brother Louis XIII in 1626 On his death it was not relived till Louis XIV conferred the

dukedom on his brother Philippe in 1660
The latter's grandson, of the same name, who succeeded to the title, was regent of France during the minority of Louis XV Louis Philippe Joseph (1747-93) a man of liberal views, acquired in England through his friend ship with the Prince of Wales (afterwards George IV), joined the the test at the head of the secoding noblemen but perished by the guillotine Henri (1867-1901) was a distinguished traveller and explorer Louis Philippe Robert (1869 1926) was born in England and served with the British army in India

Orme's Head Great Rocky promon Caernarvonshire It is 679 ft high and the top is reached by a cable tramvay A marine drive has been constructed round the cliffs. On the hill are S Tudnos church, a 15th century building, and a lighthouse

On the other side of Llandudno is Little

Orme's Head, famous for its caves

Ormolu Name given to an alloy resembling gold in colour and composed of copper tin and zinc the first metal predominating. It is used for making statuettes and clocks, also as a metal base for a form of champlere enamel work. The name ormolu is sometimes used as a general term for bronzed articles.

Ormonde Duke of Irish title held by the family of Butler James Butler was born in 1610 and succeeded to the earldom of Ormonde in 1632 He distinguished himself in the service of Charles I, and was rewarded with the ducal title of Ormonde at the Restoration Colonel Blood tried to take his life in 1679, but he escaped, and lived until 1688 James Butler, second Duke of Ormonde, grandson of the above, was born in Dublin in 1665 He commanded William's life-guards at the Battle of the Boyne, and in 1702 commanded the troops in Rooke sexpedition to Cadlz. He was Lord Lieutenant of Ireland in 1703 and in 1711, commander-in chief against France and Spain Impeached in 1715 for high treason against George I, his estates were attainted, and he spent the rest of his life in France intriguing for the Pretender, until his death in 1746

Ormskirk Market town and urban NE of Liverpool and 209 from London by the LMS Rly Its industries include the making of gingerbread and market gardening Pop (1931) 17,121

Ormuz Name of the strait that connects the Persian Gulf with the Gulf of Oman also the name of an island in the strait. In the 4th century a city was founded on this island and became very prosperous as the meeting place of great trade routes in 1515 the Portuguese took it and in 1622 it was seized by the Persians aided by an English force about this time its importance declined and it no longer exists

and it no longer exists

Ormuzd Aryan deity In the teaching of Zoroaster, this god under the name of Ahura Mazda is regarded as the principle of good in opposition to Ahriman (qv) the principle of cvil The dualism is only apparent for the final victory of Mazdan over the forces of cvil is assured 'Zoroaster, says Dean Ingo 'is to all intents and purposes a monothelist'

Ornithology Systematic study and knowledge of birds (q v)

It deals with the classification of birds, their habits, migrations, economic uses, etc Societies devoted to the study or culture of birds include the American Ornithologists' Union, Washington, D.C., the British Ornithologists' Union, London, and the Avicultural Society, London These publish quarterly or monthly journals There are also societies for the protection of birds, provision of bird sanctuaries etc.

Ornithorhynchus Generic name of the duck-billed platypus or water-mole, a mammal restricted to S and E Australia and Tasmania It forms with the cehidna (g v) the lowermost mammalian order, distinguished by having a single outlet for both solid and liquid excretions, as in birds Although it is usually described as egg-laying, some authorities described as egg-laying, some authorities question whether the eggs are hatched within or without the body of the female See Duck-BILL

Orontes River of North Syria Other names are Axios and Nahrel Asi Rising in the Anti-Lebanon, it flows 250 m. to the Mediterranean, passing near Antioch and entering the sea 40 m N of Latakia

Orpen in County Dublin, Nov 27, 1878, he was educated at Dublin Metropolitan School of Art and the Slade School He was President of the International Society and several other Art Societies During the Great War he was appointed an official artist, and in 1918 he held a great exhibition of his war pictures, many of which he presented to the nation Elected A R A in 1910 and R A in 1919, he was perhaps best known as a portrait painter was perhaps best known as a portrait painter He wrote An Onlooker in France (1921) and Stories of Old Ireland and Myself (1924) He died Sept 29, 1931

Orpheus In Greek legend, son of Orpheus Ocagrus, King of Thrace, and the muse Calliope He plaved so exquisitely upon a lyre presented by Apollo as to charm all Nature He accompanied the Argonauts on their quest of the Golden Fleece wedded the nymph Eurvidice, and followed her to Hades, but failed to bring her back to earth His constancy to her memory so angered the Thracian women that they slew him His lyre, carried to heaven, was placed among the stars carried to heaven, was placed among the stars

Orpington District of Kent. It is 9 m. from Sevenoaks and 54 m on the S Riv It is a fruitgrowing district. Pop 7047

Orplington lowls were originated by W Cook, and are excellent utility birds, big in frame, good lavers and sitters, and good table birds. The varieties are white, black buff, springled, The varieties are white, black buff, spangled, blue, cuckoo and jubilee Sec Poultry. Ser POULTRI.

Orrell Urban district of Lancashire A centre of the cotton industry, it is 3 m from Wigan and 199 from London, by the LMS Rly Pop (1931) 6957

Orris-Root Rhizome, or underground stem, of various species of irls which when dried has a delicate violet like smell. It furnishes so-called essence of violets. smell It furnishes so-called essence of violets, violet-nowder," and some scented dentifrices, it has medicinal and breath-sweetening uses also

it has medicinal and breath-sweetening uses also Exported from N. Italy and Mogador, the best comes from the Florentine iris

Orsay Comte d' French dandy The son Orsay of General d'Orsay, he was born at Parls in 1801, and was for 20 years the intimate friend of Lady Blessington, the English author, and friend of Lord Byron An authority on fashion and a brilliant conversationalist, he

also showed talent as a painter and sculptor He was a friend of Louis Napoleon (Napoleon III) who made him Director of the Beaux Arts at Paris before his death in 1852

Orthoclase Mineralogical name for rock forming mineral consisting of silicate of eluminium and potassium It occurs in mono clinic prisms of a lustrous white, grey or reddish colour in granites and other crystalline igneous rocks Its pearly variety, moonstone and the spangled variety, sunstone, are cut en cabochon for use as gem stones

Orthodoxy Term meaning "right opinion" It denotes soundness of belief, especially religious It involves the formulation of a standard generally recently protected and protected the standard generally recently protected the standard generally recently researched. ally accepted Protestant orthodoxy is deemed heterodox by Roman Catholics The Eastern Church claims the title of Holy Orthodox Protestant orthodoxy is deemed Roman Catholics The Eastern Apostolio Church

Orthography Art or practice of writ-proper letters according to accepted usage The same applies to the representation of tones and effects in proper musical notation. In draughtsmanship it denotes the geometrical representation of a building's elevation or of a section through it

Orthopaedic Surgery Branch of medical science dealing with deformities Modern methods owe much to the developments during and after the Great War, when constructive operations and repairs to soft tissue and bone were so frequently necessary Special mechanical instruments, which have been developed, enable excisions to be made and material for renewal purposes to be applied with compare renewal purposes to be applied with compara tively little serious shock to the patient. The use of X-rays is an important adjunct

Ortolan Species of bunting (Emberiza hortulano) It spends the summer in Europe and W Asia, wintering in Africa The male, 61 in long, is attractively plumaged. Hardly ever visiting Britain, it acquired reputo among 18th-century opicures, and is still migration, and forth among 18th-century opicures, and is still netted in S Europe during its southward migration, and fattened on grain for the table

Orwell Estuary of the river known as the Orwell, or the Gipping The river rises in the N of Suffolk and flows past Ipswich to the North Sea

Osaka City of Japan It stands on the month of the River Yodo Numerous canals mouth of the River Yodo Numerous canals and steamers ply between Osaka and Kobe, for which the harbour was constructed It has for which the narrour was constructed at hose an electric railway service, and its industries include sugar refineries, iron works, cotton spinning mills, as well as a trade in tea, rice, etc Among its buildings are the university, arsenal, and Shinto and Buddhist temples. The most populous city of Japan, its boundaries were extended in 1915 Pop (1930) 2,453,57'

Osborne Judgment Judicial de-House of Lords It was given on Dec 21, 1909, in the case of W V Osborne against the Amal-gamated Society of Railway Servants, after the decision of the King a Barch bed has gamated Society of Rahway Servants, after the decision of the King's Bench had been reversed in the Court of Appeal The judgment declared void a Trades Union rule, which provided for an enforced levy from its members towards the payment of M P's salaries and dealt a blow at the political activities of the Trade Unions.

the son of General Bernadotte, who afterwards became Charles XIV He became king in 1844 and established the freedom of the press but and established the freedom of the press but refused reform of the obsolete constitution In 1848 he supported Denmark against Germany and was one of the guarantors of the integrity of Denmark He died July 8, 1859

Oscar II, a son of Oscar I, born at Stock

Oscar II, a son of Oscar I, born at Stock holm Jan 21, 1829 succeeded his brother, Charles XV on July 18 1872, and was crowned on July 18, 1873 His remarkable intelligence and great diplomacy in dynastic matters affecting European sovereigns resulted in Great Britain Germany and America request ing him to appoint the chief justice of Samoa in 1889, and he became umpire in the Anglo American arbitration treaty of 1897 His works include Memoirs of Charles XII He died at Stockholm, Dec 8, 1907

Oscillograph for showing and recorded to the control of the cont His

cording the form of the waves of alternating currents and high frequency oscillations In the Duddell oscillograph and the Irwin hot wire oscillograph, the record is shown by a spot of light reflected from a mirror

Oshawa City and port of Ontario On Italia Ontario it is 33 m from Toronto, on the CP and CN Rlys Its chief Its chief industries are carriage and motor works foun dries, flour and woollen mills, etc. Pop 11,940

Osier Name applied to those native or cultivated forms of willow trees and shrubs whose tough, flexible branches serve for basketry and wickerwork Besides the common osier, Salix minialis, with forty varieties, British osier beds also contain the brown or French willow, S triandra, much hybridised the red S purpurea, and the golden osier, a yellow variety of the white willow

OSITIS Ancient Egyptian deity Originally the local god of Busiris interred at Abydos, he was during the Old Kingdom re Abydos, he was during the Old kingdom revered as the legendary source of Egypt's well being and a centre of widespread worship haround him grew up mythical stories making him the husband of leis and brother of Set the god of darkness Later religion made him the judge of the dead and god of the after life, represented in mummified form with a plumed CECTAN.

Oslo Capital city of Norway It is picturesquely situated on the SE coast at the head of the Christiania Fiord Its Danish name of Christiania was changed to Oslo on Jan 1 1925, in deference to national sentiment The city was designed and laid out by Christian IV in 1624 and possesses several ancient buildings as well as a university, museum and state theatre Its harbour is ice bound during the winter include iron, wool, cotton, paper, tobacco and matches It has a broadcasting station Its manufactures

Osman at Tourk page and soldier Born of Tourkish pasha and soldier Born at Tourkish pa

Osman at Tokat in Asia Minor in 1832, he distinguished himself at Plevna in 1877 With the help of his engineer, Tewfik Pasha Osman entrenched himself in such a formidable position that he delayed the Russians for five months before capitulating thus causing them to cross the Balkans in mid winter He was He was

Oscar Name of two kings of Norway and richly rewarded on his return from imprison Sweden Oscar I, born in 1799, was ment, and in 1878 became War Minister, which post he held until 1885 He died on April 14. 1900

Osmium Rare metal, having the symbol os atomic number 76, and OSIMIUM Os atomic number 76, and atomic weight 190 8 It is bluish-white with a brilliant lustre The metal is very hard and has a higher density than any other known substance. It is associated with platinum and occurs as a natural alloy with iridium as osmiridium in Russia Tasmania South Africa and elsowhere The alloy, osmiridium is used for tips of fountain pen nibs and electrical contacts. Osmic acid is of value as a micro scopic stain for nerve tissue

OSMOSIS of diffusion of two liquids of different density through a permeable but non porous membrane, the pressure controlling this diffusion being known as osmotic pressure To illustrate this, a bladder filled with strong sugar solution is suspended in a vessel of water and it is found that the water rapidly passes through the membrane into the bladder (endosmosis), and a small quantity of the syrup diffuses outwards (exosmosis) Osmosis is an important factor in the root absorption of plants

Osmund English saint. As a chaplain he accompanied his uncle, William the Conqueror, to England, and in 1072 became Chancellor Bishop of Salisbury from 1078, he built the cathedral of Old Sarum, introduced a form of charles are the cathedral of the Sarum, and the cathedral of the Sarum, and the saint and the introduced a form of church service, engaged in the preparation of Domesday Book, and died 1099 He was canonised in 1457

Osnabruck Town in the Prussian province of Hanover, on the Hase, 70 m from Hanover, and 31 from Münster It was a member of the Hanseatic League, and contains, besides the cathedral and the Gothic Marienkirche, examples of Gothic and Renaissance domestic architecture Here in Oct., 1648, the peace Treaty of Westphalia was signed Important manufactures include machinery, iron, steel, paper and chemicals Its linen trade in the 18th century helped to restore the ravages of the Thirty Years' War Pop (1933) 94 277

Osprey Cosmopolitan bird of prey, dis tantly related to the honey buzzards, Pandion haliatus Also called fish-Also called fishhawk, it feeds solely on fish The male, 24 in long has dark brown plumage laced with white, and white underparts The birds nest on trees or lonely rocks near water two or three red blotched eggs are laid. The so called coprey plumes of the feather trade come from the egret (q v )

Ossa Mountain of Greece Its modern name is Kissava and it is 6400 ft Its modern high It is in Thessaly near Olympus and is chiefly known because here the gods and the giants engaged in warfare giants engaged in warfare. The giants are said to have built the neighbouring mountain of Pelion on Ossa in order to reach the sky

Ossett Borough and market town of Yorkshire, 180 m from London and 3 from Wakefield, on the LMS and LNE Riys Its industries are cloth manu facture and coal mining Pop (1931) 14,838

OSSIAN Legendary Irish hero and bard Associated with Flonn and other 3rd-century warriors at the court of Tara, he and his followers traditionally suffered defeat at Gabhra 293 Mythically spending many at Gabhra 293 Mythically spending many years in fairyland, he eventually encountered

S. Patrick, who baptised him His literary work has disappeared, unless it be embodied in the pooms which James Macpherson, a student of Gaelic, claimed to have discovered and "translated"

Ossification Bone-formation Carti-verted into bone, both before birth and during or around fractures In old age certain cartilages, eg, the larynx, may become unnaturally ossified The word is incorrectly extended to morbid processes simulating bonomaking, eg, the thickening of the arterial walls See BONE childhood, at various centres of ossification.

Ossington Viscount English politician born at Ossington, Notts, Jan 27, 1800, commenced his political career in 1823, and soon came to the fore as an orator He was chosen Speaker of the House of Commons in 1857, a position he retained until his retirement in 1872, when he was created Viscount Ossington He died March 7, 1873 The Speakers' Commentary of the Bible was undertaken at his Instigation

OSSOTY Former kingdom of Ireland It covers the counties of Leix, Offaly, Kilkenny and Carlow The term is used to-day for dioceses in the Roman Catholic and Anglican Churches, both of which have their cathedral at Kilkenny The Marquess of Ormende holds the title of Earl of Ossory, given to one of his ancestors in 1527

Osteitis inflammation of the substance of bone. That of the marrow-filled cavities of long bones is called osteomyeiitis, it often arises from septic conditions in young children Chronic estetits may be rarefving, when the bone substance diminishes, or condensing, when it increases It may be due to injury, syphlis or inflammation

Ostend Town, seaport and watering place of Belgium, 77 m from Brussels and 60 E of the Kentish coast. It has commodious modern docks to accommodate the ships of heavy tonnage which cope with the enormous passenger, food produce and other traffic with England and elsewhere The promenade, 3 m long, is constructed of granite, with a casino and the Royal Châlet Its manufactures include linen and salicioth From 1914-18 Ostend was occupied by the

manufactures include lines and salicious.

From 1914-18 Ostend was occupied by the Germans as a submarine base, but aerial bombardment made it indefensible and the sinking of the Vindictive in 1918 practically blocked the entrance to the harbour A lighthouse, replacing the one destroyed in 1916, was completed in 1924 Pop (1931) 47,313

Trajan, in AD 103, made still further extensions The canal became blocked in the Middle Ages until the beginning of the 17th century

Ostia gradually declined until it was abandoned In the 15th century a castle was erected E of the ancient city by Guillano della Roverre In 1875 extensive draining of the marshes around Ravenna took place

Ostracism Greek equivalent for banishment Votes were recorded on fragments of pottery (ostrala), and in Athens, if 6000 citizens voted against a man he was ostracised or exiled for 10 years, or for 5 Miltiades, Themistocles and Alcibiades were all ostracised. all ostracised

all ostracised Ostrich Two-toed flightless bird (Struthio camelus), with keelless breastbone, indigenous to Africa and SW Asia It is the largest living bird The males, 8 ft high, have short black body-feathers and long white rump and wing-feathers, those of the female are dusky grey Dwindling in SW Asia, they still occur wild in Africa, and are reared in extensive ostrich-farms in 8 Africa, Kordofan, Argentina, California and elsewhere

Ostrogoths Eastern branch of the Goths They flourished in the 4th and 5th conturies and were one of the branches into which the Goths were divided, the other being Visigoths or West Goths See GOTHE

Ostwald Wilhelm German chemist Born at Riga, Sept 2 1853, he was educated at the University of Dorpat, after which he spent five years in Riga In 1887 he became Professor of Physical Chemistry at ne became Professor of Physical Chemistry at the University of Leipzig and then Director of the Physico Chemical Institute there In 1906 he retired, and in 1900 was awarded a Nobel prize He wrote a number of books on chemistry, including Principles of Inorganic Chemistry His work lay chiefly in the field of electrochemistry and solutions Ho devised the viscometer known by his name and the the viscometer known by his name, and discovered a method of oxidising ammonia to form oxides of nitrogen His knowledge greatly assisted the manufacture of explosives in Germany during the Great War

Oswald King of Northumbria A son of Ethelfrith, King of Bernicia, he succeeded his brother as king in 635 He was successful as a soldier and united Bernicia and Delra into the kingdom of Northumbria which during his chort reign. which, during his short reign, was the strongest in England He was killed at Oswestry in 642 in a battle against Penda, the heathen king of Mercia Oswald is known for the work he did for Christianity, and was made a saint

Oswaldtwistle Urban district of the Lancashire, on the Leeds and Liverpool Canal and the L MS Rly Its chief industries are cotton mills, chemical works and printing works Near are colleries

Osteology Branch of anatomy dealing with the bony framework of the body See Sklleton, Anatomy Osteopathy Method of medical treatment based on the belief that health can be maintained by attention to the proper mechanical adjustment of the body rather than by the use of drugs It includes surgical treatment for fractures and wounds, attention to diet, hygiene, etc. In some states in the USA practitioners are legally on the same basis as other qualified medical men Ostia. Ancient town and harbour of the same basis as other qualified medical men of the Tiber, 14 m from Rome, it became an important harbour during the Punle Wars. The Emperor Claudius had a new harbour constructed 2; m to the N, about AD 46, connected with the Tiber by a canal, and

stone, he was educated at Rugby and the East India Co's College at Halleybury In 1837 he went to Madras and become known for his prowess as an elephant catcher, whilst he took up the study of surgery, medicine and languages He next went to S Africa and explored parts hitherto untraversed by Europeans, including the expedition with David Livingstone and Mungo Murray, when they discovered Lake Ngami and found that It was possible to cross the Kalahari desert with the ald of oxen and wagons In 1853 he returned to England and served in the Crimean War He visited N and S America and died May 1, 1893

Oswestry Borough of Shropshire, 20 m from Shrewsbury, on the GW Rly It is in an agricultural area and one of its chief industries is tanning Pop (1931) 9754 Old Oswestry is a strongly forti

fied encompment about a mile away

Otago Provincial district at the S end of South Island, New Zealand First settled in 1848, it has an area of 25,220 sq m, and a population of (1932) 222 600 The capital is Dunedin, and it has two scaports Oamaru in the N and the Bluff in the S It produces oats rye, fruit, and one third of New Zealand's gold

Otaru Seaport on the W coast of Yezo Japan 100 m. N of Hakodate It is a centre for herring fishing Pop 144,887

Otford Village of Kent, on the Darent 3 m from Sevenoaks and 24 from London, by the S Rly Here are rulns of a London, by the 8 castle Pop 1785

Otho Marcus Salvius Roman emperor Born April 28, and 32 he was sent in 58 by Noro, whom he had displeased to govern Lusitania In 69 he supported Galba in a revolt against Nero. He next rose against Galba who was slain. He then proclaimed him self Emperor and reigned only three months, when Vitallius completely overther by its forces. when Vitellius completely overthrew his forces
He committed suicide on April 16, 69
Otitis Inflammation in the organ of hear
ing It may concern the skin of the

external ear, and be acute or chronic, sometimes with discharge and more or less deafness Earache frequently consists of inflammation of the middle car also acute or chronic, with or without the formation of pus, which may involve drum perforation or discharge In flammation of the inner car, producing nexvedeafness, may be due to an affection of the drum or to disease within the brain

Otley Urban district and town of York shire (WR) on the River Wharfe, 10 m from Bradford on the LNE and LMS Rlys Its industries include spinning, tanning, leather dressing and the manufacture of print ing machines, and here also are stone quarries. S of the town is the ridge of Chevin, famous

for its extensive views. Pop (1931) 11 020
Otley is also the name of a village in Suffolk,
6 m from Woodbridge

Otranto Scaport and town of Apulia, Italy, 45 m from Brindist Founded by Greek colonists in the Middle Ages it was the principal trading port with Greece It has ruins of a castle which Horace Greece Walpole used in the title of his romance has a small harbour Fishing is its principal Industry

The Strait of Otranto is 44 m across Here is a lighthouse, a cable runs to Corfu and

cleowhere

River of Canada The most im Ottawa portant tributary of the St Lawrence, it rises 300 m N of the capital of Ottawa and has important tributaries on each bank, the largest being the Gatineau Its total course is about 685 m, of which only a third is navigable At Ottawa the river forms the Chaudiere Falls, 40 ft high The Rideau Canal connects it with Lake Ontario

Ottawa Capital of the Dominion of Canada, on the Ottawa River, Chaudi re and Rideau Falls Champlain describes the site in his Voyages as early as 1613, but no settlement was attempted owing to the hilly nature of the district, until well on in the 19th century, when a canal was built from the Chaudière Falis to Lake Ontario This settlement soon developed into a wealthy and important factor in the lumber trade. Ottawa was incorporated as a city in 1854 and in 1858 was chosen as the capital of Canada

Finely situated, Ottawa numbers among its important buildings, the Parliament buildings Royal Mint, National Museum and National Art Gallery It is served by the CN and OP Rlys and is cut in two by the Rideau canal

Pop (1931) 124 988
An important conference was held at Ottawa in 1932, when representatives of the self-governing states of the British Empire met to discuss the possibilities of increasing intra imperial trade

Otter Widely distributed sub family of carnivorous mammals of the weasel carnivorous maintants of the weather family The common European river ofter, Latra vulgaris, 27 in long, with 15 in tail, has short limbs, rounded webbed feet and small external ears It hunts fish, especially by night swimming horizontally through the water Common throughout Britain, it rests in riverbanks or in season caves. The larger American

banks or in seashore caves The larger American L canadensis furnishes the most valuable of N American furs Otters occur in India, the Cape and S America The sea otter (q v ) forms

a distinct sub family
Ofterhurn Village of Northumberland, Otterburn Village m station, on the L.N.E. Rly from Woodburn Near is an obelisk marking the spot where the battle of the Chevy Chase (q r) was fought between the Douglases and the Percies on Aug 19 1388 Pop 350

Otter-Hound Breed of dog maining Descended from the old southern breed, it is distinguishable from the rough Welsh harrier only by its broad, splayed feet and its abundant olly waterproof undercoat. Standing abundant only waterproof undercoat. Standing 23 in high, with sweeping ears, deep set eyes and long nock, it is essentially a water dog Several packs exist in W England Ottorhunting lasts from mid April to mid September See HARRIFR.

Ottery St Mary Urban district of Devonshire, 12 m N E of Exeter and 163 from London, by the S Rly The town has lace manufactures The fine Church of St Mary is a replica on a smaller scale, of Exeter Cathedral Here S T. Coleridge was born Pop (1931) 3713

Name of four emperors of the Holy Otto Name of four emperors of the Holy Roman Empire Otto I, called the Great, was born Nov 23, 912 the son of Henry I, and crowned Gorman King in 936 He spent some years subduing his dissatisfied nobles, the Bohemians, Danes and Wends In 051 he defeated Berengar II, and in 955 the Magyars defeated Berengar II, and in 955 the Magyars His first wife was Edith, daughter of Edward the Elder, his second wife, Adolaide, Queen of Lombardy He died May 7, 973 Otto II Born 955, son of Otto the Great, was crowned German King in 961 and joint Emperor of Rome in 967 During his reign he subdued a revolt of the Duke of Bayaria, expelled the French from Lorraine, and unsuccessfully laid claim to part of S Italy He died Dec 7, 983 Otto III, called The Wonder of the World, born July, 980, the son of Otto II, was chosen king as his father's successor and crowned in Dec, 983 His mother, Theophano, governed until her death in June, 991, and he took over the reins of government on May 21, 996 His ambition was to make Rome an empire surpassing in greatness anything hitherto conceived, but he died before accomplishing this, Jan 23, 1002 Otto IV Born about 1174, the son of Henry the Lion, was chosen German King, Nov 11, 1208, and crowned Emperor in Rome, Oct 4, 1209 He quarrelled with the Pope who excommunicated him, and in 1212 declared him deposed, upholding Frederick II in opposition to him Otto espoused England's cause against France, and defeated in 1214, escaped with difficulty to Cologne He died May 19, 1218, at Harzburg 1218, at Harzburg

Otto I. King of Greece The son of June 1, 1815 Elected by the Conference of London to occupy the newly created throne of Greece when only 17, he was forced to rely on Bavarian troops and ministers to maintain his position With the help of Ludwig, Count of Armansperg, his Bavarian Chancellor, he kept the Greeks in subjection In 1861 the nation revolted after an attempt to murder the Queen Amalie, and in 1862 Otto and Amalie were forced to leave Greece and return to Bavaria He died July 26, 1867

Attar, of Roses or Essential oil obtained by distilling or macerating the petals of damask and other fragrant-flowered roses Most otto on the market comes from the Balkans, where 20,000 Bulgarian peasants cultivate small plots of roses, 150 lb of petals vield 1 oz of pale yellow oil. The distillate water, treated with fresh flowers, furnishes the rosewater of perfumers

Ottoman Name of a Turkish people Osman, or Othman (1288-1326) was the leader of a tribe which was called the Ottoman Turks They became very powerful and in 1453 took Constantinople.

The name Ottoman is applied to a form of onshipmed seat without a back which originated

oushioned seat without a back, which originated

## Ottoman Empire See TURKEY

Otway, Thomas English dramatist Born 1652, he was educated at Winchester and Christ Church, Oxford. He failed as an actor, but had some success with his tragedy, Alabiades (1675) He followed this success with a series of comedies and tragedies including translations of Racine and Molière His greatest work is Venuce Preserved (1682) He died April 16, 1685

Oudenarde Flemish town, on the Schelde, 17 m. SSW of Ghent. On July 11, 1708, it was the scene of a battle in the War of the Spanish Succession, when the Duke of Marlborough and Prince Eugène defeated a superior French force, and drove Louis XIV to make peace overtures, which were not accepted.

| Sw It was a very common punishment in the Middle Ages, but is never employed to-day An outlaw, having no rights, could be killed by any one and his property taken Outlawry was not, therefore, quite the same as banish drove Louis XIV to make peace overtures, Outram

| Sir James | English | Soldier | Born | at Butterley | Hall | in |

Oudh Province of NW India occupying the basin of the Gumti, Gogra and Rapti rivers. It stretches from the N bank of the Ganges to the lower Himalayas Entirely agricultural, it exports crops of wheat and rice Its largest town is Lucknow In the 12th century Oudh became subject to the Empire of Delhi, previous to which it was one of the earliest centres of Arvan civilisation. It was annexed by the British in 1856 after being an independent state for about a century. The

independent state for about a century The population is one of the densest in the world Pop 12,833,000

Ouida Pseudonym of Louise Ramée, the Edmunds, Jan 7, 1839, she lived in London for a time and then made her home in Italy Of her many novels Under Two Flags and Moths are considered her best productions She died Jan 25, 1906

Outle of Lake or broad of Suffolk It is

She died Jan 25, 1906

Oulton Lake or broad of Suffolk It is village of Oulton, famed for its connection with George Borrow Also called Lake Lothing, it is visited for boating and fishing

Ounce (or Snow Leopard) Large spotted cat (Felis uncia) inhabiting the mountainous regions of Central Asia Obtuse-muzzled, 7 ft long, including 3 ft tail, the long, woolly fur, greyish above, pure white beneath, has large black irregular spots It preys on wild sheep, goats and rodents, descending to 6000 ft in winter, and ascending to 18,000 ft in summer See Leopard

Oundle Urban district and market town 13 m from Peterborough, on the L MS Rly Its chief industry is lace making Pop (1931) 2001

Oundle School was founded by Sir William Laxton in 1550 It is controlled by the Grocers' Company and in the 19th century became a great public school under F W Sanderson

Ouse River of East Anglia, known as the the hills between the counties of Oxford and the fills between the counties of Uxford and Northampton and flows for 160 m to the Wash It flows part Buckingham, Newport, Pagnell, Bedford, Huntingdon, St Ives and King's Lynn, and is navigable to Bedford Its tributaries include the Little Ouse, Cam, Lark, Ouzel and Tove Two artificial channels called the Bedford rivers take some of its water across the district.

the district.

Ouse River of Yorkshire It is formed by the union of the Ure and the Swale at Boroughbridge It passes York, Selby and Goole and then joins the Trent to form the Humber estuary It is 60 m long and is tidal to Selby Its tributaries include the Nidd, Aire and Don, Derwent and Wharfe, by means of canals it is connected with other waterways in the N of England

Ouse River of Susset. It rises near Horsham and flows to the English channel at Newhaven, 30 m long It passes Lewes, to which town it is navigable by small ressels

Outlawry Art of placing a person outside the protection of the

Sir James. English soldier Born at Butterley Hall in

Derbyshire, Jan 29, 1803, he began his service in India with the Bombay native infantry in 1819 Almost his whole career was spent in India and Afghanistan Returning from his successful command of the Persian expedition, he was one of the heroes of the Indian Mutiny With Havelock he relieved Lucknow and then held it until relieved by Sir Colin Campbell Created G C B in 1857, he was made Lieutenant Gemeral in that year, and a baronet in 1858 He died March 11, 1863

Ouzel Name denoting the blackbird in Anglo Saxon times, and still occasionally so used in N Yorkshire The word appears in compound forms, such as the ring ouzel, Turdus torquatus, an allied thrush which reaches Britain every spring for breeding, mostly going southward in October, the water ouzel, Curclus aquaticus, is better known as the dipper (g v)

Ovary ductive cells are developed. The operation known as ovariotomy consists of the removal of cysts and tumours, or of the complete organ itself. Previous to the introduction of antiseptic and asoptic surgical methods this operation was a most serious one, but is now accompanied by lower mortality than other major operations.

Over District of Cheshire It is on the Unit Weaver, 4 m from Middlewich, on the LMS and Cheshire Lines Riys The chief industry is the mining of salt Over is part of the urban district of Winsford (qv) and Over

Overload Term used in engineering for an excessive mechanical load on an electric motor proventing the economical working of the machine An over load may cause a slowing down of the armature, thus reducing the electromotive force and causing waste of energy by the heating of the coils due to the passing of an increased amount of current.

Oversea Settlement Committee
government committee appointed in 1909 to
bring the government into closer touch with
the settlement of British subjects in the
Dominions and elsewhere
and widely representative and advises on land
development, settlement schemes, assisted
passages, training, etc The government's
contribution in any one year is limited to three
million pounds

Overseas Trade Name given to a British Government that exists to promote trade with foreign countries It was set up in 1917 and is under the Joint control of the Board of Trade and the Foreign Office The offices are at 35 Old Queen Street, London, SW 1 and 912 Basinghall Street, London, EC 2

Overseer Officer formerly appointed by oughs parishes and townships There could not be less than two or more than four for one parish or township The duties of an overseer included the appropriation distribution and collection of poor rates, but after the passing of the Poor Law Amendment Act of 1834 such duties as the distribution of poor reliet etc, were transferred to the boards of guardians The office was abolished in April, 1927, by Order of Council

Overture A musical composition, primarily intended to introduce a play opera or other larger work. Originally consisting only of some introductory

bars, it was developed by Lulli into the fixed form of a slow introduction followed by a quick fugal Allegro Gluck made the overture analogous to what succeeded it, and in Iphigenie en Tauride made no break between the overture and the opening scene Later composers incorporate in the overture themes from the main work

Ovid Roman poet Publius Ovidius Nosa was born at Sulmo, in the Paeligni, March 20, 43 BC Destined for the law, he early abandoned public life for poetry, and became a master of the elegiac couplet He enjoyed the favour of the Emperor Augustus, and was a friend of Propertius and Tibullus In AD 9 he was banished to Tomi on the Black Sea where he died AD 17 The Amores contains his work.

OWen Sir Riohard English biologist. After studying medicine at Edinburgh and London, he was influenced by Abernethy to take up scientific research and in 1856 he became superintendent of the Natural History Department of the British Museum In 1884 he completed his scheme of making a separate National Natural History Museum, which was established at South Kensington He wrote profusely on zoology and anatomy He died on Dec. 18, 1892

Owen Robert. British social reformer Born at Newtown, Montgomeryshire, May 14, 1771, when 10 years old he started work, at 19 he was the manager of a cotton mill, and at 28 part owner of the New Lanark cotton mills He encouraged his work people in thrift and cleanliness, helped to establish infant education and endeavoured unsuccess fully to run experimental communities on cooperative lines In 1823 he left New Lanark, and his wealth exhausted spent the rest of his life in socialistic and spiritualistic propaganda, establishing an unsuccessful colony at New Harmony, USA. He died Nov 17, 1858

Owen Sound Town and lake port of Ontario It stands on the Sydenham River, where it falls into Owen Sound, an arm of Georgian Bay and therefore of Lake Huron It is 120 m from Toronto, and is served by both the trans continental lines and lake steamers. There is a good harbour and the industries include flour mills and lumber mills Pop (1931) 12,839

Owl Generic name for nocturnal birds of shortened faces, hooked bills and large forward looking eyes, usually set in a ruff of feathers, many having feathered ear tufts or horns. The softness of the plumage enables very noiseless flight. They feed on small mammals, birds and reptiles. Of about 200 species four, the barn, the tawny, the long-cared, and the little owl, are resident in Britain. Two others the short cared and the snowy, are regular summer visitants, there are other occasional stragglers.

Oxalic Acid Organic acid occurring in the wood sorrel, Oxalis accioscila, as a free acid and acid potassium oxalate It is a white crystalline and poisonous substance, propared commercially by fusing sawdust with a mixture of caustic soda and potash Oxalic acid is used in dycing, calico printing, straw and flax bleaching, and the cleaning of metals

Oxford County town of Oxfordshire It is situated on the River Thames, 51 m. W N W of London In Saxon times it was an

important military fortification, and its academic associations begin as early as the 12th century with Theobald of Etampes' School and, in 1185, the establishment of a guild of wandering scholars by Giraldus Cambrensis The 13th century marked the beginning of a long period during which Oxford plaved a prominent part in English history Several parliaments, notably the Mad Parliament, were held here, and a charter was granted in 1248 The power of the University has hindered Oxford's growth as a town, but it has developed considerably, and the establishment of the Morris Motor Works at Cowley has made Oxford an important industrial centre Pop (1931) 80,540 See Oxford University

Oxford Robort Harley, 1st Earl of English statesman. Born in London, Dec 5, 1661, he entered Parliament, as a Whig, but later seceded from the Whigs and led the Torles In 1704 he was Secretary of State, and in 1710, Chancellor of the Exchequer In 1711 he was Lord High Treasurer, and was raised to the peerage He fell into disfavour with Anne and Lord Bolingbroke before her death, and soon after the accession of George I, he was impeached for treason Imprisoned for 2 years he died on May 21, 1724

Oxford and Asquith Earl of Engclan Born at Morley, Yorkshire, Sept. 12, 1852, Herbert Henry Asquith was educated at the City of London School and at Oxford, where he had a distinguished career He was called to the Bar, entered Parliament for East Fife, in 1886, and represented that constituency until 1918 He became Home Secretary in the Liberal Government of 1892, on the fall of the Salisbury Government, and was attacked vigorously for his conduct in sending troops to suppress the Featherstone Colhery strike In 1995 he became Chancellor of the Exchequer in the Campbell-Bannerman Government, and succeeded Campbell-Bannerman Government, and succeeded Campbell-Bannerman as Premier in 1908 In 1911 an Insurance Act was passed, and in 1912 there followed the famous constitutional struggle with the House of Lords Asquith tried to give Southern Ireland Home Rule, while pacifying Ulster, and on the outbreak of war, in 1914, he appointed Lord Kitchener War Minister Differences arose on the conduct of the war and a coalition cabinet was formed, but Asquith resigned the premiership in Dec. 1916

ship in Dec., 1916
In 1918 he was defeated for Fife, but returned for Paisley The Coalition fell, and the Labour and Liberal parties later ousted the Tory Government under Baldwin After the defeat of the first Labour Government in 1924, he was again without a seat, but was made Lord Oxford and Asquith in 1925 In 1926 he quarrelled with Lloyd George over the General Strike In his last years he wrote his reminiscences Fifty Years of Parhament He died on Feb 15, 1928 Asquith's second wife Margot, note Tennant, is known as the witty and brilliant author of The Autobiography of Margot Asquith and several other books

Oxford Group Religious movement in the Church of England Founded by the Rev Frank Buchman, an American Methodist minister, it first took root in England at Oxford and represents an attempt to revive the spirit of 1st century Christianity Stress is laid upon confession, self-dedication and guidance The movement has spread rapidly over the British Isles and in

America, and has been extended to the Continent, South Africa and India.

Oxford House Settlement in Bethnal EC It was founded in 1884 by members of the University of Oxford to carry on religious and social work among the poor under the original building is in Mape Street, but the settlement includes several others, among them S Margaret's House, a centre for work among women

Oxford Movement Movement for the Church of England, called sometimes the Tractarian movement. The Rev E B Pusey is usually regarded as its founder, and its principles were laid down in sermons which he preached in Oxford in 1833 and in the Tracts of the Traces published in 1834 The movement aimed at bringing more reverence and order into the worship of the church, but its proposals were disliked by many The centenary of the Oxford movement was celebrated in 1933

Oxford University One of the universities Founded about the 12th century, it has 21 colleges University, Balliol, Merton, Exeter Oriel, Queen's, New College, Lincoln, All Souls, Magdalen, Brasenose, Corpus Christichurch, S John s, Trinity, Jesus, Wadham, Pembroke, Worcester, Keble, and Hertford There are four women's colleges Somerville, Lady Margaret Hall, S Hugh's and S Hilda's, one academic hall, S Edmund's, and four independent theological foundations Pussey House and Wycliffe Hall (Anglican) and Mansfield and Manchester colleges (Nonconformist) Non-collegiate students are called members of S Catherine's college, and women home students are admitted

Among other buildings are the Bodleian Library, the University Schools, Sheldonian theatre, Ashmolean museum and the university church of S Mary The university has other museums, an observatory, and a botanical garden The Oxford Union Society is the chief debating society, and there is a well-known dramatic society, the O U D S

garden The Oxford Union Society is the chief debating society, and there is a well-known dramatic society, the O U D S

The university has about 4600 students of whom about 800 are women At its head is a chancellor, but the acting head is the vice-chancellor, nominated annually by the chancellor Two prectors are appointed annually. The university legislates through convocation, controlled by the Hebdomadal Council (q v) Degrees in a variety of subjects are granted by the ancient house of congregation Individual colleges are ruled by a head, whose title varies from college to college, and fellows, the disciplinary officer of the college being the dean Among its famous alumn may be mentioned

Among its famous alumn may be mentioned Sir Philip Sidney, Pitt, Wesley, Cardinal Nowman, Cecil Rhodes, and more recently, Lord Aquith, Lord Birkenhead, Sir John Simon and others

The university has a famous press, the Clarendon Press with offices in Oxford and London The university sends two members to Parliament

Oxfordshire County of England In the south of the country, it is wholly inland and has the Thames as its southern boundary. The chief town and the largest is Oxford, others are Banbury, Bicester, Henley, Woodstock, Thune, Chipping

Pahang One of the Federated Malay States under British protection It is on the cast coast of the Malay Peninsula within 200 m by sea from Singapore Pop (1931) 180 111 It is one of four protected native states administered by a Chief Secretary and under agreement to furnish a contingent of troops for service in the colony should the British Government be at war with any foreign power

Paignton Watering place of Devon shire, on the Tor, I m to the west of Torquay The new town is on the sea, the old one behind Here are the remains of a bishop s palace, in the tower of which Miles Coverdale (1487 1563) is said to have made his translation of the Bible There is a considerable production of cider in the town Pop (1931) 18 405 18 405

Pain Uncasiness or distress of body or mind In the medical sphere it may be cautionary, corrective local, general, acute, throbbing, stabbing, gnawing or To dull pain by bromides, opiates or chronic. burning

other anodynes is often harmful RELIEF OF PAIN Pain in the stomach, or lowel, arising from congestion or other dis turbance, will be relieved by hot water bottles or hot fomentations A dose of castor oil will or not fomentations. A dose of castor oil will often give immediate relief to pain and will help to cure the condition, or a soap and water enema (1 2 pints at 100° F) may be used to clear the bowel if the pain is in the lower part of the abdomen. If a more serious cause is suspected (i.e., ulcer, appendicitis, etc.) consult a doctor See Indigestion, Colic

Painlevé Paul French politician Born in Paris Dec 5, 1863 ho became a professor of mathematics at the Sorbonne, and in 1906 was elected an independent Socialist deputy for Paris, but it was not until he became a member of M Briand's cabinet in 1915 that he became important He was Minister of War in March, 1917, in Ribots cabinet, and formed his own cabinet in Sopt 1917. He met Lloyd George and Orlando at Rapallo and their discussions resulted in the foundation of the Supreme Allied Court of Versailles. He was defeated by Clemenceau in Nov, and was not again Premier until 1925, since when he has been War Minister in several cabinets. In 1932 he joined the government of

Paint Preparation of a pigment mixed with an appropriate vehicle Some pigments are of mineral origin such as umbers, ochres and siennas others are derived from plants such as madders gamboge and indigo A few such as sepia carmine and Indian yellow are of animal origin while many synthetic

dyestuffs are used as pigments

Pigments are prepared by washing grinding, and finally mixing with a medium such as inseed oil and turpentine in oil painting, water in water colour, size in distemper, and wax in encaustic painting

The Painter's Company is one of the ancient livery companies of the City of London, and has its offices in Little Trinity Lane E C

Painting One of the fine arts. It back to palaeolithic when early man made remarkable drawings on the walls of caves in flax tints and brilliant polychrome fresco, using as pigments various earthy substances In later times in Lgypt and Greece mineral and some organic pigments were used with gum as the usual medium. In mediaeval Italy the artists painted in fresco and

tempera, but the early work was flat, then with the Renaissance came the study of light and shade and the beginnings of perspective, the pioneer artists being Masaccio, Uccello, Man

tegna and Leonardo
With the Van Dycks in the Netherlands originated oil painting, later carried to a high level of excellence by the Dutch and Flemish schools under Rubens, Rembrandt, Hals and others In Italy the new method was taken up by Leonardo, Perugino and other great artists, and used by the Venetian School under Interetto and Veronese From these times onward, great progress in oil painting has been made in France Spain and England as repre-sented by the works of many great masters

A further development came with the rise of water-colour painting in England during the 18th century This is now an important branch

of the art

Paisley Burgh of Renfrewshire It stands on the Cart near its junction with the Cirde about 7 m S W of Paisley Glasgow It is the centre of important cotton Formerly it was famous thread manufacture for its shawls Shipbuilding is now an industry owing to the widening of the Cart Extensive starch, cornflour, bleaching, dye, chemical, fireclay, pottery and engineering works have been developed. Pop (1931) 86,441

Palaeobotany Study of fossil plants from the remotest times they occur in more or less recognisable forms as external plant impressions and casts, petiliactions of stems, seeds and other organs and mummified masses of plant material such as coal By tracing the relationship of groups now widely divergent through common ancestors now extinct, they throw light both on geographical distribution and on the successive appearance of more and more highly organised forms During the long pre Cambrian age unicellular forms were gradually accom panied by cryptograms, represented in the palaeozoic by immense horse talls, lycopods conifers and cycads Flowering plants occur from mesozoic times onwards

Palaeography Study of ancient hand writing, specifically on flexible materials Ancient MSS were written with reeds stiles or quills From ancient Egypt onwards literary and non literary forms of script existed side by side. The one beginning as separate capital letters, passed into the book hands which in the 15th century determined the form of printed types The other, comprising swift cursive scripts passed into national handwritings Palaeography throws light upon the data outgraphs. the date, origin and genuineness of MSS EPIGRAPHY

Palaeolithic Term denoting the rudely chipped and flaked flints and other implements produced by man during the older phase of the prehistoric stone age
the older phase of the prehistoric stone age
These palaeoliths are intermediate between
collths and neoliths Scattered throughout
Lurope, they accompany other cyldences of a
primeval civilisation collectively called palaeo with human remains of primitive form It spread throughout the world before the neolithic phase began, and survived into recent times in Tasmania and elsewhere

Palaeoniology Study of past life on the globe, especially as revealed by fossil remains. It comprises pulseohotany (q v) and palaeozoology, term sometimes denotes the latter alone the description of the fossil organisms themselves is called palaeontography Sec Fossils

Palaeozoic Name given to the division for for the Cambrian system through the Ordovician, Silurian, Devonian and Carboni-ferous to the Permian They comprise sandstones, shales and slates, often highly metamorphosed, with limestones in places, and coal They contain abundant remains of invertebrates, fishes, reptiles, amphibians and nonflowering plants

Roof of the mouth It forms a partition between the mouth and 'alate the nasal cavity above it. Comprising in front the fixed bony plate or hard palate, it projects behind into a muscular layer or soft palate, ending in a free border or uvula, all covered with mucous membrane on both sides CLEFT PALATE

Palatine Originally signified "pertaining to a palace," and consequently invested with special privileges A Count Palatine was a feudal lord with supreme judicial authority over a province, and a County Palatine a province produce and a County Palatine, a province under such a rulor The only County Palatine remaining in England is Durham, the palatine privileges of which are believed to have been conferred during the Norman Conquest Cortain ancient customs of the palatinate are retained

One of the hills of Rome (q v) is called the latine Augustus, Tiberius and Nero had Palatino

palaces here

Pale The Portion of Ireland which, from the time of Henry II to that of Elizabeth, was subject to English, not Celtic, law Its sire varied according to the strength of the authorities The Anglo-Saxon rulers were called Lords of the Pale There was a "Calais pale" in France till 1558, and an "English pale" in Scotland under the Tudors

Palermo Capital and scaport of Sicily in NW of the island Originally a Phoenician colony of 8th 6th century B c, it a Phoenician colony of 8th 6th century B c, it was also an important Carthaginian centre until acquired by Rome in 254 B c There were successive Byzantine, Saracenic, Norman, Spanish, Italian, and French occupations Finally Palermo was liberated by Garibaldi who entered it in triumph on May 27, 1860 It has a university founded in 1779, and a new harbour, including a shipward and a dry dock It has a broadcasting station (542 M, 6 kW)

Pop 458,979

Palestine The Holy Land of Christianity and the scene of most of the events of Biblical history. It is bounded on the N by Syria, on the W by the Mediterranean, on the E by the Syrian and Arabian deserts, and on the S by Arabia Conquered by the Ottoman Turks in the early part of the 16th contury, it was reconquered in 1917 by a British force under Gen Allenby, who entered Jerusalem on Dec 9, and subsequently cleared the whole country of Turkish sequently cleared the whole country of Turkish troops After the war Great Britain was granted a mandato for Palestine by the League of Nations on July 24 1922

The area under the British mandate is about 10 000 so monthly and the Market M

The area under the British mandate is about 10,000 sq m and the pop in 1931 was 1,035 154, of whom 759 952 were Moslems, 175,006 Jews, and 90,607 Christians, the remainder being Druzes Samaritans, Bahais, Sikhs, Hindus and Metawilehs The chief town is Jerusalem (qv) Arab villages number about 750 Jewish colonies are grouped in four districts, Judaea, Samaria, Lower and Upper Galilec.

The head of the British Administration is the High Commissioner There are three administrative districts, Northern (Haita) Jerusalem, Southern (Jaffa), each under a governor The chief ports are Jaffa, Haifa and Aore The country commisses four 70000 American Inc. country comprises four zones, a maritime plain, an inland plateau, a great valley, and Transjordania, east of the Jordan, which merges into the Arabian Desert A singular feature is the Dead Sea, which is about 1300 ft below sea-level, is 46 m long, and has an average width of 8 m, is intensely salt

Palestrina Giovanni Pierluigi Da Ital-he devoted his talents to the service of the Church and became chapel master at the Vatican in 1551 In 1555 he lost the post and went to S John Lateran, but was restored to went to S John Lateran, but was restored to the Vatican in 1571 One of the greatest polyphonic composers, he left behind him many motets, masses, hymns and other works He died Feb 2, 1591

Palgrave and critic Born Sopt 28 1824, he was educated at Bellial and became Feller.

he was educated at Balliol and became Fellow of Exeter College, Oxford He became private secretary to Earl Granville, official in the education department, and professor of poetry at Oxford (1886 1895) His works include Idults and Songs (1854), Essays on Art (1866) Lyrical Poems (1871), and Visions of England (1881) He also edited various collections of byrical and religious neetry, notably the livical and religious poetry, notably the Golden Treasury of English Songs and Lyrics (1861, re edited 1896) He died Oct 21, 1897
Sir Francis Turner Palgrave, father of above was born in July, 1788 He was the son of a

was born in July, 1788 He was the son of a Jewish stockbroker named Cohen, but assumed his mother-in law's maiden name on his marriage in 1823 He was called to the Bar 1827, and knighted 1832, and was appointed Deputy Keeper of H M's Records, 1838-1861 His works include The English Commonwealth (1832) and a History of Normandy and of England (1851-1861) He died July 6, 1861

Pali Language and form of script of Budd-hist sacred books It was the living tongue of cultured India from the 7th century BC onwards, and continued in use for at least ten centuries, being ultimately displaced as Brahmanism regained its hold. Its use was retained by Buddhist scholars in Ceylon, Burma and Siam

Palimpsest Ancient manuscript immaterial, usually parchment, re-used Chemical and photographic means occasionally restore the original writing, sometimes recovering valuable texts, thus, the 12th-century Ephraem Codex in Paris revealed 5th-century portions of Greek Biblical texts There are some double pallmpsests Palimpsest monumental brasses or stone slabs, reversed for re-use, also exist

Palissy Bernard French potter Born at Agen in France about 1510, he became a glass painter and settled at Saintes He spent sixteen years in attempts to make enamelled ware, but finally won fame as the producer of pieces bearing coloured plants and animals in high relief. He was imprisoned as a Huguenot in 1562, but released by roval favour, and granted a workshop at the Tuileries. Re arrested in 1585, he was thrown into the Bastille where he died in 1589

Palladio Androa. Italian architect and founder of the Palladian style of architecture. Born Nov 30, 1518, Palladio

published in 1570 Quattro Libridell Architettura This greatly influenced Inigo Jones (q r ), who, after studying in Venice, introduced the Palladan style into England, and wrote notes on the Quattro Intr., which are incorporated in the English translation, published 1715 Palladio's masterpiece is the Church of the Redeemer at Venice He died in 1680

Palladium In Greek legend, an archaic wooden image of Pallas Athena kept in the citadel of Troy for safe guarding the city Its abstraction by the Greek horocs Odysseus and Diomodes led to the fall of Troy Another legend claimed that Acneas took it or another to Italy, where it was preserved in Rome

Palladium Rare metallic element having weight 1067, palladium is silvery white in colour and like platinum is unaltered by exposure to air, but is slowly attacked by nitric acid It has been used for parts of chronometers and astronomical instruments, also in certain silver alloys, but the supply now is very limited

Pallas (Athene) Goddess of wisdom, war and the liberal arts in the Greek mythology She is said to have sprung fully armed from the brain of Zeus, and is represented armed and carrying a shield bearing the Medusa's head

Pallium (or Pall) Ecclesiastical vestment. The Roman Catholic Church reserves it for the Pope, archbishops and by ancient usage seven specified continental bishops It comprises a narrow shoulder band of white lamb's wool, with short lappets before and behind, embroidered with six crosses and decorated with three jewelled pins.

Pall Mall Thoroughtere in London, so called from the game of Paulic Maulie plaved here in the time of James II Originally an open green in part of St James's Palace, houses began to be built about 1650, and a street was completed about 40 years later Nell Gwynn lived at No 79 from 1671 to her death in 1687 Pall Mall, which runs from Trafalgar Sq to St. James's St., contains many famous clubs

Palm (Palma) Natural order of endognatives, of tropleal and subtropical regions Variously estimated at 600 1000 species, bearing crowns of spreading fan shaped or feathery leaves, their economic products are important for habitations, clothing uteuslis, the date palm's pulpy fruit, the sago palm s farinaccous pith and the cabbage palm's terminal buds are cdible Other species yield palm sugar or jaggery, palm wine or toddy, candle wax, oil, vegetable ivory fans, rattans, leaf stalk fibre, leaves for thatch, and the like The only European species, Chamcrops humils, the Mediterranean fan palm is utilised for baskery, hats and vegetable horse hair See

Palma Jacopo Italian painter, known as Vecchio (old) Born at Seri malta near Bergamo in 1480, he was famous for the richness of his colouring, and for his portraits of women His most celebrated pictures are six paintings in the Church of S Maria Formosa at Venice with S Barbara in the centre and 'The Three Graces' in the Dresden Gallery He died in 1528

Palmas Las Chief city of the Canary resort It has a considerable harbour, and is a coaling station and port of call for numerous ocean going steamships Shipbuilding and fishing are the principal industries Fruit and cochineal are exported Pop (1931) 79 444

Palmer Mondicant pilgrim of palm be tokening the fact that he had visited the Holv Land He had no dwelling place, but journeyed from shrine to shrine, existing entirely on charity

Paimerston Viscount English statesman Born at Broad lands near Romsev, Hants, Oct. 20 1784 Henry John Temple became 3rd viscount in 1802, entered Parliament in 1800 and was Junior Lord of the Admiralty and Secretary at-War, 1809 1828 In 1830 he became Foreign Secretary under Earl Grey but went out with the Whigs in 1841 He was Foreign Secretary again in 1846 under Lord John Russell In 1850 a vote of censure on his foreign policy was carried in the House of Commons but defeated in the Lords In 1851 he angered the queen by expressing approval of the coup d'état of Louis Napoleon without consulting her and was forced to resign He was Home Secretary under Aberdeon in 1852 and Prime Minister in 1855, when he vigorously prosecuted the Russian War Defeated in 1867, he came back was again defeated, and in 1859 again Prime Ministor, retaining office until his death Oct. 18, 1865 He is buried in Westminster Abbey

Palmistry Art or practice of reading the land It comprises chirognomy, or character reading, and chiromanev, or foretelling the future, and operates by inspection of lines and markings on the human palm This form of divination of great antiquity, has developed a complex system of interpretation, entirely non rational which names the thumb and fingers after certain planets, and draws lines over the palm to represent life, fate and love, crossed by others which represent head and heart. See FORTUNE TFLLING

Palm O11 Fatty substance from the fruits of several palms preeminently the W African oil palm Elacis guincensis The boiled pericarp yields an orange red fat, comprising tripalmitin and triolein, which melts at 80 5°F It serves for making soap, candles and railway carriage grease Palm kernels vield a white oil used like eccount oil in making margarine

Palmyra Ancient city of Syrla Situated in a desert onsis 120 m NE of Damascus, its Old Testament name Tadmor still survives Under the Roman Empire its position on the Euphrates caravan route made it influential and opulent as magnificent ruins attest. Prominent under Hadrian, it enjoyed a brief 3rd century independence, culminating in Queen Zenobia's capture by Aurelian 272

The Palmyra Palm is a tree indigenous to India and Indo China with a tropical African

The Palmyra Palm is a tree indigenous to India and Indo China with a tropical African variety (Borassus flabellifer) It yields sugar, toddy, matting, basketry, fans and timber

Pamir Mountainous region of Central accentral knot 13,000 ft high and upwards, from which radiate ranges and rivers into NW India, Russia, Chinese Turkistan and Afganistan. The N slope drains into the Aral

Sea and the Tarim basin, the S, connects the frequented by anglers Hindu Kush and Karakoram ranges

Pampas Plains of Argentina They extend from the Andean foothills They exto the Parana River and the Atlantic coast The sandy and clayey soll resembles Russian steppeland The E treeless grasslands support cattle, sheep and horses, and produce wheat The more sterile W includes saline deposits The grasslands produce pampas grass, Cortaderia argentea It forms tufts of leathery leaves 5 to 7 ft long, and stems bearing dense sliky silvery-white punicles 10 to 12 ft. high Pampas Indians is the collective name for S American Indians of the Argentine plains

Pan In Greek mythology the god of shepherds, huntsmen and rural people, also protector of flocks and herds, wild beasts and bees Chief of the Satyrs and inventor of the syrinx or Pan's pipes, he is supposed to have inspired sudden fear, hence the word panic. He is represented with two small horns and lower limbs of a goat.

Panama Central American republic Its area is 32,380 sq m Pop (1930) (excluding Caucl Zone) 467,459 The inhabitants are mostly a mixed race of Spanish, Indian and Negro origin The state is adminis tered by a president assisted by three vicepresidents and a cabinet of five ministers, and is divided up into nine provinces The capital, Panama, had in 1930 a pop of 82,827 is a university at Panama.

Panama Canal Canal conne connecting Pacific Oceans It was constructed as the result of a treaty (1903) between U.S an I Panama granting the use and control of a zone 5 m wide on each side of the canal route The canal is about 40 m long from deep water The canal is about 40 m long from deep water in the Caribbean to deep water in the Pacific. The width is from 300 to 1000 ft and the minimum depth 41 ft. The average time of passage is 7 to 8 hours Informally opened to traffic Aug 15, 1914, landslides caused interruptions up to 1917, but since then the channel has been kept clear The official opening was on June 12, 1920 The Hay-Pauncefote Treaty (1901) provides for the use of the canal under equal terms by vessels of all nations In 1934 over 5500 vessels passed through the canal through the canal

Pancras Patron saint of children Born in Phrygla of noble parentage, he refused to renounce Christianity at Dio-cletian s bidding, and was beheaded c 293 when 14 years old He is commemorated on May 12 A London borough and several British churches bear his name, as did the Cluniae Priory, Lewes

Pancreas Large glandular organ situhaving a duct opening into the small intestine close to the bile duct. It secretes an alkaline digestive fluid which converts starch into sugar, fats into giveerine and fatty acids, and pep tones into aminoacids In addition an internal secretion insulin, is concerned in the assimilation of glucose

Pandora In Greek mythology, according to Hesiod, the first woman upon whom the gods lavished their choicest gifts Though forbidden to do so, she opened a box containing all human ills and allowed these to escape, but managed to save the good

training officers for the mercantile marine. It has a college for

forward by Charles Darwin to explain the parts of the body According to this beautiful the body thesis each cell of the control of the body and the control of the body thesis each cell of the body the control of the body thesis each cell of the control of the c parts of the body According to this hypothesis each cell of the body throws off minute germules which ultimately become stored in the egg cells, and on development reproduce each part of the body

Pangolin Genus of toothless mammals (Manis) occurring in S Asia and tropical Africa Short-legged, with lizardand tropical Africa Short-legged, with lizard-like bodies and tails protected by overlapping horny scales, they roll into a ball when dis-turbed Called also scaly anteators, they capture termites with their long, worm-like tongues There are three Asiatic and four African species, the largest 6 ft long

Pankhurst Emmeline fragist British suf-Hankhurst Emmeune British suf-fragist Born July 14, 1858, she was the daughter of Robert Goulden of Manchester, and married, 1879, R M Paukhurst, barrister and advocate of woman's suffrage (d 1898) She helped to found the Woman's Franchise League (1889) In 1903 she was instrumental, with her daughter, Christabel, in founding the Women's Social and Political Union Arrested in 1908 for breaches of the peace, she was imprisoned, but was released on grounds of health Imprisoned in 1912, she went on hunger strike, and was released In 1913 she was sentenced to 3 years penal servitude, but again refused food and was released During the Great War she lent has organization to the again. her organisation to the cause of recruiting and munitions With the extension of the suffrage to women in 1918, she joined the Conservative Party She died June 14, 1928

Pansy (Prola tricolor), indigenous to Europe, N and W Asia and N. Africa From parions species and subspecies have been Perennial herb of the violet order various species and subspecies have been derived innumerable hybridised forms much esteemed by gardeners, including selfs, white grounds and yellow grounds, besides the bedding varieties called tufted pansies or violas The French name is pensee, "thought" Ser HEARTSEASE

Pantheism Metaphysical doctrine which identifies the universe with God The term, "all-God," introduced by John Toland, 1705, denotes a system of thought or attitude of mind the control of the control o of thought or attitude of mind traceable in ancient India, in certain of the Greek philosophers and in such modern philosophers as Spinoza, Fichte, Schelling and Hegel A form of monism, it is a thousm or an atheism according to the emphasis placed upon personality

Pantheon Name, "belonging to all gods," applied to the best preserved ancient temple in Rome Erected by Hadrian, A D 120-4, it occupied the site of an earlier temple built by Agrippa in 27 B C. Consecrated 609, it is now the Church of Santa Maria Rotonda The Panthéon in Paris, built in 1754-90, dedicated as a church to S Geneviève, was set, apart as a mausoleum for illustions was set apart as a mausoleum for illustrious Prenchmen, 1792

Panther Large carnivorous mammal of the cat family indistinguishable from the Old World leopard (qv) Medieval fabulous bestlaries regarded thom as distinct. Pangbourne Village of Berkshire on fabulous bestlagies regarded them as distinct. Modern sportsmen tend to call panthers the of Reading and on the GW Rlv It is much larger, and loopards the smaller examples. In Modern sportsmen tend to call panthers the

the system under which the Pope, as successor of S Peter and Vicar of Christ governs the Catholic Church as its supreme head, and (2) historical, signifying the papal influence viewed as a political force in history Up to, and including, the Middle Ages the history of the Papacy was to a considerable extent the history of Europe and under Innocent III in the 13th century the Popo became a sort of emperor England for a time being practically

governed by his legates Thanks to bequests and voluntary grants, a temporal Papal State grew up with, at length, an area of 17,000 sq m, and Rome as the centre of government. After the Austro talian War of 1859 nearly two thirds of this territory was added to the kingdom of Italy, Rome and its environs being preserved for the Pope by the French In 1870 Rome was adopted as the seat of government of united Italy, and the Papacy restricted to the Vatican The temporal power of the Pope remained in suspense until 1929 when, by the Treaty of Feb 11, the full and independent sovereignty of the Holy See in the city of the Vatican was recognized and payments were according to recognised, and payments were agreed upon in settlement of the Vatican's claims for com pensation for loss of temporal power The outstanding ecclesiastical event in the recent history of the Papacy was the affirmation of the infallibility of the Pope in 1870

Papaw Small evergreen tree akin to the passion flower order, of S

naturalised throughout the tropies, its long stalked seven lobed leaves, 2 ft across, shelter melon shaped yellow fruits 10 in long They are eaten raw, boiled or pickled The unripe fruit yields the digestive forment papain.

Papen Franz von German politician
Born Oot 29, 1879, he entered
the army, later joined the diplomatic service,
and in 1914 was an attaché in Washington
There he worked hard in his country's interests and against the Allies, on this account the United States Government secured his recall to Germany in 1915 He then went to Gallipoli as a staff officer In 1931 Papen was elected a member of the diet of Prussia, and became the chief proprietor of the newspaper Germania A member of the centre party he supported the ministry of Dr Brilning, whom he succeeded as chancellor in May, 1932 In March, 1933, he became Reich Commissioner for Prussia and in July, 1934, special German minister in Vienna

Paper Material made from fibrous vege table pulp and used for writing and other purposes. The art of paper making was practised by the Chinese and Japanese in early times by the Arabs after the 7th century, and by the Moors in Spain in the 12th century From Spain it spread over Europe to England where the first paper mill was established the content of the first paper mill was England where the first paper mill was established in the 15th century

The first paper was hand made from rag fibres, but now numerous fibrous materials are used in addition, including straw, esparto grass and chemical and mechanical wood pulp The introduction of machinery about 1798 revolutionised papermaking and the invention of the sulphite process for making chemical

N America the name, colloquialised as painter," denotes the puma (qv), which in S America is sometimes called the cougar (qv) made from paper pulp and used for making Papacy

The Term employed in two sonses (1) ecolesiastical, denoting architectural decoration. It is prepared by made from paper pulp and used for making boves, trays and similar articles, for internal architectural decoration. It is prepared by pressing pulp into moulds or by subjecting pasted sheets of paper to high pressure Papler mache may be japanned, varnished, gilded or inlaid

Papua (British New Guinea) South-Guinea (qv) with other small islands in the vicinity Area, 90,540 sq m of which 87,788 are on the mainland Pop (1932) Europeans, 1144, Papuans (estimated), 275,000 Papua is administered by the Australian Common wealth under the Papua Act of the Federal Parliament (1935) Parks of enter are Part Weath under the Papint Act of the Federal Parliament (1905) Ports of entry are Port Moresby, Samaral and Daru There is an important mining industry Rubber, coconuts and sisal homp are cultivated, and valuable mineral deposits and timber growths are worked There is a recoulse to once took between Port There is a regular steamer trade between Port Moresby and Sydney

Papyrus Kind of paper used by the pared by cutting into long strips the central pared by cutting into long strips the central pith of the stems of the paper rush, Cyperus papyrus, laying others across, moistening, pressing, drying polishing and writing upon it with a reed pen The rush, formerly plentiful in the delta, has receded to the Upper Nile but grows occasionally elsewhere Thousands of grows occasionally elsewhere Thousands of papyri have been collected in Egypt, including classical Greek texts Their study is called

Pará City and port of Brazil Sometimes Called Belem it is situated on the banks of the Para River and is the capital of the Brazilian State of Para It is the chief commercial centre of the Amazon districts, the rubber trade being the most important has a good harbour Pop (1930) 279 491

Parabola Term in geometry for a curved figure or conic section formed by the intersection of a cone and a plane parallel to one side. The form of the parabola varies as the cutting plane approaches the side of the cone

Paracelsus German physician Born about 1493, his real name was Theophrastus Bombastus von Hohenheim, his father being a Swiss physician He himself studied medicine, and acquiring fame as a practitioner, was appointed lecturer at Basic University His objectionable habits and His objectionable habits and violent temper brought about his expulsion and for twelve years he was a wandorer, settling finally at Salzberg, where he died Sept. 24, 1541

Parachute Form of life saving appara-tus used by aeronauts to descend safely from a height. In its usual form it consists of a silk fabric made in the shape of an umbrolla with cords attached at the circumference, and fastened to straps on the back of the person The parachute is carried in a bag fastened to the body of the operator, and is released either automatically or by means of a rip cord Parachutes have been known since the end of the 18th century, and the lirst successful descent from a balloon was made in 1797 by the French aeronaut, Garnerin

Paradise Word denoting an Oriental monarch's park or pleasance, variously translated in the Old Testament. It revolutionized paper natural and the microsity of the sulphite process for making chemical is used of an orchard of pomegranates in Cant. wood pulp brought about the production of it. R.V margin. It is the septuagint Greek cheap paper for newspapers etc.

Testament of an intermediate state (Luke xxiii, 2 Cor xii), or of the heavenly counterpart of Eden, Rev ii) The mediaeval conception of the Christian paradise was elaborated by Dante and Milton The Koran depicts in picturesque imagery the rewards of the Islamic paradise

Paraffin Term used in organic chemistry for a large series of hydrocarbons possessing similar chemical properties though differing in physical characters and molecular complexity More generally the term is used for a burning oil obtained from petroleum and shales, also for the solid wax-like substance from the same source Paraffin wax varies considerably in consistency from a jelly to a hard cake, and is used in pharmacy, candle, match and waterproofing industries, also as an electrical insulator

Paraguay South American Republic stuated between the Paraguay and Parana rivers and bounded on the north by Brazil and Boliria and on the south by the Argentine Paraguay proper has an area of about 62,000 sq m, but there is a larger tract of territory (the Chaco, qv) claimed by both Paraguay and Bolivia (qr) The total pop is about 800,000 It is a fertile country with excellent grazing land supporting millions of cattle Agriculture is the basis of the country's wealth One of the chief exports is Yerba maté or Paraguay tea Tobacco is also grown, and there is an important timber industry

The capital is Asuncion (qv) from which there is a railway to Encarnacion on the Parana River Roman Catholicism is the established State religion. There is a small defence force of about 100 officers and 2500 men. Legislative authority is vested in a Congress of two houses, a Senate and a Chamber of Deputies, the executive being in the hands of a President elected for a term of four vears, assisted by five ministers. In Aug. 1932 the dispute with Bolivia over the frontier territory broke out anew, and led to the Gran Chaco War. In 1933 the combatants refused the mediations of the League of Nations, and in 1935 Paraguay signified her intention to withdraw from the League. In June, 1935, an agreement was reached and hostilities came to an end

Parallax Astronomical term for the apparent change in position of a celestial body caused by a change in position of the observer, and especially applied to the amount of apparent motion due to this displacement. It is of great importance, as upon the determining of the parallax, astronomers can calculate the distance and magnitude of celestial bodies Diurnal or geocentric parallax is the apparent difference in position of a body as seen from the earth's surface and from the centre of the earth

as seen from the earth's surface and from the centre of the earth

Parallel Term applied in geometry to lines in the same plane that do not meet in either direction. With reference to latitude a parallel is a small circle whose plane cuts the earth's axis at right angles and which, therefore, has an east and west direction. In military science parallels are trenches dug parallel to the defences of a fortress to give cover to the beslexers.

Paralysis Loss of the power of muscular action, sensation or function in any part of the body. Associated, organically or functionally, with disorder in the brain, spinal cord or peripheral nerves, it may be general; affect one side only, hemi-

plegia, the lower half of the body, paraplegia, or be localised, eg facial paralysis, drop-wrist. Hysterical paralysis, without any discoverable lesion, may simulate any organic form. Paralysis agitans, shaking palsy, is a chronic discase of advanced life

Parana City and port of Argentina Founded in 1730 by colonists from Santa Fé, from 1852 to 1861 it was the capital of the Argentine Confederation Pop (1931) 66,204

Paranoia Chronic mental disorder characterised by systematised delusions of persecution Disturbances of various fundamental emotions and sentiments, such as vanity and fear, combined with a credulous constitution, may result in delusions of grandeur or persecution, other forms of the disease are amatory or querulous

Parasite In biology, any organism animal or vegetable, nourished wholly or partially at the expense of another organism upon or within which it lives Except for a few fishes animal parasites are invertebrate, including lice, scale insects, ticks, leeches, tape-worms and still lowlier forms Among parasitic flowering plants are dodders, broomrapes and mistletoe Parasitic plants are most frequently fungi and bacteria, and occasion many parasitic diseases in men, other animals and plants The study of parasites is called parasitology

TREATMENT FOR PARASITES Internal.— The usual remedy for tape worms is oil of male fern (1 drachm), given before breakfast after a fast from 6 p m the previous evening Four hours after the dose, and not sooner, give castor oil

External —There are three species of animal parasites acquired in uncleanly surroundings the Body Louse infests the underclothes, which should be thoroughly disinfected with steam, the Crab Louse is found on the hairy parts of the body and is got rid of by the application of antiseptic lotions and cintments, the Head Louse lavs its eggs (nits) on the hair near the roots, which must be soaked with crude parafiln or oil of sassafras for three nights

Paravane Appliance used in the Great War against mines and submarines The paravane was somewhat kiteshaped with a torpedo-like body. It was towed by a wire from a ship, being kept away from the sides by the action of hydrovanes and at a prescribed depth by a rudder controlled by hydrostatic valves. The head was armed with a cutter for severing the moorings of a mine, or with a striking device for exploding a depth charge when used against submarines.

Parcel Post System of transport and delivery by the Post Office of packages not exceeding specified weights and dimensions Highly organised in Great Britain, it includes carriage of parcels throughout the Empire and to most foreign countries, also facilities for registration, insurance and payment of cash on delivery of purchased articles Limits of weight for inland parcels, 11 lb, limit of size, length 3 ft. 6 in, length and girth combined, 6 ft. Parcels for abroad are subject to customs duty, and if containing dutiable articles a declaration respecting them must be signed by the sender

Parchment Writing material used for decds and other documents of a permanent character, and prepared from the skins of various animals Ordinary parch ment is made from the skins of the sheep and

goat. Vellum from the skins of the calf, kid or lamb, a tough variety for book binding from pig skin, and a parchment for drums from asses' skins The hair or wool is removed and the skin, after steeping, is stretched on a frame, scraped and rubbed with pumice

Pardon
Dispensation granted by the Popo, remitting that temporal punishment of sin which would otherwise be inflicted, either in this world by penance or in Purgatory Such pardons are called Indulgences and in the 16th century were the cause of much scandal owing to the sale of them by Pope Leo X, as a means of obtaining funds for rebuilding St. Peter's Church at Rome The Romish doctrine of "pardon" is repudiated by the Church of England in the 22nd Article of Religion

The name Pardon is also given to religious gatherings in Brittany associated with the desire of obtaining absolution for sins or cure for bodily allments The religious ceremonial is sometimes followed by a sort of village feast

Pardon In law the remission of the mission of a crime. By English law pardon is the sole preregative of the king, and is now exercised by delegation, the king acting on the representation of the Home Secretary The king, however, cannot pardon a privato, as distinct from a public offence, so as to prefudice a person injured by the offence, and the king's pardon cannot be pleaded as a bar to impeach ment by the House of Commons Pardon may be actual or constructive, the latter being obtained by endurance of the punishment. It may also be free or conditional on commutation of the sentence An Act of Indemnity is a species of pardon

Parent father or mother The parents till it attains the age of 21, or unless it marries before reaching that age The primary right resides in the father, but custody of the child may be granted to the mother under the Divorce Acts, the Infants' Custody Act and the Guardianship of Infants Act. Parents' liability for maintenance of their children is governed by statutes, the Act of 57 and 58 Vict imposing on them the duty of providing adequate food, clothing medicinal aid and lodging for children in their custody until the boys attain 14 years and the girls 16 Education of children and parents' responsibility for it is regulated by various Elementary Education Acts See Education See

Pariah Name applied by Europeans to any social outcast The Paratyans or Parlahs of the Tamil country in Madras are an agricultural caste, classed as untouchable, but not the lowest. Pariah dors in Oriental towns and villages are animals of domesticated origin which have become half wild.

Pari-Mutue! System employed in order to collect a tax on the amount staked in betting on the Turf It is on much the same principle as a cash register, every bet made being registered, and both the amount staked on each horse in a particular race and the total amount staked on all the horses in the race being shown publicly In the Totalisator (q v), which is superseding the Parl Mutuel, human agency is replaced by electrical power

agency is replaced by electrical power
Paris Small genus of perennial herbs of
the lily order, indigenous to temperate Europe and Asia Their short un

branched stems, rising from creeping rootstocks, bear a whori of 4 to 9 leaves with a single yellow-green flower whose fetid smell, attractive to files, assists cross fertilisation. A red berried species, *P polyphylla*, is grown in gardens See HERB PARIS

Paris In Greek mythology a son of as an infant on Mt Ida in consequence of a prophecy that he would cause the destruction of the city, he was reared by a shepherd, and lator gave judgment in the claim of the throe goddesses Hera, Pallas and Aphrodite, to a golden apple inscribed "For the Fairest." Deciding in favour of Aphrodite, he was revarded by the love of Helen (q v), wife of Menclaus Her abduction by Paris led to the slege of Troy in which Paris was slain

Paris Capital city of France The city couples both banks of the Seine and two islands, 110 m direct from the river a

Paris Capital city of France The city of cocuples both banks of the Seine and two islands, 110 m direct from the river smouth One of the world's greatest and most beautiful cities, it has developed in 2000 years from a group of huts (the Romans called it Lutetia, "the muddy") to be one of the world's leading centres of culture

Its historical importance dates from a p 508, when Carts (an) chose it as his centrel.

Its historical importance dates from A D 508, when Clovis (qv) chose it as his capital, building on the He de la Cité The decay of feudalism and the rise of the guilds in the 11th century hastened the city s growth, while the first municipal authority dates from the 13th century A great scholastic centre also, Parls, however, became more and more of political importance After 1559 the kings resided in the Louvre (qv) which had been rebuilt by Charles Y (1337-1380), in whose reign also the Bastille was built In 1422 the English took the city and held it against Joan of Arc in 1429

Joan of Arc in 1429 Modern Paris dates from the Renaissance Catherine de Medici began to build the Tuileries (v) in 1564, and the Pont Neuf was begun in 1577 Quays were constructed and the city spread, its rate of growth increasing under Louis XIV, the "Grand Monarque" (1638 1715), who, however, removed the royal residence to Versailles

Paris that received its importance during

Paris itself regained its importance during the Revolution and under Napoleon, becoming an industrial and economic centre throughout the 19th century and gradually merging with its suburbs. To day more than thirty bridges cross the Seine, and the public boulevards and squares are renowned for their beauty

squares are renowned for their occasion. Paris is rich in famous buildings Besides those already mentioned there are the cathedral of Notre Dame (1163 1230), the Hotal de Ville, Palais Royal, Champs Elysées, Palais de Justice, the Conciergerie (an ancient prison), Bibliothèque Nationale, Hôtal des Invalides (where Napoleon lies buried), the Sainte Chapelle the Panthéon, burial place of France's great men, the Arc de Triomphe, the Palais du Luxembourg with its wonderfui gardens the Opéra, Champ de Mars, and the Eiffel Tower St Germain l'Auxerrois is a well known church, and the cemetory of Père Lachaise is famous Montmartre, the Quartier Latin, the Bois de Boulogne, Auteuil and Longchamps are districts too well known to require description The chief educational institutions are the University of Paris and the

Transport by road river and rail is well organised while from the air Paris is well served by the great aerodrome at Le Bourget. It has eight broadcasting stations, the two most powerful operating on 1725 M., 75 kW, and

147 1 M, 07 kW The city's shops and res taurants are world famous her manufactures include almost every form include almost every form of industry. city is still a fortified stronghold with two rings of detached forts. Besieged and captured by the Prussians in 1870, it narrowly escaped a second capture in Sept., 1914, when taxicabs were hastily commandeered to rush every available soldier into the line of defence Area about 30 sq m Pop (1931) 2,871,039

Park Mungo Scottish explorer Born at Foulshiels on the Yarrow, Sept. 20, 1771, he was, by profession, a doctor His services were accepted in 1795 by the African Association, and, starting from Senegal, he reached the Niger at Sega, after an adventurous journey He traced the course of the river for some distance but fell ill and was brought back to Senegal after an absence of nineteen months From 1801-1803 he practised as a doctor at Peebles In 1805 he undertook another African journey, this time at government expense Starting from Pisania on the Gambia, he reached the Niger, but was attacked by natives and drowned in Jan 1806

Parker Sir Gilbert British novelist. Born in Canada, Nov 23, 1862, he was educated at Trinity College, Toronto After travelling extensively he organised the first Imperial Universities Conference in London, 1903 He was M P for Gravesend London, 1903 He was MP for Gravesend from 1900-18, was knighted in 1902 and created a baronet in 1915 He was Chairman of S African Association for nine years and took charge of American Publicity in the Great War His writings include poems, plays and novels, the last-named dealing largely with French Canadian life He also wrote a History of Old Quebec in 1903 A later publication was The Promised Land (1928) He died in 1932

Parkes Sir Henry Australian statesman. Born at Stoneleigh in Warwickshire, May 27, 1815, he emigrated at the age of 24 and engaged in journalism at Sydney His able discussion of public questions led to his being elected in 1854 a member of the Legislative Council In 1866 he became a member of the ministry in which he subsequently of the ministry in which he subsequently held several offices, becoming Premier of New South Wales in 1872 He was premier five times, and was a warm supporter of Free Trade He died April 27, 1896

Parkhurst District in the Isle of Wight called Parkhurst Forest. At one time there was a military station near The prison can accommodate more than 700 convicts

Park Lane Fashionable London thoroughfare overlooking Hyde Park and running from Piccadilly to Oxford St. It has important historical associations and contain the manufacture of more realizable and contain the manufacture of the contain the manufacture of the contain the manufacture of the contain t tions and contains the mansions of many wellknown figures in modern life Some of the old houses have now been demolished, and hotels erected in their place

Parkstone Summer resort in Dorset Bournemouth, on the S Rly. Pop 6550

Parliament Word used for the legis and other self governing parts of the British Empire It should be distinguished from the parlements of Frince before the Revolution which were in the main judicial bodies

The English Parliament has been developed from the Witan of the Anglo-Saxon kings and the King's council of the Normans Those

bodies met to advise the king on important matters of state, they were without any rules of membership and met when the king required them In the 13th century knights of the shire and representatives from the town joined the barons, abbots and bishops who had hitherto formed the council, and with their arrival parliament in the modern sense began Simon de Montfort first called men from the towns, and has been called the founder of parliament, but it was Edward I who assembled, in 1295, the model parliament that was a pattern for later legislatures

At first parliament was an assembly of one house, but early in the 13th century it was divided into two, a form it has since retained, the House of Lords and House of Commons The Lords were much more powerful, the Commons being merely asked for their assent, which was usually taken for granted, but gradually the Commons made themselves equal to the Lords and in the 19th century became definitely the dominant partner. This was due to the control they acquired over finance, and after a time it became the rule that finance was the province of the Commons

At first, like a witan or a council, a parliament met wherever the king happened to be and sat for as long as he wished. A careful king sat for as long as ne wished. A carried king could do without a parliament perhaps for vears, but one who wanted a good deal of money, as did Henry IV, was obliged to call frequent parliaments. The Tudor sovereigns managed to make their parliaments register their will, but in the time of the Stuarts there was the memorable struggle between king and carliament. parliament, which became a civil war 1689 parliament made a settlement of the crown, and in 1694 passed a triennial act, which said that not more than three years must pass without the calling of a parliament. This was due to the action of Charles I and Charles II, each of whom ruled without a parliament for a long period

Parliamentary government, or the control of the executive by the legislature, especially by that branch which represents the people, was a direct consequence of the victory of the parliament in the Civil War, but it only took shape at the Revolution of 1688 In 1715 a septennial act was passed by which a parlin-ment could sit for seven years, and this remained the law until 1911, when the Parliament Act reduced the period to five years Nevertheless, parliament, being a sovereign body, can prolong its own existence as it did during the Great War The Parliament Act during the Great War The Parliament Act of 1911 made the House of Lords subordinate of 1911 made the House of Lords subordinate to the House of Commons The Lords is now a revising chamber only It can delay the passing of a bill into law for two years, but that is all If the Commons, under the required conditions pass a measure three times that bill becomes law, whether the Lords oppose or not Money bills cannot be touched by the Lords

A parliament is called together by the sovereign. Its sittings are divided into sessions, soverum. As sittings are divided into sessions, each occupying a year or thereabouts, and each opened by the king or his representative Each session is prorogued but a parliament is dissolved. This is done on the advice of the Prime Minister and a general election must follow.

The parliaments in Canada, Australia, South Africa and elsewhere follow very largely the British model, both in constitution and practice except that their second chambers contain no hereditary elements and have rather more

Parma City of Italy It lies in a fortile tract of the Plain of Lombardy The Royal University of Parma, founded 1601, now has faculties in law, medicine and natural science Considerable trade is carried on in grain, cattle and dairy produce Pop (1931)

Parma Duchy of Papal possession from 1512 1545, when the Pope Paul III (Alexander Farnese) invested his bastard son, Pierluigi, with the duchies of Parma and Placenza. There were eight dukes of Parma from 1545 to 1731 The duchy then passed and repassed alternately into the hands of Spain and Austria till 1860, when it was formally incorporated into the Kingdom of Italy, becoming a province with an area of 1334 sq m and a pop (1931) of 373,695 Capital, Parma.

Parmoor Baron English politician Charles Alfred Cripps was born Oct. 3, 1852, and educated at Winchester and New College, Oxford Called to the bar in 1877 he became a QC in 1890, and made a great reputation as an ecclesiastical lawyer He was elected M P for the Stroud Division of Glouces tershire in 1895 representing that constituency until 1900 Later he represented Strettord, Lancs, and Wycombe Division of Bucks He was made a K C V O in 1908 and elovated to the peerage in 1914 Specially appointed a judicial member of the Privy Council in 1914, he became Lord President of the Council in th Socialist Ministry of 1924 and held this post again from 1929 31 He has written on Principles of Compensation and The Laws of Church and Cleryy

Parnassus Mountain range in the principal feature of which is the mountain of the same name, 8000 ft in height, and famed in Greek mythology as the abode of the Muses Near the summit was the Castalian spring draughts from which were supposed to give poetic inspiration. On the lower slopes was the cave of Delphi (qv) from which oracles were delivered by the Pythoness

Charles Stewart Irish National ist politician Born June 27 Parnell Charles Stewart ITEM Name 27 1846, he studied at Cambridge and in 1876 was returned as a Home Ruler for County Meath Throwing himself energetically into Irish political affairs, he skilfully organised the Irish Party in the House of Commons and ruled it with a rod of iron Having initiated a system of deliborate obstruction in Parlia mentary business he and his followers acquired considerable influence and, after wrecking the first Salisbury Government, contracted an first Salisbury Government, contracted an alliance with Mr Gladstone in the hope of alliance with hir Gladstone in the hope of realising Irish Home Rule ambitions Attacked by The Times for his supposed complicity in Irish crime Parnell brought an action and obtained £25,000 damages An entanglement in a divorce case led to the loss of his leadership of the Irish Party and his withdrawal interprets life. He did at Party and his withdrawal into private life He died at Brighton, Oct. 6,

Parotid Gland Name given to the Parotid Gland Name given to the glands, situated below and in front of the ear and filling the recess beneath the angle of the An inflammatory condition of the parotid gives rise to the disease known as mumps and it is also the seat of tubercular abscesses.

power than the House of Lords See Commons, House of, Lords, House of, Lords, House of City of Italy It lies in a fortile Parma City of Italy It lies in a fortile reputed year of his birth, 1483, has been the Royal University of Parma, founded 1601. called, was a Shropshire farm servant and after marrying his second wife at the age of 120, went on working for a further ten years He went to London to see Charles I, and died from a surfeit of royal hospitality in 1635

Parrakeet Name indefinitely applied to various small parrots, often with long and slender tails Among aviary favourites are the red billed genus Palacornis, including the Indian rose ringed, ring necked and blossom headed parrakeets Australian budgerigars and other grass parrakects are favourite cage birds. There are also swamp parrakeets and ground parrakeets See LOVE BIRD

Parramatta Town of New South Wales. and orangeries It has a well known public school, King's School Pop (1931) 16,760

Parrot Order of birds of high intelligence and organisation inhabiting tropical and subtropical regions (Psitian) The upper jaw is hinged to the skull They are usually expert climbers, each foot having two toes forward and two backward Of 500 species S America has most followed by the E Indies, Australia and Polynesia, a few in Asia and Africa, and one in N America Many have gorgeous colouring, the sexes being usually Some readily learn to talk, especially African grey parrot. See COUKATOO. the African grey parrot. LORY, MACAW, PARRAKEET

Parry Sir Charles Hubert English com-English com-27 1848, he was educated at Eton and Exeter College Oxford He obtained his Mus Bac 27 1848, he was educated at Eton and Exeter College Oxford He obtained his Mus Bac at age of 18, Mus D, Cambridge, 1863, Oxford, 1884, Dublin, 1891 and was knighted, 1898 He became First Professor and later Principal of the Royal College of Music, Choragus of Oxford University, 1883, and Professor of Music in 1900 His works include concertos, symphonics and other compositions He also wrote on music in Grove 8 Dictionary and his Studies of Great Composers and The Evolution Studies of Great Composers and The Evolution of the Art of Music are recognised classics of musical literature He died Oct. 7, 1918

musical literature He died Oct. 7, 1918

Parry Sir William Edward Arctic explorer Born at Bath, Dec 19, 1790, the son of an eminent physician, he entered the Royal Navy and served against the Danes in 1808 In 1810 he was sent to the Arctic for protection of the whale fisheries Later he took part in five Arctic expeditions, four of which he commanded throughout. The first, under Sir John Ross (a v.), was in 1818, the others in 1819, 1821 23, 1824 20, and 1827 The last was an unsuccessful attempt to reach the North Pole on sledges from Spitzbergen The last was an unsuccessful attempt to reach the North Pole on sledges from Spitzbergen To his credit is the discovery of Barrow Strait and Melville Island Knighted in 1829 and appointed Departmental Comptroller in 1837, he became Superintendent of Haslar Hospital in 1846 He was made rear admiral, 1852, and governor of Greenwich Hospital, 1853 He died July 8, 1855

Parsees (or Parsis) Religious commun-ity in India and parts of Persis At the 7th century Arab conquest many Persians who refused to embrace Islam the to Gujarat, taking with them their Zoroastrian faith, most of them afterwards settled in

Parsley Biennial umbelliferous herb, perhaps of Mediterranean origin (Petroselinum crispum) Introduced into Tudor England, its crisp, curled, mossy leaves are much used when fresh for garnishing, and either fresh or dried for flavouring A Hamburg variety, with turnip shaped root, is boiled for use in soups or caten as a separate dish

Parsnip Blennial umbelliferous herb, native of Europe and Siberia (Peucedanum sativum) Wild in Britain, its thin, woody root has become, under cultivation since Roman times, a long, succulent, whitish, tapering root, palatable and nutritious, containing sugar, and surpassing the carrot as a milk producing cattle food. It also serves for making country wine. See Cow Parsylp

Parsons Sir Charles Algernon British engineer and inventor of the steam turbine Born June 13, 1854, the fourth son of the 3rd Earl of Rosso, he was educated privately and at St. John's College, Cambridge He founded the firm of C A Parsons & Co, Engineers, Heaton, Newcastle-on-Tyne, and was also Chalrman of the Parsons Marine Steam Turbine Co. Ltd. and Chairman of Rosso Ltd. Was also Chairman of the Parsons Marine Steam Turbine Co, Ltd and Chairman of Rosse Ltd, Optical Works, Clapham Common He was created K C B, 1911 and given the O M. 1927 He was President of the Institute of Physics, British Association, and North-East Coast Institution of Engineers and Shipbuilders He died Feb 12 1931 He died Feb 12, 1931

Parsonstown (or Birr) To Office, Irish Town in sh Free State, 62 m W S W of Dublin In the castle, belonging to the Rosse family, there is an observatory containing the great reflecting telescope installed by Lord Rosse, with which important astronomical discoveries have been made. made Pop (1926) 3,391

Parthenogenesis Term in biology reproduction in which an individual is developed from an unfertilised egg-cell In some types parthenogenesis has reached a stage where the male is absent entirely as in some gall files and saw flies in others such as the aphides or green fly males appear after a succession of parthenogenetic stages. In the honey bee the eggs of the queen bee if unfertilised develop nevertheless and become males

Parthenon Temple at Athens dedicated to Pallas Athene Considerable ruins are still in existence It was siderable ruins are still in existence. It was begun about 450 BC, under the direction of the sculptor, Phidias. It was 227 ft long and 101 ft in breadth and was pure Dorie in style. In beauty of design and decoration it has no equal. It suffered damage during a siege by the Venetians in 1687, and some of the sculpture was removed by Lord Elvin in 1812. These was removed by Lord Elgin in 1812 These pleces are in the British Museum under the name of the Elgin Marbles (q r)

Parthia In ancient geography a country SE of the Caspian and E of Modia The Kingdom of Parthia, which had previously belonged to the empire of the Selectidae lasted from about 250 BC to about AD 190 The Parthian Army consisted chiefly of mounted archers, and from their habit of turning and shootling their arrows when in feigned retreat the term "Parthian glance" is derived The Parthians were long in conflict with Rome and in 53 BC, defeated and slew

Pasha Turkish or intrasts

Originally it was bestowed only on military commanders who were graded according to the one, two or three horse tails which they were empowered to display when on a campaign as symbols of authority Later the title was granted also to civilian high officials, Christian as well as Moslem, in Turkish or Egyptian service

Passchendaele Low ridge in Belwith Rome and in 53 BC, defeated and slew

Bombay Their descendants, still speaking Grassus. They were finally subdued by Trajan, Gujarati now comprise 111,853 in India, and about 10,000 in Persia

Parsley Biennial umbelliferous herb, perhaps of Mediterranean origin perhaps of Mediterranean origin in Trajan, Grassus. They were finally subdued by Trajan, Antoninus and Caracalla

Partick Suburb of Glasgow, separated from it by the Kelvin It has shipbuilding yards and paper staining, flour milling and other bendance and paper staining. milling, machine-making and other hardware industries

Partnership Defined in the Partnership Act of 1890 as " the relation which subsists between persons carrying on a business in common with a view to profit "The relation, however, between members of a company registered under the Companies Act or formed by Royal Charter is companies Act or formed by Royal Charter is not a partnership within the meaning of the Act A private partnership cannot be formed of more than 10 persons for banking or 20 for any other business A "sleeping partner" may participate in the profits without taking any active share in the management and without appearing to the world to be a partner, but, like any other partner, he is responsible for the firm's debts Many other regulations and conditions are set forth in the Act

Partridge Name denoting various game birds of the phensant sub-family The British grey partridge, Perdix cinerea, preferring arable land, extends throughout Europe, being associated in Asia with related forms The red-legged or French partridge, Caccabis rufa, a native of SW. Europe introduced into Britain about 1770, is now common, especially in eastern England, preferring uncultivated moorland Par-tridge shooting in Great Britain and Ireland is legal from Sept. 1 to Feb 1 Sec GAME

Partridge Sir Bernard English artist
1861, son of Professor Richard Partridge,
F.R.S., President of Royal College of Surgeons,
he was educated at Stonyhurst College and
worked from 1880 84 in stained glass designing worked from 1880 34 in stanied glass designing and decorative painting, subsequently in book and press illustration. He joined the staff of Punch in 1891, later becoming its chief cartoonist, and was knighted in 1925.

Pascal Blaise French philosopher, and particular and calculated.

mathematician and scientist 9, 1623 of Cl Pascal Born June 19, 1623, at Clermont-Ferrand in Auvergne, he was the son of a president of the Court of Alds who settled later first in Paris and subsequently in Rouen At the latter and subsequently in Rouen At the latter centre Blaise came into close touch with the Jansenists, with whose doctrines he became identified To this period belong various scientific studies and researches, including the large constitution of the latter centre of the latter cent Puy de Dome experiments on atmospheric pressure and the invention of an ingenious calculating machine In 1647 Pascal returned to Paris, and in 1654 underwent a second conversion His famous Provincial Letters, an ironical exposition of Jesuit moral theology (1856-57) created a profound separation and (1656-57), created a profound sensation and are still regarded as models of style. Of his Pensées, first published posthumously in 1669, numerous editions—French and English -have appeared He died Aug 19, 1662

NE of Ypres, the scene of heavy fighting in the Great War In June 1917, the Second British Army under Sir Herbert Plumer advanced and stormed the Messines Wytscheete Ridges, but it was not until Nov 6 that the Passchendacie Ridge was carried, and the Third Battle of Ypres concluded. In the great German offensive of March April, 1918, Passchendacie was necessarily abandoned, but was recently advance of the Allies Journalem April of the Gestruction of the April of the Gestruction of the Allies Journalem April of the Gestruc recaptured in the general advance of the Allies shortly before the conclusion of the Armistice

one time he was a clerk in the lower division of the War Office A noted economist, he became, in 1912, professor at the London School of Economics In 1922 he entered Parliament He has been a member of several royal commissions and numerous departments!

Passport A permission to travel neces foreign countries, and, when granted, ensuring some measure of protection Passports are granted by the Foreign Office to natural horn committees. committees In the Socialist Ministry of 1924 he was President of the Board of Trade, and in 1929 he became Secretary of State for the Colonics Ho is the author of many works on

economic and social subjects

Lady Passfield, better known as Beatrice Webb, is the daughter of Richard Potter, at one time Chairman of the GW Rly She is keenly interested in social and industrial questions, and was a member of the Royal Commission on Poor Law and Unemployment, 1905 09 She is the author of The Co operative Movement in Great Britain and, with her hus band, whom she married in 1892, of the History of Trade Unionism and other works She published an autobiography in 1926 In 1933 appeared a biography, Sidney and Beatrice Webb, by Mrs Mary Agnes Hamilton

Passion The Term denoting the suffer of Jesus Christ from the agony in the Garden to the death on the Cross The recital of these sufferings in the early church at Passiontide was accompanied by the chanting of the narrative portions by selected male voices, and the choral represen-tation of the crowds Under Reformation influence musicians wrote definite compositions, exemplified pre-eminently in J S Bach's Passion of St. Matthew Representations in art are also called Passions, e.g., Albert Dürer's

Passion Flower Large genus he horbs and shrubs (Passiflora) natives of tropical S America The common blue passion flower, P

Passion of Discalced Clerks of the Most Holy Cross and Passion of our Lord Jesus Christ.
Founded by S Paul of the Cross, 1720, it received papal sanction, 1737, and reached Britain 1841, the headquarters since 1876 being at Highgate

Passion Play Religious drama pre Christ's passion A form of mystery or miracle play characteristic of Mediaeval Europe, it has survived at Oberammergan (qv) In 1930 play characteristic of Meuneyan (qv) In 1930 the play was presented 33 times, May Sept. by about 600 of the villagers as a religious act

Passive Resistance to describe deliberate refusal on conscientious grounds to comply with laws, regulations or orders, coupled with willingness to undergo the prescribed penalties. Anyone submitting to imprisonment in consequence of non payment of what he or she considers to be unjust rates of what he or she considers to be unjust rates or other dues is a passive resister.

Pateley Bridge Market town of Pateley Bridge Market town of the Ridge Marke

Jorusalem, A D 70 That of unleavened bread alone is still observed by Jews, that of the Pentateuchal Passover by the Samaritans

granted by the Foreign Utilice to natural born British subjects, and to persons naturalised in the UK, in the British Dominions and Colonies and in India Applications must be accompanied by two copies of the applicant's photograph and a signed declaration in accordance with the Regulations British passports are only available for travel to the countries named thereon, but may be endorsed for additional countries They must renewed after two years from date of issue

Pasteur Louis French chemist. Born at Dôle, Dec 27, 1822, he studied at Besançon and Paris, where in 1867, after holding academic posts at Strasburg and Lille he became Professor of Chemistry at the Sor bonne He was elected member of the French Academy in 1893. His presented in the contract of the Presented Heroscheme in 1893. Academy in 1882 His researches in fermentations proved of great value in the manufacture of vinegar and the prevention of wine diseases Thanks to his experiments prophylactic treatment of diphtheria, tubercular disease, cholera, yellow fever and plague, as well as hydrophobia, has become possible He died Sept. 28, 1895 In 1888 the Pasteur Institute was founded by

public subscription as a research laboratory PASTEURISATION Method of preserv Method of preserving milk and rendering harmless any disease germs it may contain, particularly tubercle bacilli The milk is kept for half an hour at a heat of 145 150° F, and then cooled In some countries pasteurisation is enforced by law before milk

can be sold

Pastorale (1) A kind of operetta on themes originating with the Renaissance stagings of Virgil's Eclorus and culminating in the spectacular ballets of the French Court in the 17th century, of which Lully's Acis and Galathte is an example (2) An idyllic composition conventionally in compound time with simple melody sometimes a drone bass

Patagonia Region of S America 1 Magellan 1520, it comprises the southern extremity of S America and has been divided politically since 1881 between Chile and the Argentine the Andes forming the boundary aboriginals, who were of unusually stature, are now nearly extinct. Coal is found in the Argentine section, and in the Chilean large tracts are devoted to sheep farming East of the Andes Patagonia is largely an elevated plateau Western Patagonia is damp and forested

right of making, using or selling his invention during a specified period It is essential to the ralidity of the patent that the subject-matter of it should be an invention, that the invention should be new, and that it should be useful, te should be new, and that it should be useful, te fulfil the purpose for which it was designed by the patentee. In applying for a patent it is usual to submit a Provisional as well as a Complete Specification, and the former, if filed separately and accepted, gives protection for nine months. The Complete Specification is the final basis of the patent and, if unopposed and the regulated fees are paid, the grant of the patent remains in force for a period not exceeding sixteen years. Infringement is actionable. Most foreign countries have their exceeding sixteen years actionable Most foreign c own patent laws and the cost of a world-wide patent may run into hundreds of pounds

Patent Office Bentish government. It deals with all applications for Letters Patent in Great Britain and is situated in Southampton Buildings, Chancery Lane, London, W C 2. At its head is a Comptroller-General The Patent Office publishes specifications of accepted in ventions It has an excellent reference library

Pater Walter Horatio English critic and man of letters Born in London, Aug 4, 1839, he was educated at King's School, Canterbury, and Queen's College, Oxford His works, which are famed for their style, include Studies in the History of the Renaissance (1873), Marius, the Encurean (1885), Imaginary Portraits (1887), Appreciations (1889) of Lamb, Wordsworth, Coleridge and others, and Miscellancous Studies, posthumously published in 1895 He died and others, and Miscellancous Studies, posthumously published in 1895 He died at Oxford, July 30, 1894, leaving unfinished a medieval romance, Gaston de la Tour, which was subsequently published in 1897

Paternoster Row London thorwas famous in Queen Elizabeth's time for its taverns Pepps, in 1660-86, paid soveral visits to the mercery shops which then flourished here At No 38 Robinson Crusoc was published in 1720 Nos 48-49 occupy the site of the "Old Chapter" Tavern, frequented by Goldsmith This became the Chapter Coffee House at which Charlotto and Anne Bronto lodged on their first visit to London in 1848. oughiare on their first visit to London in 1848.

Pathan Name applied throughout India Pathan Name applied throughout India NW Frontier Province and to related transfrontier tribes in E Afghanistan Of Moslem faith, their language is Pashto
Pathology Study of disease It seeks to determine the causation of diseases, their anatomical and physiological features, and the structural changes and morbid processes which they present Besides human and animal diseases, bodily and mental, plant-diseases are also the concern of pathology. Experimental pathology studies morbid processes induced artificially in other organisms

Pating Greenish, varnish-like film

Patina Greenish, varnish-like film which forms on ancient bronze and copper through exposure to atmospheric conditions It can also be produced by the action of certain chemical substances conditions

Patio Architectural term derived from the Spanish and applied to the open courtyard or enclosure connected with many houses in Spain and Spanish-American countries

Patent Grant from the Crown by Letters Patmore Coventry Kersey Dighton. Patent to an inventor of the sole at Woodford in Essex, July 23, 1823, he was during a specified period. It is essential to the a librarian at the British Museum from 1847

a librarian at the British Museum from 1847 to 1868 His first volume of poems was published in 1844, his second in 1853 His best-known work, The Angel in the House, dealing with domestic love, appeared in 1854. Collected editions of his poems were issued in 1878 and 1886 He died Nov 26, 1896

Patmos Aegean island Small and mountainous, one of the Sporades, in the Grecian Archipelago off the W coast of Asia Minor, it formerly belonged to Turkey, but is now part of Greece Here S John is supposed to have lived in exile about Ap 90, and to have seen the vision

S John is supposed to have lived in exile about AD 90, and to have seen the vision described in the Book of Revelation. There is a monastery dedicated to S John the Divine in the island. Pop 2550

Paton Sir Joseph Noel. British painter. Born at Dunfermiline, Dec. 13, 1821 he studied at the Royal Academy, London. Subsequently he became a member of the Royal. Scottish Academy and was London Subsequently he became a monto of the Royal Scottish Academy, and was Queen's Limner for Scotland from 1865. Queen's Limner for Scotland from 1865. He was knighted in 1867 He excelled in the treatment of allegorical, religious and legendary subjects, among his most notable pictures being "The Pursuit of Pleasuro," "Christ and Mary at the Sepulchre" and "Mors Janua Vitac" He was a compotent sculptor, and published two volumes of poems He died Dec 26, 1901

Patriarch Head of a family or tribe The name denotes specifically various O T figures, either fathers of the human race, e.g., Noah, or progenitors of the human race, eg, Noah, or progenitors of the Hebrow people, e.g., Abraham, Isaac and Jacob, their forefathers and Jacob's twelve some Applied to the head of the Jewish Sanhedrim, it denoted in early Christianity outstanding metropolitan bishops, being limited in the 7th century to the bishops of Alexandria, Antioch, Constantinople, Jerusalem and Rome. The pope is styled patriarch of the West See Eastern Church

Patricia District of Ontario, Canada Its District of Ontario, Canada Its area is 146,400 sq m. Formerly part of the NW Territories, it was added to Ontario in 1912, and named after Princess Patricia, daughter of HRH The Duke of Connaught who was Governor General of Canada at the time

Patrick Saint. Patron saint of Ireland. Born about 387, probably near Dumbarton, Scotland, he was captured by Irish raiders when 16 years old, escaped to the continent and studied at Tours Pope Celestration by the continent and studied at Tours of the continent and studied at Tours. tine I consecrated him bishop, entrusting him with Ireland's conversion Landing in Wickwith Ireland's conversion low, he established missionary settlements in Armach and elsewhere. He died at Saul, Armagh and elsewhere He died at Saul, near Downpatrick, according to some legends

near Downpatrick, according to some legends as late as 493 but more probably in 461 He left a Confession, an epistle to Coroticus and a hymn He is commemorated on March 17 Patron (and Patronage) Term originally applied to a Roman patrician to whom plebeians, under the name of clients, attached themselves for protection Now largely used in connection with Church benefices, patrons of which have the right of nominating, subject to episcopal confirmation, incumbents when the living falls vacant The patronage of many benefices is in the hands of bishops, colleges and other institutions

Patteson John bishop Coloridge Born April 1, 1827, after a brilliant Oxford career, he took Orders ; and joined Bishop Selwyn in missionary work Conscerted Bishop of Melanesia in 1861, he served 10 years in that capacity, and was attacked and murdered by natives, Sept 20, 1871

Patti Adelina Famous singer Born in Madrid, Feb 19, 1843, she made her operatic debut in 1859 in "Lucia di Lammermoor" She first appeared in London in 1861 She was received everywhere through out her career with extraordinary enthusiasm She made her last appearance at the Albert Hall in 1906 She married three times, and died Sept 27, 1919

Pau City of SW France It is a noted winter health resort Henry VI is said to have been born in one of the rooms of the castle (1553) Pop (1931) 38,962

Paul Saint and Apostie Born at Tarsus in Rabbi under Gamaliel at Jerusalem. As a Rabbi under Gamaliel at Jerusalem. As a canno Pharlese he took an active part in the kabbi under Gamaliel at Jerusalem. As a young Pharisee he took an active part in the persecution of Christ's followers, but on his way to Damascus for the purpose of making further arrests he saw Christ in a vision and was converted After three years' preparation he revisited Jerusalem, and then embarked on his first mission tour in Cyprus, Pisidia. Parmphilis and Lycannia. On his return he Pamphilia and Lycaonia On his return he engaged in a controversy with S Peter concerning the admission to the Christian Church of Gentiles, whom he championed, and to whom his subsequent missionary efforts were devoted His second and third missions took him through Galatia and Phrygia to took him through Galatia and Phrygia to Macedonia and Aohaia. Tried at Cacsarea for causing disturbances he was sentenced to imprisonment and, appealing to Caesar, was sent to Rome where, after two years cap tivity, tradition says, he was executed under Noro in A.n 64

It is impossible to overestimate the importance of S Paul in Christian history Moon then any other he was regencial for the

More than any other he was responsible for the spread of Christianity throughout the Roman Empire while his theological and moral principles have exerted a profound influence on later thought and on the civilised world Paul, Epistles of See ROMANS, CORINTHIANS,

GALATIANS, EPHESIANS, PHILIPPIANS, COLOS THESSALONIANS BIANE, TITUS, TIMOTHY, PHILEMON, HEBREWS, EPISTLE TO

Paul I Tsar of Russia Born Oct 1, 1754, he was the second son of Peter III and the Empress Catherine II at whose death in 1796 he succeeded to the throne He rapidly became unpopular by reason of his violent temper and disposition Having first declared in favour of the Allies against France, he quarrelled with England and then joined Bonaparte His nobles conspired to compel him to abdicate, and in a scuffle with them he was strangled and killed, March 11, 1801

Paul-Boncour Joseph French politician He was born at S Aignan, Aug 4, 1873 As an independent socialist he was elected to the Chamber and became labour minister (1911) in the Cabinet After the war, in which he served he took an important part in the work of the League of Nations as a French representative. In 1939 Nations, as a French representative In 1932 he became minister for war in the Cabinet headed by Edouard Herriot (qv)

Pauperism in England a pauper is a person who receives poor law relief for himself, or his dependents, and before he can do so, must prove himself

destitute and incapable of providing physical necessities. The relief is e 'indoor," which means maintenance of 'indoor," which means maintenance at a workhouse, infirmary, asylum or school, or "outdoor," who allowances are made in money kind or medical attendance. In 1934 1,516 933 persons obtained poor law relief in England as against 1,488 173 in 1933

Pavia Town of Lombardy Italy Sun

Pavia Town of Lombardy, Italy Situated on the Ticino, 2 m above its junction with the river Po, it is on the main line from Milan to Genoa Here in 1525 Francis I of France was defeated and captured by Lannoy, Viceroy of Naples The battle was one of the first to show the superiority of firearms over pike and lance Formerly a fortress it was captured and sacked by Napoleon in 1796 Volta made his first electrical experiments here There are numerous iron foundries, military engineering and electrical production works. Pop (1931) 50,325

Paylova Anna. Russian dancer Born

Paylova Anna. Rus-ian dancer Born at St Petersburg, Jan 31, 1885, she entered the Imperial Ballet School at the age of 10 Attached to, and later prima ballerina of, the Marianski Theatro, St Petersburg, she subsequently appeared at the Imperial Opera House and first visited London with Michael Mordkin in 1910 In 1923 24 25 she appeared with her own company at the Covent Garden Opera House always meeting with enthusiastic reception, the died Jan 22, 1931

Pawnbroker Pawnbroking, or the riches pawned or pledged is of great antiquity, pawnshops existing in China at least two or three thousand years ago Greeks and Romans were familiar with pawnbroking, but among the Jews it was expressly in-hibited under the Mosale Law The Jews, however, in mediacval times were almost the only pawnbrokers in England till they were succeeded by the Lombards, who introduced the now familiar trade sign of the three golden balls. The pawnbrokers licence dates from 1785, and there has since been considerable legislation in England on the subject of pawnbroking. The latest enactment was the Pawnbroking The latest enactment was the Pawn-brokers Act of 1922 which included numerous regulations respecting interest unredeemed pledges and so forth the sale of

Paxton Sir Joseph British architect. Born Aug 3, 1801, his principal claim to fame is his design for the Crystal Palace in 1851 He began his career as head gardener to the Duke of Devonshire at Chats

gardener to the Duke of Devonshire at Chats worth, where he exercised his ingenuity in designing glass houses He was knighted in 1851, was elected Member for Coventry in 1854 and died June 8, 1865

Paysandú Olty of Uruguay Situated on the E bank of the Uruguay, 170 m N of Buenos Aires, it is the capital of the Paysandu department, occupying 5115 so m and reigner certile and even ing 5115 sq m, and raising cattle and sheep Their products, livestock, wool, hides, refri cerated, salted and canned meats and tongues, constitute the town's prosperity are mined Pop (1932) 26,000

Pea Annual climbing legum sativum Intr Metal ores dept 72,257 climbing leguminous

Introduced into Tudor England, field peas preceded the garden forms, which have arisen from cross fertilisation and selection The sweet-pea (Lathyrus) is closely allied

Peabody George American merchant 8 Danvers Mass Feb 18 1795, he came to

London in 1837, where he spent his large after other expeditions, succeeded in dis-fortune in phlianthropic schemes The covering the North Pole, 1909 He died Peabody Trust was established in 1862 It was designed to provide houses for the working classes of London He died in London, Nov 4, 1869, and was buried in America

4, 1869, and was buried in America Peace River of Canada It rises in the Rocky Mts, in British Columbia, and flows into Alberta It is about 400 m long and falls into the Great Slave Lake Its tributaries include the Smoky and the Finlay The Valley of the Peace contains a very rich coal field, and plans have been formulated for developing the district.

for developing the district.

Peach Fruit-tree of the rose order,
(Prunus persica) Cultivated in
ancient Persia and China, perhaps derived
from the almond, it was introduced into Tudor
England The roundish fleshy drupes, 2-3 in England The roundish fleshy drupes, 2-3 in across, covered with down, ripen in Britain in favourable situations, being usually grafted on plum or almond stock and fan-trained to walls with S W aspect Large market supplies are grown in France, Delaware and California, which has developed a large canning and drying Industry

Peacock Male bird of a genus of game-fowl (Paw), indigenous to India and SE Asia. In the breeding season, its upper fail-coverts develop spray-like webs interspersed with glittering "eyes," the whole train being displayed vertically in a semicircle The more plainly feathered peahen lacks the train The Common P crustatus of India and Ceylon, was domesticated in antiquity, albino examples furnish white pea-fowl The Burmese P muticus, extending to Malaya and Java, is more brilliant still

Peak District of Derbyshire, extending from Chesterfield to Buxton, and from Ashbourne to Glossop It forms the S. end of the Pennine Hills Kinder Scout is the highest point, it is 2088 it At Castleton is found the famous Blue John (purple fluespar) Chatsworth (q v) is situated in this district

Pear Fruit-tree of the rose order (Pyrus communis), native from E Europe to W Asia and the Himalayas The wild pear W Asia and the Himalayas The who pear of British thickets is doubtfully indigenous There are innumerable varieties, usually grafted on free or pear stock, or, for the dwarf and pyramidal trees of gardens, on quince stock fermented pear juice furnishes the alcoholic beverage called perry Pearwood, hard and even-grained, serves for drawing squares and curves, and when chonised for camera-shutters

Pearl Calcareous secretion formed in many bivalve molluses but chiefly in the so-called pearl oysters (Meleagrina), and the freshwater mussels of the genus Unio A pearl consists of extremely thin concentric layers of calcium carbonate deposited around same foreign object or parsetposited around some foreign object or parasite, posited around some foreign object or parasite, and the iridescent colours are due to interference of light caused by the thinness of the layers Pearls vary in colour from white to pink or black, their value depending upon their size and purity of colour The principal fisheries are in the Persian Gulf, the Gulf of Mannar in Ceylon the South Pacific and the Gulf of Mexico

Peary Robert Edwin American explorer and the movement of the body causes the meen-anism to revolve and this movement is recorded on a dial, adjustments being made for the Nicaragua Ship Canal, was enabled to carry out the Arctic exploration In 1891 92 he led a sledging expedition towards the North Pole, a journey of 1300 m, and,

Pease Quaker family founded by Joseph Pease, a woollen manufacturer at Darlington, somewhere about 1760 His son, Edward (1767-1858), extended his activities to the coal and iron industries, and also to banking Joseph and Henry, Edward's sons, were both Members of Parliament, as were members of the next two generations Sir Joseph Whitwell Pease (1828-1903) became a baronet in 1882 His son Alfred Edward was well-known as a sportsmean, while Joseph Albert was a politician and was created Lord Gainford in 1916 Herbert Pike Pease was also a politician, and in 1923 became Baron Daryngton Daryngton

Peat Partially decomposed vegetable matter found on or near the surface

in many of the cooler parts of the world in swampy places Its carbon content is sufficiently high to enable it to be used for fuel Peccary Genus of hoofed mammals conformed america (Dicotyles) They are tailless, have the upper tusks directed downwards and lack the outer toe on the hind feet Fierce and recognitions the collared peccary, 3 ft and gregarious, the collared peccary, 3 ft long, ranges from Arkansas to Patagonia, the somewhat larger white-lipped variety from British Honduras to Paraguar

British Honduras to Paraguar

Peckham London district in the metrowell, SE Peckham Rve Park was opened in
1894 and has more than 42 acros

Pectin Series of vegetable mucilages
fruits and roots In the beetroot, carrot and
the pulp of ripe fruits such as the apple and
page a soluble colloidal material, pectrose. pear, a soluble colloidal material, pectrose, occurs, and by the action of a ferment is converted into pectum, which forms the basis

of fruit jellies and jams
Pediculosis (or Phthirlasis) Skin affection occasioned by lice on the body These are wingless, suctorial parasitic insects related to bugs and bird-lice Both the head louse and the crab-louse, which infests the public hair and sometimes armpits and erepublic nair and sometimes armpits and eye-brows, are removable by paraffin preparations. The clothes louse or body-louse requires bathing in baking soda, applying sulphur ointment, and baking the clothing in a dis-infecting oven Apart from their irritation, lice are noxious because they may spread typhus and some relaxing fevers

Pediment Architectural term for the low sloping gable, usually triangular in shape, on the front of classic buildings and revived as an ornamental structure in Renaissance architecture usually

structure in Renalssance architecture usually over portices and windows, supported by carved brackets Sometimes the pediment is bowed, or when the central part is omitted it is termed a broken pediment.

Pedometer Instrument resembling in form a watch, used for registering the number of steps taken by a person in walking, thus determining the distance covered. A weight which swings with the movement of the body causes the mechanism to revolve and this movement is recorded on a dial, adjustments being made for the length of the step.

Peebles Burgh and county town of Tweed it has cloth manufactures. It is served.

Peeblesshire County of Scotland, hereditary ruler possess a peerage English otherwise known as peers and representative peers from Scotland watered by the River Tweed and its affluents, and Ireland sit in the House of Lords There are five ranks in the British peerage, and is mainly a pastoral, sheep rearing county
Its county town is Peebles It is served by
the L.N. E. and L.M.S. Rlys. Pop. 15,300

Peel Small fortified tower, usually square and of massive construction, it was common in the border counties of England and Wales in the 15th and 16th centuries They were used as refuges from bands of raiders. Several examples are still standing in Combarded and discent counties. Cumberland and adjacent counties

Peel Watering place and fishing town on the W coast of the Isle of Man It has historical associations and interesting ruins of the 12th century Pop 2455

Peel Viscount English title, created in 1895 and bestowed upon Arthur Wellesley Peel, youngest son of Sir Robert Peel Born Aug 3, 1829, he was educated at Eton and Balliol College Oxford had a distinguished parliamentary career and held various offices, being chosen Speaker in 1885 He was created a viscount when he retired in 1895, and died Oct 24 1912 He was an

1895, and died Oct 24 1912 He was an ardent temperance reformer William Robert Wellesley Peel, the 2nd viscount was born Jan 7, 1867, the eldest son of the 1st viscount, and was educated at Harrow and Balliol College, Oxford He was called to the bar in 1893, and sat in Parliament, first for a division of Manchester (1900 06), and then for Taunton (1909) until he entered the House of Lords at his father's death in 1912 He held various offices in 1992 he was He held various offices in 1922 he was Secretary of State for India, and in 1931 became Lord Privy Seal in the National Government, an office which he held for a short period only He was made an earl in 1929

Peel Sir Robert British statesman Born near Bury, Lancs, Feb 5, 1788, he was educated at Harrow and Ohrist Church oxford, and entered Parliament at the age of 21, holding office as Secretary for Ireland when he was 24 In 1822 he became Home Secre tary, and in this capacity formed the new police force, known to this day as Peelers He was three times Prime Minister, in 1834 1839 and 1841, on this last occasion holding the office for five years Poel now restored the disorderly national finances passed the Bank Charter Act which still regulates the country's currency, and repealed the penal laws against Catholics Finally, in 1848, he repealed the Corn Laws in face of tremendous opposition but was defeated on the Irish Coercion Bill, resigned and went into opposition He died July 2, 1850

Peel John Cumberland yeoman Born Nov 13 1776 he is chiefly known as the hero of the song "D ye Ken John Peel?" which was written by J W Graves about 1829 He was born and lived at Coldbeck, where he died Nov 13 1854

Peele George English dramatist. Born about 1558 and educated at Christ's Hospital and Christ Church, Oxford he wrote historical plays and masques which had considerable influence on Shakespeare and Milton These include Edward I The Arraym ment of Paris and David and Fair Bethsabe He died about 1598

Peerage Name used for the peers as a to their families. Only countries with a

duke, marquess earl, viscount and baron The law lords, although they sit in the House of Lords are not peers The position of the bishops is more ambiguous. It is held that they are peers, because they sit in the House of Lords by right of succession Peers have the right to be tried when necessary by their A peerage is created by letters patent, and this states how the title shall descend It may, therefore, be limited to sons, or may pass to a daughter or a nephew A woman can be a peeress, but cannot sit in the House of Lords

Pegasus In Greek mythology the winged steed of Bellerophon who slew the Chimaera with his aid came into being from the blood of the gorgon, Medusa, when Perseus cut off her head The Pegasus Club is an association of members of the Bar who are interested in hunting and racing It holds an annual point to-point meeting The name is taken from the crest of the Irres Temple, which is a winer deeper the Inner Temple which is a winged horse

Pekinese Dog Breed of lap dog Of Chinese origin, it differs from English toy spaniels in having a flat skull and tail curled over the loins Preferably weighing 5 to 6 lb it is heavy in front, with short broad muzzle, falling away llon like behind Long haired, with thick undercoat, it is light red or yellow, mottled with white

Peking Former capital of China, now known as Peiping, a very ancient and populous city lying about 100 m from the Gulf of Chin li Kublai Khan established it as capital of the Chinese Empire in 1264 and it consists of the Chinese city and the Tartar city, consists of the Chinese city and the Tartar city, the latter being surrounded by walls built in 1421, while those of the Chinese city were built in 1544 Inside the Tartar city is the imperial city, while inside that again is the Forbidden city Here are many ancient and wonderful buildings, including the Temple of Confucius and the Temple of Heaven. The population is about 1,300 000

Pelargonium Genus of herbs of the geranium order Often half shrubby, they are distinguished from seguniums by having stalked umbels of flowers with irregular corollas and upper sepals spurred.

See GFRANIUM

Pelée Mont. Volcano, 4400 ft in height, on the island of Martinique in the French West Indies The lower slopes of the mountain consisted of dense wooded country, but in 1902 two cruptions occurred and totally destroyed the neighbouring town of St Pierre and adjacent villages

Pelham Henry British statesman Born 1696 the younger brother of Thomas Holles Pelham, atterwards Duke of Newcastle, he was educated at Westminster and Oxford entered Parliament in 1717 as member for Scaford, and held various offices, becoming Prime Minister in 1743 an office which he held for 11 years He died March 6, 1754

Character in Greek mythology Having usurped the throne of Pelias Jason's father he despatched Jason to find the Golden Fleece, hoping that he would not return

Pelican Genus of waterfowl (Pelecanus), allied to cormorants, widely distributed in tropical and sub tropical regions.

pelican (P onocrotalus) 5 ft long, inhabits S.E Europe, S W Asia and N E Africa.

Peloponnese Southern portion of ancient Greece, now known as Morea. It was connected with Greece proper by the Isthmus of Corinth The word means the "Island of Pelops" Various races means the "Island of Pelops" Various faces inhabited it. beginning with the Pelasgians, and followed by the Achaeans, Ionians and others Later it was under the supremacy of Sparta until the Thebans conquered the Spartans at the Battle of Leuctra in 371 B C

Peloponnesian War Mar between Sparta, from 431-404 BC In the first period, which was concluded by the Peace of Nicias (421 BC), both sides had their successes In the second, Sicily was the centre of hostilities, in the third Sparta bed the advantage. in the third, Sparta had the advantage Athens was captured by Lysander in 405, the city's walls were destroyed and her power broken, leaving Sparta temporarily supreme

Pelops in Greek mythology, grandson of Zeus and son of Tantalus, King of Phrygia He married Hippodamia, daughter of Oenomaus, King of Elis, and succeeded him as king Legends concerning him deal with his being killed by his father, cut to pieces and boiled as a repast for the gods Hermes eventually put the pieces together again, and restored him to life

cut to pieces and boiled as a repast for the gods. Hermes eventually put the pieces together again, and restored him to life.

Pelorus Jack Name given to a famous grampus in the Pelorus Sound, which for many years accompanied vessels for a given distance between Wellington and Nelson, New Zealand It was protected by a special resolution of the lexislative council. legislative council

Pelvis Name given to the bony frame-basin-like cavity protecting certain abdominal viscera and giving attachment to the lower imbs. It consists of two innominate bones, each composed of three elements ilium, ischium and publs, which are separate bones in early life but soon become fused into one bone pelvic bones are united behind to the sacrum of the backbone and in front to one another by the puble symphysis

Pembrey See BURRY PORT.

Pembroke Municipal borough and county town of Pembroke-shire A walled town with a medieval castle, and the nearest harbour to Ireland it was at one time an important fortified post, and was taken by Cromwell in the Civil War The modern town grew up around the naval dock-vard, which, however, was closed in 1925 Pop (1931) 12,008

Pop (1931) 12,008

Pembroke Manufacturing town of Onthe Allumette Lake. It has varied industries, including mills brickyards, lumbering and tanning Pop (1931) 9 308

Pembroke Earl of British title held in Pembroke Earl of British title held in Clare, de Valence and Herbert, as well as by certain members of the royal house at different petiods. It was created in 1138 and bestowed upon Gibert de Clare, who was followed by Misson Richard (Strongbow). He was succeeded by William Marshall, his son-in-law but in 1245 the title became extinct. William de Sisting of Penang Island and Province wenesses on the main land George Town, an important pent is an Penang Island and Province wenesses on the main land George Town, an important pent is a railway running from Siam to Singapore. Pop (1932) 367,477

Penarth Seaport of Glamorganshire. An place, it stands 4 m. from Cardiff, on the G W Rily. It owes its prosperity to its docks. Pop 117,097

Pendlebury Name given to a district of Lancashire, lying 34 m. N. W. of Manchester, and served by the L. M.S. Rily. Pop 10,130

Their long furrowed beaks have extensible. Valence then secured it by marriage, and It pouches attached to the lower mandible for was held by his family until 1324. In 1551 collecting fish food. They have rough, harsh plumage and short, rounded tails. The common broke, and the present Earl, Reginald Herbert, is his descendant. The family seat is Witton. House, near Salisbury

Pembroke Dock Dockyard on Mil-Pembrokeshire Wales, formerly known as Paterchurch It was inaugurated as a government dockyard in 1811, being transferred from Milford, and forms part of the bolough of Pembroke, two miles away The dock was closed in 1925

Pembrokeshire County of Wales, in the principality It has an area of 614 sq in Pembroke is the county town, and its chief ports are Fishguard and Newport. Haverford-west and Tenby are municipal boroughs The county contains part of the South Wales coal-field Pop (1931) 87,179.

Pembrokeshire is very rich in early remains, both megalithic and Romano-British Its contacts with Iroland and Brittany made it a centre of Celtic Christianity, and many Celtic crosses remain. Its importance in mediaeval times is attested by the many castles. Long a county palatine, it lost this distinction with the passing of the Act of Union in 1536

Pemmican Dried buffalo meat or lean yenlson pounded and mixed into flat cakes with boiling fat. Originally a North American Indian food, it is now manufactured from beef for use in Arctic explorations, being of value owing to its capacity for remaining good for an indefinite period if kept dry

Penal Servitude Form of punish seded that of transportation in English law by the Penal Servitude Act of 1853 Such imprisonment may be for a maximum of three years or for life, but some degree of romission may be earned by the good conduct of the prisoner, who is then greated a ttolet of the prisoner, who is then granted a ticket of leave Prisoners undergoing penal servitude wear the distinctive broad arrow dress and have to do some form of useful work

Penance "Variant form of the word penitence" denoting specifically the outward acts manifesting repentance, either voluntary or performed under ecclesias tical discipline Protestants hold that Divine forgiveness follows true sorrow for sin irre-spective of imposed acts The Roman Catholic Church, ranking penance as one of the seven sacraments, regards it as comprehending contrition, conic-sion to an approved priest, satisfaction by accomplishing penitential works and absolution

Penang British Crown Colony, one of the Straits Settlements, consisting of Penang Island and Province Wellesley

Pendleside Series Geological for typically at Pendle Hill, Lancs, between Stoke on Trent and Settle It consists of shales and black limestones, 1000 1500 ft thick, and lies between the upper Carboniferous Limestones and the Millstone Grift.

thick, and lies between the upper Carboniferous Limestones and the Millstone Grits

Pendulum Term applied to a weight or rigid body so suspended as to swing freely on a horizontal axis, the oscillations being due to the influence of gravity The pendulum has many applications, Galileo applied it to measure the human pulse in certain types of stationary engines it forms part of the counter balance mechanism in clocks it is a device for regulating the working of the parts and Foucault used it to

demonstrate the rotation of the earth Penelope In Greek legend, the wife of Ulysses or Odysseus During the protracted absence of her husband she was besleged by suitors, but she told them that before she could accept any of them she must finish the robe she was making for her father in law She worked at this all day and at night undid all she had done

Penge Urban district of Kent, and a suburb of London, lying 6 m to the south by the S Rly Part of the Crystal Palace park is in the district. Pop 26 430

Penguin Family of flightless sea birds antarctic regions The backward position of the short legs, the webbed feet, stiff tails and erect station on land give them an ungainly appearance the wings are transformed into paddles covered with scaly feathers From Antarctica they extend north to the Cape, Australia New Zealand, Falklands and other islands, forming in places immense breeding "rockeries" The largest are the king and emperor penguins, Aptenodiyes rock hoppers, Endyptes, are crested See Jackass

emperor penguins, Apienodyles rock hoppers, Enduples, are crested See Jackass

Penicuik Police burgh of Midlothian, Edinburgh, by the L N E Rly Pop (1931) 2673

Peninsula Term used in geography surrounded by water For example, Spain and Portugal form the Iberian Peninsula, which is bounded by the Bay of Biscay on the north, the Atlantic on the west, the Mediterranean on the south and south-east, but is joined to France on the north-east

Peninsular War (1 8 0 8 - 1 8 1 4)
France in the Iberian Peninsula by Great
Britain, Spain and Portugal The immediate
cause was the revolt of the Spanish people
against Napoleon s brother, Joseph, whom
he had made King of Spain The Allied forces
were under the command of Sir Arthur Welles
ley, afterwards Duke of Wellington, and out
standing victories were won at Vimiero,
Albuera (1811), and Salamanca (1812) There
were further victories at Vittoria and Orthez
Napoleon's abdication in 1814 concluded the
war

Penistone Market town of Yorkshire (WR), 12 m from Shof field Its industries include brewing steel works and saw mills, and the neighbourhood is rich in coal and stone It is served by the LNE and LMS Riys Pop 3791

Penkridge Town of Staffordshire, An

Penkridge Town of Staffordshire An agricultural centre, it is 10 m N of Wolverhampton and 134 m from London by the LMS Rly Pop (1931) 2570

Penmaenmawr Watering place and urban district of Caernarvonshire It lies 4 m from Conway amid beautiful scenery and is served by the LMS Rly Pop 4000

Penn Sir William British admiral Born in 1621, he fought on the Parlia mentary side in the Civil War, but in 1660 accompanied Montagu to bring Charles II back, and was knighted aboard the Naseby He died on Sept 16, 1670

His son, William, was a prominent Quaker, the founder of Pennsylvania Born Oct 14, 1644, he was expelled from England in 1661 because of his faith travelled abroad, and later suffered imprisonment on the same account. He founded Pennsylvania in 1671, where he spent some years between 1684 and 1701 He died at Ruscombe on May 30, 1718

Pennant Long, narrow flag usually pointed at the end It is carried by lancer regiments on their lances, and is flown in the Navy at the mast head of a vessel in commission. The paying off pennant, or pendant, is a very long streamer with a bladder at the end, and is flown by a ship when she returns to port to pay off. Originally the pennant was the knight bachelors flag which he bore at the end of his lance.

Pennine Chain Mountainous region forming a high plateau cut by deep river vallevs, extending from the Scottlish border in the north to the Vale of Trent in the south and including the Peak tableland of Derbyshire The chief heights are Cross Fell, 2892 ft., Mickle Fell, 2591 ft., Whernside, 2414 ft, Ingloborough, 2373, ft., Penyghent, 2270 ft and Kinder scout in the Peak district, 2088 ft

Pennsylvania State of the U.S.A. It State on the N. New Jersey on the E. Maryland and West Virginia on the S. and Ohio on the W., and touches Lake Eric in the N. W. Its area of 45 126 sq m is traversed by the Appalachian Mountains. The chief rivers are the Delaware, Susquehanna and Allegheny Harrisburg is the capital other large cities are Philadolphia and Pittsburg.

Pennsylvania is ruled by a governor elected for four years, a sonate of 50 members, and a house of 203 representatives The state is enormously rich in minerals, particularly coal and iron, limestone and glass sand Its nost important manufactures are iron and steel, silk, machinery, electrical goods, books etc., and knitted goods Pop (1930) 9,631,350

Pennsylvania was first settled by Swedes and

Pennsylvania was first settled by Swedes and Dutch, but owes its true foundation and first constitution to William Penn (q v) The state played an important part in the War of Independence, and it was at Philadelphia that the Declaration of Independence was adopted. The state entered the federation in 1787, but the present constitution dates from 1873

Penny one twelfth of a shilling intro duced in 1860 to supersede the copper coins in use since 1672 Previous to this latter date silver pennies were coined but they gradually decreased in weight and the only silver coins of this value now made are issued as Maundy money The early silver pennies were marked with a cross like indentation to allow of separation in halfpennies and farthings The standard weight of a bronze penny is 145 83333 grains troy

Pennyroyal Perennial labiate herb, (Mentha pulegium), native of Europe and W. Asia Abundant in Eng. live of Europe and W Asia Abundant in England and parts of Ireland, sometimes grown in Scottish gardens, its much-branched prostrate leaf; stem, up to 12 ins long, with small ovate-oblong toothed leaves, bears dense whorls of small, hairy, tubular, lilac flowers It was formerly much used medicinally

Pennywort (Cotyledon umbilicus) Species of the order, Crassulacca, known also as navelwort A flowering wild plant that flourishes on dry walls and in rocky crevices It has succulent leaves depressed in the centre and greenish yellow flowers borne on erect spikes

Branch of criminology, deal-Penology Branch of Criminology, dealing with the study of punishment for offences against the community goes back as far as history, and was largely based on the idea of retribution, it not of vengeance Modern development, of quite recent growth, endeavours to select punishment which permits reclamation while protecting society

Penrhyn Slate quarrying district of Carnaryonshire, situated near the entrance of the Menal Strait. This facili tates the shipping of the slate from Port

Penryhn
The title of Baron Penrhyn was created in 1763 and is now borne by the family of Douglas Pennant, the original creation, which was he d by Richard Penrhyn, having become extinct with his death in 1808 The family seat is Penrhyn Castle

Penrith Ancient market town of Cumberland, near Carlisle, on the LNE RIV It has an agricultural trade as well as brewing and tanning industries Pov 9065

Penryn Market town of Cornwall, situated on the Penryn River and served by the G W Rly A prosperous scaport of the Middle Accordance of the Middle of the Middle Ages, its chief industries to day are tanning, brewing and granite polishing and exporting Paper and chemicals are also manufactured Pop 3151

Penshurst Village of Kent, chicfly distinguished for Penshurst Place and its park of 350 acres Here, Sir Philip Sidney was born and the mansion is still owned by his descendant, Lord de L'Isle and Dudley Pop 1570

Pension Retiring allowance or a grant made to an aged or needy person A pension may be non-contributory, as those granted to members of the fighting services and to civil servants after a certain term of service, or contributory, as when it term of service, or contributors, as when it is given as a superannuation provision by a trade union. Many large employers of labour have a pension fund to which they contribute a portion, the remainder being provided by the workers' contributions

the workers' contributions

The State schemes include the old age pension (qr) introduced in 1908, and the pensions granted under National Health In surance Acts (1925 9)

The latter scheme provides a pension of 10s per week each for the insured worker and his wife at the age of 55. The workers make weekly payments in contribution by means of stamps affixed to a card. The Health Insurance scheme also provides a pension of 10s for the widow of the worker, receiving 5s for the first and 3s for other children. Orphaned children of an insured worker receive 7s 6d. each. The same

acts provide for a blind person receiving a pension of 10s per week at the age of 50

What are termed civil list pensions are granted by the crown to necessitous persons who have attained distinction in art, literature or science, or to their dependents

Pensions Ministry of British Government, formed in 1916 for the administration of pensions to members of the war services and their depen-dents The headquarters are at 18 Great Smith Street, Westminster

Pensnett Coal-mining town of Stafford-Shire Other industries are

the manufacture of iron and glass

Pentateuch Greek name meaning "five volume book," used since the 2nd century AD for the first five Old Testament books, Genesis, Exodus, Leviticus Numbers, Deuteronomy They constituted the Hebrew Torah or Book of the Law, and were inscribed on a single roll The Samaritan Pentateuch, in the Samaritan script, derived from the roll taken to Samaria in Ezra's day, exists in various ancient copies, which furnish valuable textual confirmation of this portion of the LXX Greek version of the Hebrew Bible See HEXATEUCH

Pentecost Greek word meaning "fif-New Testament to denote the Jewish harvest festival or feast of weeks, held on the 50th day after Passover, and preceding the Jewish Now Year by 113 days. It acquired a supreme significance to the Christian Church because on that day, called in English, Whitsunday, the Holy Spirit descended on the apostles (Acts ii) The Roman Catholic Church preserves the name, all the following Sundays until Advent being called "after Pentecost"

Pentland Firth Strait off Scotland and the Orkneys connecting the North Sea with the Atlantic Ocean It is navigable but dangerous, owing to tidal currents and whirlpools At the Eastern entrance are the Pentland Skerries with two lighthouses The channel is 14 m long

Pentland Hills Range of hills in They are in the counties of Edinburgh, Peebles and Lanark and extend for some 16 m The highest point is Carnethy (1980 ft.)

Pentonville District of London To the north of the city, it is in the borough of Islington Therein is Pentonville Prison The district owes its name to the fact that in the 18th century the land belonged to Henry Penton, M P.

Pentstemon Large genus of perennial half-hardy herbs of the figwort order, natives of N temperate and figwort order, natives of N tem subtropical America, especially California Showy garden varieties have been developed

Peppermint European perennial lab iate herb (Mentha puperita) Growing wild in Britain, with creeping rootstock, opposite coarsely toothed leaves and loosely spiked flowers, it is cultivated in black and white varieties in England, continental Europe and the USA for its pungent essential oil, which contains menthol This comes still more freely from allied Japanese and Chinese forms

Pepper Tree Tropical American tree of the cashew order (Schinus molle) It is grown in warm countries for shade and ornament, the aromatic berries furnishing a vinous beverage and pepper substitute in S Europe, and an astringent for the gums in Peru, called Peruvian mastic Riviera visitors sometimes misname 'pepper tree" the Indian bead tree (Melia azedarach)

Pepsin Proteolytic ferment or enzyme repsin occurring in the gastric juice secreted by the gastric glands in the wall of the stomach In the presence of hydrochloric acid nepsin converts food proteins into soluble peptones which are assimilated readily by the stomach For medical purposes pepsin is used in a dried form or in various solutions stomach

Pepys Samuel English civil servant and tailor, and was born on Feb 23, 1633, in London, where most of his life was spent Educated at St Paul's School and Magdalene College and Trinity Hall Cambridge, he secured a post in the Navy Office while he held several important, public appointments in the course a post in the Navy Office while he held several important public appointments in the course of his life and sat in Parliament for Castle Rising He died on May 26, 1703 His diary, written in cipher, runs from Jan, 1659, to May, 1669, and is a masterly picture of the times in which he lived, as well as being a unique revelation of character It was first deciphered in 1819 22 by John Smith, and published in 1825 Since then innumerable published in 1825 Since editions have been issued

Perak One of the Federated Malay States with an area of 7800 sq m.

It has tin mines and rubber plantations while rice and fruit are also grown here It is ruled by its own sultan, but is under British protection Pop (1931) 765,889

Perch Genus of spiny finned freshwater fishes (Perca) The common perch (P fluviatilis), seldom exceeding 3 lbs, in habits rivers and lakes in Britain and elsewhere It is bronze green with golden reflections, having five or seven dark cross bands and red fins and red fins

Percy English family which has held the first William de Percy, one of the Conqueror's barons The 12th Baron Percy became Earl of Northumberland in 1377, and the Dukes of Northumberland after many lapses and on Northumberland after many appearant recreations of the title, are still Percies, though Sir Hugh Smithson, created duke in 1766, assumed the name by deed poll The famous Hotspur, who was killed at Shrewsbury in 1403, was Sir Henry Percy, son of the first Earl of Northumberland.

Pepper Perennial climbing shrub (Piper nagrum) typical of the pepper order indigenous to the Malabar coast of India. Widely cultivated in Malaya, especially Penang, as well as the Philippines, W Indies and other tropical lands, it produces a black or white spice derived from the dried fruits, or white spice derived from the dried fruits, and Héloise and other more respectively ground with and without the husks See Cayenner Pepper. Jesuis in Paris, to whom the land originally belonged It covers about 212 acres Many famous people are buried here, including Abélard and Héloise and other more recent celebrities, literary, artistic and military A Mohammedan cometery with its mosque lies alongside It became a municipal cemetery in 1804

Perennial Plant that lives more than two years All trees and shrubs being perennial the term denotes more particularly herbs which are not annual or biennial They may have perennial tap roots hardy bulbs or fibrous roots arising anown annually or periodically Tropical perennials often become annuals when transplanted to colder ellipates.

colder climates

Perfume Substance which has a pleasant sweet-smelling odour, as in the case of certain gums, essential oils of plants some animal products and synthetic compounds For incense odoriferous gums such as frankincense or ollbanum, and gum benyoin, are used along with sandalwood Musk, civet and ambergris are animal perfumes, and the essential oils are represented by otto of roses, the oils of lavender, rosemary, patchouli, etc Many synthetic perfumes are used as substitutes for the natural ones

Pergola Term derived from the Italian word for an arbour and applied to a long series of light arches erected over a garden path, and constructed of trellis, iron with brick or stone foundations, or of un dressed oak and fir wood. A pergola is used Peri Beings of a nature partaking of domon and fairy existing in Persian Although not malevolent they are not deemed fit for the Persian Paradise

Pericarditis Inflammation of the pericarditis cardium (qv) It may be dry or accompanied by liquid effusions with the formation of adhesions Rarely independent it is most commonly associated with acute rhoumatism, but also attends Brights disease, scarlatina and other fovors. There are pains over the heart, rapid and feeble pulse action and difficult breathing

Pericardium Containing the heart and the origins of the great vessels A dense un yielding fibrous layer is lined with a serous layer whose inner surface secretes a thin lubricating fuld which facilitates the heart s natural movements. The apex lies behind natural movements The apex lies behind the breastbone, the base being in relation to the diaphragm

the diaphragm

Pericles Xanthippus and Agariste Born about 499 n.c., he began to take part in public affairs in 469 B.c. and distinguished himself as a general as well as a statesman notably in his recovery of the rebellious island of Euboca in 446 B.c. He also subdued Samos in 440 B.c. Under his administration Athens was developed and embellished and he was the patron of the soulptor Phedias. His policy during the Peloponnesian Wars was one of concentration in Athons, leaving the rest of Attica to its fate. In 430 B.c. he lost both his sons during the terrible outbreak of plague. He died in 429 B.c.

of plague He died in 429 B c

Peridot Name given to the transparent
olive green and bottle-green

varieties of the mineral olivine, a silicate of iron and magnesium, used as gemstones

Perigee Term in astronomy for the point is nearest to the earth, the opposite position being termed apogee (q v)

Perihelion Astronomical term for the earth, a planet, or comet, at which that hody is at its nearest distance to the sun

Perim British island in the Straits of Bab-the Red Sea It is a conling and cable station, but is otherwise of small importance

classifica-Periodic Law Chemical classifica-The task first engaged the attention of chemists lato in the 18th century In the 19th, an arrangement in order of atomic weights was suggested, which Mendelcon elaborated, observing that certain properties became periodic, notably the valency It is now incorporated in the modern concept of atomic structure

Periscope Optical instrument used in trench warfare and in sub marines for enabling an observer to see surrounding objects from a lower level. In its simple forms it consists of two mirrors set at an angle on a frame, or of reflecting prisms and mirrors fixed in a vertical tube, the upper mirrors or prisms reflecting an image to the lower set, and thence to the eye The submarine periscope has in addition lenses and evenieces to magnify

Peritoneum Membrane lining the walls of the abdominal and pelvic cavities and investing their contained viscera. The two layers, parietal and visceral, comprise a thin elastic serous sac, entirely closed except in the female, whose Fallopian tubes communicate with it Numerous folds hold the parts in position, the frontal apron called the great omentum is liable to increased deposition of fat in the corpulent. The mesenteries connect the intestines with the backbone, and ligaments support some organs

Peritonitis Inflammation of the peritonest inflammation of the peritonesty inflammation of the bowels, by confusion with enteritis (qv) In acute forms this disease is usually indicated by sovere abdominal pains, and may be caused by micro-organisms entering through wounds from outside or internal perforations due to strangulated hernia, obstruction of the bowels, appendicitis, burst abscesses and the like The chronic form is either tubercular in origin and secondary to consumption, or local and and secondary to consumption, or local and non-tubercular Should perforated bowel be suspected, operation is essential.

Periwinkle Cosmopolitan genus of marine snails (Luttorina) Shore dwellers, in some tropical regions they ascend mangrove trees and are found far inland. Of several British species the commonest, L. littora, with stout stony shell and strong horny operculum, is a favourite food, especially in inland towns, being also used as cod-bait off Newfoundland.

white varieties and others with gold or silver variegated foliage

Perjury Making a false statement on oath, a misdemeanour punishable by fine, imprisonment, or penal servitude. The oath must be a lawful one, and the statement must be material to the issue. To suborn

ment must be material to the Issue To suborn perjury, ie, promise another to swear falsely, is a misdemeanour with like penalties

Perkin Sir William Henry English and founder of the aniline dye industry. He was born in London, March 12, 1838, and educated at the City of London School, choosing chemistry as his career The famous Perkur's purple dye was discovered while he was trying to prepare quinine synthetically, and other commercially important discoveries followed. He was knighted in 1873 and died July 14, 1907

Permanganates the salts derived from permanganic acid, the most important being permanganate of potash which, in aqueous solution, is a deep purple liquid readily decomposed with evolution of oxygen when in contact with organic matter Hence its use as a disinfectant and chemical oxidising agent Condy's fluid is a solution of crude sodium permanganate

Permian Series of rocks formerly known as New Red Sandstone. but named by Murchison after Perm in Russia where the beds are well developed The Permian System consists of beds of red sandstone, marls, breeclas and magnesian limestone, overlying the Carboniferous rocks In north east England the magnesian limeters and the sandstone of the s stone, which supplied good building stone and lime, is associated with marl slates, gypsum and rock-salt in the Midlands breccias occur, and in S Devon red sandstone and coarse breccins

Permutation Term in mathematics for the linear arrangement refinutation the linear arrangement of numbers or letters in every possible order, thus a and b may be arranged as ab and ba, giving two permutations, or a, b, c as abc, acb, bac, bca, cab, cba, giving six permutations. Algebraic formulae are used for calculating permutations of any given quantity

Pernambuco Province of Brazil On the eastern coast, it covers 49,560 sq m, pop 2,369814, and produces sugar, cotton, etc The capital, which has the same name, is also known as Recife It is an important port with exports of cotton, sugar, etc The harbour is a good one, the

sugar, etc The harbour is a good one, the town being built on a reof, an island and the mainland Pop 340 543

Perpendicular Name given to a period of Gothic architecture in England from about 1350 to 1547 The Perpendicular style was characterised by the persistent expression of verticality throughout a building oven in the window tracery and the extensive use of panelling having numerous vertical lines, over walls, buttresses, parapots, etc. Other distinctive features were the fan tracery vaulting, fiatter arches, flying buttresses and open timber

Periwinkle Genus of perennial evertualing undershrubs of the doghano order (Vinca), articles of temperate Europe, Asia and N Africa Long naturalised in Britain, the greater, I major, and lesser V minor, with bluish-purple, salver-shaped corollas, are cultivated in gardens there being double-flowered ture of energy which cannot be "created."

sowing and growth of corn

Perseus In Grock myth, the hero son of Danaë by Zeus He was sent by Polydectes, King of Seriphos to win the head of Medusa, the Gorgon He succeeded, alded by Athena and on his return journey saved Androneda from the sea monster and married her Later he became King of Argos and is the legendary founder of Mycenae In astronomy Perseus is a constellation traversed by the Milky Way, extending from Cassiopela to Taurus

Pershing John Joseph American sol served as a lieutenant against the Indians, and in 1898 tought in the Spanish American War In 1902 he commanded an expedition ugainst the Moros of Mindanao and held various administrative appointments. When the US.A declared war on Germany in 1917 he became commander in-chief and was on the ne became commander in-chief and was on the Western front with the American Expeditionary Force until the Armistice He was chief of staff from 1921 24 In 1931 he published My Experiences in the World War Pershore Town of Worcestershire It from London and 8 from Worcester on the GW Rly The town is the centre of a district wherein fruit and veretables are grown and from the control fruit and veretables are grown and from the control fruit and veretables are grown and from the control fruit and veretables are grown and from the control fruit and veretables are grown and from the control fruit and veretables are grown and from

wherein iruit and vegetables are grown and jam

making is an industry Pop 3400

Persia (Iran) Country of Asia, lying between Turkey and the Persian Gulf on the West and South Turkestan and Afghanistan on the East, Transcaucasia and the Caspian Sea on the North It has an area of 628,000 sq m, consisting of tableland with a mean altitude of 3000 5000 ft There is only one navigable river, the Karun The climate is mostly dry and very hot Dates are cultivated and cereals grown while oplum and tobacco form profitable crops Oil, of which Persia has great resources, is the principal export, followed by carpets, for which the country is famous, oplum, fruit and raw cotton are also exported Teheran is the modern capital Isfahan the ancient one. Abadan is Afghanistan on the East, Transcaucasia and capital Islahan the ancient one Abadan is the chief oil producing centre, and Bushire the chief port. The population is 10,000,000, of which a third are nomadic

Persia is a constitutional monarchy under a monarch known as the Shah It has a long and interesting history, beginning with the Sumerlans, continuing through the Medes to Alexander the Great and the Arab and Turkish conquests, and the present day Great archeeo logical finds have been made on the sites of Persepolis and Susa The religion to day is divided between Mohammedans, Sunnites Jows and Armenian and Nestorian Christians There is a rich and ancient literature, and its art is among the most remarkable of the pre

Christian world

Persian Gulf Arm of the Indian Persia and Arabia It is 550 m long and 75 000 sq m in area It contains the Bahrein Islands, and its principal harbours are Bushire and Bander Abbas The Shatt-el Arab flows into it.

Persephone (or Proserpine) In Greek legond, daughter of Zous and the earth-goddess Demeter Carried off while flower gathering by Pluto, ruler of the underworld, she became its queen In her absence Demeter forbade the earth to yield increase and Zeus had to send Hermes to fetch per back. Her rape and roturn symbolise the carries are cultivated in E. Asia, U.S.A., and corries and growth of some elsewhere, is of apple size

Personation English legal term mean ing a pretence of being another person—what in ordinary speech would be called "impersonation" The False Personation Act of 1874 makes personation a felony if it be designed to extract money or property Among the most famous of personation cases is the Tichborne case of 1871

Perspective Term used in art for the method of delineation of objects upon a plane surface as they appear to the eye Perspective is divided into linear and aerial, the former being concerned with the form and arrangement of objects as they appear to be modified by distance, and the latter with the impression of atmosphere and space in regard to colour and distinctness Aerial perspective was first clearly interpreted by Claude Lorraine in the 17th century

Perspiration Term applied to a process by which water is excreted from the skin by means of the is excreted from the skin by means or the sweat glands, simple tubular structures occurring in large numbers all over the body. The lower portion of a sweat gland is colled into a knot and lies in the deeper laver of the true skin while the upper part forms a duct leading to the surface. Perspiration aids in regulating to the surface. the temperature of the body and is increased by dry heat and exercise—also by certain emotions

PERSPIRING FEET -This condition is due to a disturbance of the nerves supplying the sweat glands, and medical advice should be sought as there is usually some fault in diet or

constitution

Treatment -Plunge the feet alternately into quite hot and very cold water night and morn ing Repeat this six or seven times, the last immersion being in cold water, after which the feet should be dried thoroughly with a rough towel and dusted with a powder consisting of equal parts of powdered starch, boric acid, and salicylic acid Use this powder to dust the insides of the socks, which should be of silk or wool and never of cotton, and make sure that the shoes do not compare the feat that the shoes do not cramp the feet.

Perth County town of Perthshire, situated on the Tay, and known as the "Fair City," owing to its beautiful position It is served by the L.M. S. Riy, and has large industries of which dyeing is the chief. Others are clear and liver will be provided. are glass and linen making, while brewing, ironfounding and the manufacture of floor cloth are important Pop 34,807

Perth has interesting historical associations.

the sapital of Scotland until the 15th century. It has been the scene of many slegges and battles. Here is a magnificent bridge

and battles Here is a magnificent success the Tay

The Earl of Perth is a title borne by the family of Drummond since 1605 and has a strong Jacobite tradition A dukedom was bestowed on the earl by James II, but this, which had no real validity, was abandoned in 1853, by George Drummond who remained Earl of Perth and Melfort

Perth Capital of Western Australia, at the mouth of the Swan River and

founded in 1829 In 1856 it was made a Ceylon, Jamaica and elsewhere, yellow or municipality, but its prosperity and growth date from the discovery of gold in the neighbourhood in 1891 Fremantic (q v) is the port Peseta Monetary unit of Spain A silver bourhood in 1891 I Pop (1931) 209,729

Perthshire Midland county of Scot-Stirling, with an area of 2528 sq m Of the Grampians many heights rise to 3000 ft and orampians many neights rise to 3000 it and more It is watered by the Tay, and has many lochs, including Tay, Katrine and Achray Other famous spots are the Carse of Gowle and the pass of Killiecrankie, where Viscount Dundee at the head of the Jacobite forces defeated the week toward of the Jacobite forces descated the royal force under General MacKay in 1689 The county town is Perth (q t) Blairgowrie, Dunblano Auchterarder, Pitlochry and Aberfeldy are other towns

The county is mainly agricultural and is served by the LMS and LNE Rlys Pop (1931) 120,772

Peru Republic of South America between Ecuador and Co Peru Republic of South America 1910g on the North, the South Pacific on the West, Brazil on the East, and Bolivia and Chile on the south It has an area of 482,133 sq m, and a population est at 6,147,000 (1927), half of which consists of aboriginals Lima is The country is mountainous, and is rich in minerals, of which the most important is copper, but petroleum and silver are also found. There is coal, but it has not yet been utilised. Vegetation is luxuriant and profitable, and includes sugar, coffee and cotton.

Pera is a centre of ancient civilisations The inca civilisation which Pizarro found when he conquered Peru in the mid-sixteenth century was virtually destroyed by the advanc-

ing Spaniards

The Government is a republic under a president who holds office for four years, with a cabinet, senate and representative house

Perugia City of Italy The capital of the province of Porugia, it is of ancient Etruscan origin and played a consider able part in history In mediaeval times it was long independent supporting the Guelphs. but fell before the Farnese family in 1534 Occupied by the French in 1797, in 1849 it was reized by Austri Piedmont in 1860 Austria, finally being united to

Among its many notable buildings are a Among its many notable buildings are a Gothic cathedral, the Palazzo Comunate (begun 1297), containing an important art collection, and other famous buildings and churches, decorated by Perugino, Raphael and others Its famous university dates from 1307

The modern city manufactures liqueurs and still and is a contro of the rine and still trade

silk, and is a centre of the wine and oil trade Pop (1931) 79,270

Perugino Italian painter whose real name was Pietro Vannucci He was born at Citta della Pieve about 1446, and worked in Florence, where he had received his training in the school of Verrocchio, and in Perugia In 1480 Pope Sixtus IV com missioned him to work on the decoration of the Sistine Chapel Later, when he was once more in Florence, Raphael was among his pupils He painted mostly religious subjects He died 1524

Peruvian Bark Name formerly applied to the bark of various species of cinchona, natives of the valley forests of Peru, Bolivia and Ecuador from which quinine and allied alkaloids are extracted Widely grown in Java, Sikkim,

Peseta Monetary unit of Spain A silver coin whose standard value is 91d. There is a gold piece of 25 pesetas

Peshawar District and town of the North-West Frontier Province, India, belonging to Great Britain The district is watered by the Kabul River It has an area of 2611 sq m and a population of 865,000 The town is important because of its strategic position at the entrance of the Khyber Pass It is a great trade centre and has a pop of 121,866 (1931) It passed into British hands in 1848 In 1930 there was fighting between the Airidi and British

Peso Monetary unit Derived from the old Spanish dollar, it is now a monetary unit comprising 100 centavos represented by actual silver colnages, and theoretically gold ones, in Mexico, Argentina, Chile, Colombia, Guatemala, Panama, Cuba, Paraguay and Uruguay In some Central and S American countries national synonyms, eg, quetzal in Guatemala, occur

Johann Heinrich Pestalozzi Johann Heinrich Swiss reformer and educationist He was born at Zürich, Jan 12, 1746, and interested himself in oducation By 1780 he interested himself in education By 1780 he had established a school for waifs and strays at Nouhof, and from 1798-99 he organised a school for orphans at Stanz His educational system was based on the importance of observation with its consequent perception His writings include The Evening Hours of a Hermit, and How Gertrude Teaches her Children He died Feb 17, 1827

Pétain Henri Philipps French soldier Born April 24, 1856, he passed out of St Cyr in 1878, and in 1902 was in-Structor of the musketry school at Châlons When the Great War broke out he commanded the 4th brigade He did notable service during the wor, including the command of the defences of Verdun in 1916 In 1918 he was made commander in chief of the French armics under Foch as generalissimo, and in Nov, one week after the Armistice, he became a Marshal of France In 1925 he supervised reinforcements sent against rebels in Morocco

Botanical name for the floral leaves Petal forming the corolla or inner whorl of a flower In most plants the petals are coloured and form a single whorl as in the foxglove, but sometimes there is a double whorl as in the poppy Petals are free or united, and as their chief function is to attract insects for purposes of pollination there are many other variations in colour, form and insertion upon the floral axis

Petard Device formerly used in warfare Petard for destroying a gate or palisade of a fortress. A petard consisted of an iron of a fortress case shaped like a half cone and containing a heavy charge of gunpowder, which was fired by means of a fuse. The petard was fastened to a plank having hooks for attaching it to the gate or pullsade

Peter Named Simon, son of Jonas, and originally a Gallican fisherman, he was one of Christ's carliest disciples, forming with James and John His innermost circle His confession concerning the Messiahship of Jesus, the hestowal of his second name Cephas or Peter, and the risen Lord's commission to "feed My sheep," prepared him for a dominant

place in the infant church He was traditionally NNE of Portsmouth and 54 from London martyred under Nero in Rome, being com Pop 4000 memorated on June 29

Two New Testament Peter Epistles of books T Peter books The first exhorts the scattered Christian community in Asia Minor to live worthly in a hostile world Its traditional ascription to the apostle is generally upheld The second differing in style and language, presents problems which occasioned controversy even in the 3rd century It may have been the work of a writer utilising the apostle's name, and was the last of the catholic epistles to receive canonical rank

Peter King of Serbia Born at Belgrade July 11, 1844 he was a member of the great Karageorgevitch family He was elected king after the assassination of Alexander in 1903 He fought with the Serblan army during the Great War, but when his country was reconquered and became Yugoslavia, he retired to Belgrade He died Aug 16, 1921

Peter I Toar of Ruscia, known as The Great Born May 30, 1672, he became tsar in 1682 together with his brother Feodor He was a keen soldier and devoted himself to the reorganisation of his army and navy having for a time studied shipbuilding at Deptford In 1696 he went to war with Turkey, and three years later with Sweden when he was beaten at Narva by Charles XII He married Catherine, the wife of a

Swedish soldier, who eventually succeeded him as Catherine I In 1703 he founded St Petersburg He died Jan 28, 1725
Peter II, grandson of Peter the Great by his only son Alexis, was born Oct 11, 1715, and came to the throne in 1727, but, after a reign of little importance died In 29, 1730 of little importance, died Jan 29, 1730

Peter III, was another grandson of Peter the Great by his daughter Anne Born Feb 23, 1728, he succeeded to the throne in 1762, but was deposed by his wife, Catherine IL, and was strangled, July 18, 1762

Peterborough City of Northamp Situated on the River Nene, it is an important rallway junction served by the LMS and LNE Rlys It is the chief town of the Soke of Peter borough a separate administrative county with a population of 51,845 The city has several industries of which the chief is the manufacture of agricultural implements and railway stock. The present cathedral stands on the site of a Saxon one and is largely Norman Pop 43,558

Peterborough Manufacturing town of Ontario Canada, 72 m from Toronto, on the River Otonabee Its principal industries are lumbering and flour mills Pop (1931) 22,327

Peterhead Fishing port of East Aber deenshire, situated on Peter head Bay Besides the herring fishery, here is a granite polishing industry and some lesser manufactures The harbour has graving docks Pop 13 700

Peterloo Massacre of Popular name— suggested by Waterloo—given to the events which occurred at St. Peter s Fields, Manchester, in August, 1819, when a huge reform meeting, while it was being addressed by "Orator" Hunt was dispersed by a body of Yeomanry and Hussars, with casualties amounting to 11 killed and over 500 wounded

Petersfield Market town of Hamp shire, on the S Rly, 20 m

Peter the Hermit Medieval preawith the first crusade He was a priest at Amiens when Pope Urban II declared a crusade at Clernont, thereafter becoming famous for his inspiring advocacy of its claims His legendary share in originating the crusade is unhistorical He died c 1115 and was burled at his abbey, now ruined, near Huy, Belgium

Petiole Botanical name for the stalk of a foliage leaf, a petiole is typically cylindrical but usually has a slightly flattened upper surface with the basal portion often grooved to carry off water. It is present in most dicotyledons but not usually in mono cotyledons Its function is to expose the leaf to suitable illumination

Petition In law it is a formal application made in writing to the sovereign,

to Parliament, or to a court of law It is lossely applied to any formal written request, such as that made to the home secretary by the friends or relatives of a person condemned to death, asking for a reprieve The Petition of Right was drawn up by Parliament in 1628 and presented to Charles I tembodied constitutional demands which were agreed to by the king under pressure and became a statute called 'The Bill of Rights' A subject who wishes to proceed Rights" A subject who wishes to proceed against the crown to day must do so by means of a 'petition of right'

Petra Ancient stronghold of Edom, situated on the Wadi Musa brook in a valley between the Dead Sea and the Gulf of Akaba Excavations have revealed some wonderful buildings, notably the Temple of El Deir, a Greek structure hewn out of the red rock Some of the older work shows Egyptian influence, but the finest is Graeco-Roman Petra was used in the Great War as a base for Colonel Lawrence's attack against the 4th Turkish army

Petrarch Italian poet, more properly, Francesco Petrarca He was

born in Arezzo, July 20, 1304 the son of an exiled Florentine notary, and was educated at Avignon and afterwards at Montpellier and Bologna. Here he became an enthusiastic classical scholar especially of Cicero and Virgil After he returned to Avignon, in 1327, he met Laura who was to become his inspiration Her identity is unknown, but she may have been Laure de Noves

Petrarch wrote both in prose and verse, but he will be remembered principally by his lyrics and by the sonnets to the form of which he gave his name He died July 18 1374

World wide sub family of oceanic Petrel birds of powerful flight name denotes the habit some have of apparently walking on the water like S Peter The fulmar walling on the water like S Peter The fulmar (Fulmarus placialis), 19 ins long, breeds in Shetland and the outer Hebrides, the sooty storm petrel or Mother Carey's chicken (Procellana pelagica), 6 ins long, breeds in the Scillies and Lundy Visitors to the Cape and Australia encounter respectively the Cape pigeon or pintado petrel and the great petrel, 32 ins, seldom N of the equator

Petrie Sir William Matthew Flinders Petrie English Egyptologist He was born at Charlton, Kent, June 3, 1853 Since 1880 Egyptian archaeology has been his special province In the Fayum (1888 9) he uncarthed important papyri, and investigated the ancient Lachish in 1890 His subsequent researches have for the most part been carried on in the great tombs of Egypt From 1892 to 1933 he filled the Chair of Egyptology in University College, London He has written extensively on the results of his discoveries

Petroleum Mineral oil consisting of hydro-carbons and varying in colour from dark green, brown to black Petroleum is derived from the decomposition of organic matter in rocks, usually porous sandstones or limestones From the crude oil by fractional distillation are obtained petrol or motor spirit, paraffin oil and wax, fuel oils and asphalt. See OIL.

Petrology Specialised branch of geoposition, structure and classification of rocks, their origin and sequence of formation In this study the geological relations of the rocks, their constituent minerals and the method of aggregation of these have to be considered Microscopic examination entails the cutting of thin rock sections and a special the cutting of thin rock sections and a special technique dealing with the optical characters of minerals as determinative and discriminative characters particularly in igneous rocks

Petty Officer Rank in the British that of non-commissioned officer in the Army They are usually men of education and in-telligence chosen from among the leading seamen and examined in elementary seamanship

Petty Sessions in England the sit-law It consists of two or more justices of the peace or of a stipendiary magistrate Such a court can deal summarily only with certain minor offences, and its powers of punishment are restricted

Petunia Gonus of perennial ornamental herbs of the deadly nightshade family, chiefly S American Averaging 12-18 in high, sometimes with viscid leaves, the funnel-shaped or salver-shaped solitary flowers are white, red, blue and violet.

Petworth Villago of Sussex It is 55 m from London and 24 m from Chichester, on the S Rly Petworth House, the seat of Lord Leconfield, occupies the site of a castle

Pevensey Watering place of Sussex It is on Pevensey Bay, 6 m from Eastbourne, on the S Riv Pevensey occupies the site of Anderida, the Roman fortress, whose outer walls remain, and here William the Conqueror landed in 1066 Pevensey was then a seaport and as given it forested. was then a scaport and as such it flourished until the receding sea made the harbour uscless The keep and four round towers of the castle aro well-known Pop 750

Pewsey Town of Wiltshire, on the Avon, 7 m from Marlborough and 76 m from London by the G.W Rly It is the centre of the rich agricultural district known as the Vale of Pewsey Pop 1700

Pewter Alloy of lead and tin used for making flagons, jugs, plates, etc.
The common metal consists of 80 per cent.
Iln and 20 per cent lead, but the finest pewter is mostly tin with only a little lead and copper other metals, antimony or zinc, may be added for special purposes The Pewterers' Company is one of the oldest City of London Livery Companies, dating from 1474, and has its hall in Lime Street, E C

Phaedra In Greek legend, daughter of Minos, King of Crete and Pasiphae Wedding Theseus, King of Athens, she fell in love with her stepson, Hippolytus When her advances were rejected she hanged herself, leaving a letter containing a false accusation The story is the subject of tragedies by Sophocles, Euripides and Racine Diagram of the Sophocles, Euripides and Euripides and Euripides and Euripides a Phaethon in Greek mythology, son of the sun-god Helios and the nymph

Clymene Attempting to drive his father's chariot his strength failed, he approached the earth so closely as to scorch it, and Zeus struck him with a thunderbolt into the River Eridanus or Po

Phagocyte Biological term. It refers to white corpuscies (leucocytes) of the blood which can consume bacteria or other cells and envelop particles, which invade the body The phagocytes can leave the blood vessels, and they take part in natural recovery in inflammation and in healing damaged tissue

Pharaoh Kingly title in ancient Egypt. The Egyptian word, "great house," denoting in the pyramid age the royal estates, was used symbolically from the Middle

nouse," denoting in the pyraling age the royal cestates, was used symbolically from the Middle Kingdom onwards, just as the Sublime Porte formerly designated the Turkish sultan The first pharaoh named in the Old Testament is Shishak, those preceding him in Hebrew history still lack precise identification

Pharisee Religious party among the Leaching upheld the precise observance of the Mosale law, both canonical and traditional, they believed in the resurrection of the body and the existence of angels and spirits, thus rejecting the positions held by the Sadducees

Pharmacopoeia Standardand authoritative work on the composition, preparation and dosage of drugs and pharmaceutical compounds issued in various countries The British Pharmacopoela is issued from time to time by the General Medical Council

Pharmacy Art of preparing drugs and compounding medicines In its cruder form it was practised in early times by the priests, and in the Middle Ages in Europe by the monks In its modern form it requires a knowledge of materia medica and chemistry, as well as the system of dosage

chemistry, as well as the system of dosage
The Pharmaceutical Society, established in
1841, is the examining body for those qualifying
for registration as pharmaceutical chemists
under the Pharmacy Acts
Pharos Small island off the coast of
Egypt Here stood the great
lighthouse, or Pharos, built by Ptolemy I,
about 260 BC, which was one of the Soven
Wonders of the World. Alexander the Great
built a great mole to unite the island to bie built a great mole to unite the island to his new city of Alexandria on the coast opposite Pharynx Cavity at the back of the mouth and extending from

the posterior nares to the epiglottis and larynx, where it joins the ocsophagus Into the upper portion of the pharynx open the oustachian tubes on either side. The pharynx is liable to inflammation giving rise to acute or chronic pharyngitis, the former being due to a common cold or to scarlet fever, etc Chronic pharyngitis or relaxed throat occurs from over strain of the voice or excessive smoking

Pheasant Genus of game-birds of Asiatic Pheasant origin (Phasianus) They have short slightly-curved bills, short wings

and long tails Introduced into Roman Britain, the common P colchicus, is now mostly reared by hand the shooting season lasts from Oct 1 to Feb 1 Several other species occur in English coverts, eg, Reeve's from N China, with 5 6 ft black and white tail, Chinese ring necked and Japanese green pheasants

Pheasant's Eye Genus of annual or the buttercup family (Adons), natives of temperate Europe and Asia Having much divided leaves the annual form, growing wild in Britain, with dark-centred crimson petals, and a consider forwards. is a garden favourite Perennial forms with bright vellow flowers from SW Europe are also cultivated

Greatest of the ancient Greek Pheidias Greatest of the analysis of the Country of works of art designed to beautify Athens The frieze in the Temple of Athena, called the Parthenon, much of which still survives in the British Management British Museum, was designed by him and executed by his pupils under his immediate supervision, while he himself sculptured the statue of Athena His statue of Zeus at Olympia was one of the wonders of the ancient world He died in prison, a victim of the jealousy of his enemies, in 432

Phenacetin Carbolic derivative of coal tar used in medicine Com prising colourless, tasteless and odourless crystals, slightly soluble in water, it is employed in 5 gr or 10 gr doses, either in cachets or powdered in water, for relieving pain and reducing feverish temperatures.

Philadelphia One of the principal cities of Pennsylvania, USA, and an important port, situated on the Delaware River It is a great industrial and educational centre and has a university Its area is nearly 130 sq m Founded and named by William Penn in 1682 it has always been in the forefront of American intellectual and Its industries include shipping political life in all its branches, locomotives, and all in dustries connected with educational work It has medical and legal schools, and a vigorous artistic life nourished on its famous art galleries It has two broadcasting stations (495 M, 05 kW and 313 M, 05 kW) (49 5 M, 0 5 Pop 1,950,961

The ancient city of Philadelphia, one of the seven churches of Asia, was in Lydia, and on its site now stands Ala-Shehr, a walled city,

80 m. from Smyrna

Philately Science of stamp-collecting It originated in France in 1862, and in England dates from the Royal Philatelic Society's first meeting, April 10, 1869 World famous stamp collections are those of the late King GeorgeV and the late Philippe von Ferrari part of the latter realised £402,965 at auction in 1922 1925

Philemon Greek dramatist born about 263 BC He wrote nearly a hundred plays and founded the New Greek Comedy

Philemon Influential Christian citizen of Colossae in S Paul's day
The apostle s New Testament letter to him is a charming personal note, appealing to his kindliness to condone the offence of his runaway slave, Onesimus, who was now returning to his duty and, like his master, was one of the apostle's spiritual children

Christian community with certain temporal affairs as deacons, thereby relieving the apostles After his colleague Stephen's martyr dom he preached in Samaria, baptized Queen Candace's Ethiopian eunuch, and subsequently entertained S Paul at Caesarea when journey Philip the deacon is com ing to Jerusalem momorated on June 6

Philip Six kings of France Philip I (1059 1108) increased the power of the French crown by adding to the roval domains Philip II (Philip Augustus, 1180-1223) established a strong monarchy He took from the English kings the greater part of their lands in France and secured his possession by lands in France and secured his possession by his victory over the combined forces of John and the Emperor Otto IV at Bouvines in 1214 He strengthened the royal authority by crushing rebellious vassals, allying with the towns and the merchants and organising a good administration His policy was followed by his successors Philip IV (1285 1314) was involved in a strength with Pone Boniface VIII in which in a struggle with Pope Boniface VIII, in which he gained the victory, again strengthening the authority of the French Crown in the reign of Philip VI (1328 1350) the Hundred Years War with England began Philip himself led the French forces, which were routed at Crecy, 1346

Ph111p Five kings of Spain, of whom the most important was Philip II Born May 21, 1527, he succeeded his father the Emperor Charles V (q v) in 1556 His second wife was Mary, Queen of England. A bigoted Catholic, his chief object was to restore the supremacy of the Catholic Church, overthrown by the Reformation This policy resulted in by the Reformation. This policy resulted in war with his subjects in the Netherlands and led eventually to the establishment of the inde-pendent United Provinces In France he supported the Catholic party, led by the Guises He carried on a long struggle with Elizabeth of England, supporting plots in favour of Mary, Queen of Scots Elizabeth in turn gave help Queen of Scots Elizabeth in turn gave help to the Netherlands, and English seamen plundered Spanish galleons returning from America The complete defeat of the Great Armada in 1588 finally broke the power of Spain Philip died Sept 13, 1698, and was succeeded by his son, Philip III

Philip of Macedon King of Macedonia from 359 336 B C On his accession he entered upon a career as a military leader, which made him ruler of the whole of Greece Against his ambitious designs the Athenian orator, Demosthenes (q v ) directed his famous Philippic orations He was murdered at the age of 46 on the eve of his departure for a Persian campaign, but not before he had laid the foundations for the even greater conquests of his son Alexander

Philippi City founded by Philip of Philippi Macedon in Macedonia S Paul founded a church here to which he addressed an epistle

The Battle of Philippi was fought in 42 BC.

and was a victory gained by Octavian and Antony over Brutus and Cassius

Epistle to the New Testa Philippians the last letter of S Paul now extant. Its authenticity is fully established It was sent authenticity is fully established. It was sent from prison, apparently in Rome, to Philippi, the scene of the apostle's earliest European labours

Philippine Islands Group of is lands between Philip Christian saint He was one of the Philippine Islands leaveen the Pacific Ocean and the China Sea discovered by Magellan in 1521 and ceded by Spain to the U.S.A in 1899 The largest are Luzon, 40,814 sq m. and Mindanao, 36,906 sq m Manila, on Luzon, is the capital The islands are very productive and well timbered Rice, proposely and tables of the capital states of the cap coconuts, sugar, hemp and tobacco are the principal crops, while the forests yield valuable timber Education is well organised and there

is a university Pop (1932) 12,590,369

Philistines Ancient people occupying the Palestine coast-lands S of Joppa Apparently of Anatolian origin, their confederacy of five cities, Ekron, Ashdod, Gath, Ashkelon and Gaza, came into conflict with Israel under Samson, Samuel and David Legendary association with a giant race lacks archaeological support They accepted Assyrian domination of 200 Pc

domination, c 700 RC

Philipotts Eden British novelist and Brown in India, Nov 4, 1862, and educated at Plymouth, he published a series of novels with a Devonshire punished a series of novers with a Devonshire and especially a Dartmoor setting These include Children of the Mist (1898), The American Prisoner (1904), The Mother (1908), and Widecombic Fair (1913) The Owl of Athene appeared in 1936 Of his plays, The Farmer's Wife (1917) and Yellow Sands (1926) were putternally successes. outstanding successes

Philology Term denoting originally the study of what is said and written, now reserved for the study of the words themselves It may investigate the beginnings of human speech or the origin, meaning and use of an individual language's component parts Comparative philology arose when Sir W Jones, 1786, observed that Sanskrit, Zend, Greek, Latin, Celtic and Gothic constituted one, the Aryan, family Other constituted one, the Aryan, family Other groups are the Semitic, Altaic, Austric, Bantu, etc. Human speech is classified as isolating etc Human speech is classified as isolating or monosyllabic, each word having a radical value only, e.g, Chinese, or inflectional, certain elements expressing grammatical relations Some, e.g, Turkish, with inflections of independent form and meaning, were formerly called agglutinative Some, e.g, Latin, attaching inflections to roots, are called synthetic, some, e.g, English, replacing inflections by independent elements, are analytic

Philomela In Greek legend, daughter of Pandion, King of Athens The Thracian King Tereus married her sister, Proces, whom he concealed and, pretending that she was dead, married Philomela also In revenge the fiesh of his own son, Itys, was served up to him Tereus pursued her with an axe and she became the nightingale

Philosophy Term meaning the knowledge of, or search for, the
ultimate principles of knowledge or being
It is derived from Greek words meaning
"love of wisdom" Schwegler defines philosophy as "reflection, the thinking consideration
of things" Philosophy, the same writer says,
distinguishes itself from the empirical sciences
not by its matter, which is the same as that of
the latter, but by its form, or method, its
mode of knowing mode of knowing

mode of knowing
Socrates used the term, in contradistinction
to the name of sophists (wise men) adopted by
Protagoras, Prodicus, Gorgias and other of his
contemporaries, to denote his own attitude
towards the questions debated by the Greek
teachers The term philosophy had a wider
meaning in the Middle Ages than now, being
divided into natural philosophy, moral philosophy and metaphysical philosophy. The first

is now called physical science, and the second ethics, while metaphysics denotes the philosophy of cause and effect, or the nature of being

Phlebitis Inflammation of the veins It results from inflammation of the surrounding tissue, blood poisoning, etc., and may lead to the formation of blood-clots in some cases surgical treatment is necessary, while in all cases complete rest is essential. especially where a clot may have formed.

Phlox Genus of herbs, mostly perennials, American origin, one occurs in Siberia With simple leaves and salver-shaped flowers, panicied or single, many garden forms have come from the perennial P paniculata and P maculata, and the dwarf moss-pink, P sabulata The half-hardy annual, P drummondi, has also yielded vivid blooms mondui, has also yielded vivid blooms

Strip of Syrian coast-land Phoenicia between Lebanon and the Mediterranean The Phoenicians Sidonians of the Bible) were great colonisors They founded Carthage (qv) and were the greatest merchants and seamen of the period. Tyre and Sidon were their principal cities, and the Tyrian purple, a rich dye, one of their main objects of commerce They penetrated as far as Cornwall and the Scilly Islas where they traded for tin Their place in history ends with the fall of Tyre to Alexander the Great in 332 BC

Phoenix Mythical bird of gorgeous plum-age Only one male bird was supposed to exist, and it lived, according to various accounts, from 500 to 12,954 years At the end of this time it burnt itself on its nest, a new phoenix arising from the ashes.

Phoenix Industrial city situated on the Salt River in Maricopa Co., Arizona, USA. It is the capital of the state and has a trade in fruit, olives and livestock. It has a population of 48 118 (1930)

The Phoenix Islands are a small uninhabited group lying between the Equator and Samoa

Phoenix Park Public Park of Dubacres, and surrounding the Viceregal Lodge and other official residences The zoological gardens are also included In 1882 Lord Frederick Cavendish and T H Burke were murdered here

Phonetics Study of speech-sounds, especially in man The human voice, inarticulate or articulate, results from the passage of air through the larynx Modified by the vibrating vocal cords and the relation of the mouth-parts to the mouth and nose-cavities, which act as sounding boards, the volume and resonance of the sounds produced are determined by physiological principles Modern authorities classify consonants accordsibilants, interdentals, dentals, palatals and gutturals Vowels are modified voiced sounds without audible friction The international without audible friction The International Phonetic Association uses a system of script which clearly individualises the pronunciation of words in a language

of words in a language

Phonograph Machine for recording
Invented by Edison In its earlier form it
consisted of a revolving metal cylinder with a
spiral groove cut in its surface which was
covered vith tinfoil, the groove forming the
path of a needle connected with a delicate
diaphragm Sound waves entering a receiver
set up vibrations in the diaphragm consists set up vibrations in the diaphragm, causing

the needle to indent the tinfoil cylinder is now replaced by one of wax

Compounds Phosphates phoric acid and various In commerce it means, chiefly, phos phates of line, occurring as mineral deposits and used largely as fertiliser The impure massive form of the mineral apatite known as phosphorite consists of calcium phosphate, fluoride and chloride, and is an important source of phosphates Other phosphatic deposits represent mineralised guano or other organic material For manural purposes the natural phosphates are converted into super phosphate by treatment with sulphuric acid

Phosphorescence Power possessed by certain and mals and plants of emitting light, a property shared also by some minerals. It occurs in the glow worm, firefly and many marine creatures, especially the deep sea fauna. The phos especially the deep sea fauna. The phos phorescence of the sea is largely due to swarms of minute protozoa (Noctiluca) Some minerals. of minute prototog (Nociluca) Some inherus, such as the diamond and fluor spar, become luminous in the dark, either by friction, heat or previous exposure to sunlight.

Phosphorus having the symbol P and atomic weight 31 0 It is widely distri

and atomic weight 310 to 18 widely distri-buted in nature as phosphates, occurring mostly as calcium phosphato. It is a yellowish wax like solid, which readily oxidises in the air, emitting a pale greenish light. By heating to between 240° and 250° C, it is converted into an allotropic non poisonous and non luminous form, red phosphorus, used in match manufacturing Phosphorus is employed in making vermin killers, phosphor bronze and various organic compounds

Photo-Chemistry Branch of phy It covers the chemical effects of electromagnetic radiations of various wave lengths, from the invisible infra red rays at one end of the scale through visible light rays to ultra violet, X rays and the most penetrating gamma rays at the other Photography is the best known development, but the effects of the invisible rays are the subject of special study leading to important results in the higher branches of chemical science

Photo-Electricity Branch of physics dealing with the electrical effect of radiations on metallic and other surfaces It was long known that certain radiations facilitated the passage of electrical discharges, now recognised as due to their power of causing the emission of electrons The photo-electric cell is a development now widely used, especially in connection with tele vision and the sound film.

Photo-Engraving Printing term exposure of a prepared plate under the negative of a line drawing renders the lines insoluble while the balance may be removed, enabling reproductions to be printed Pictures must first be photographed through a "screen," breaking the image into dots Exposure and develop ment of a prepared copper plate under the negative permits the copper plate subsequently to be etched into similar dots from which reproductions may be printed.

Photography the action of light upon surfaces treated with chemicals sensitive to light. In the 18th century chemists had noticed the action of

The metal light upon silver salts and other substances and the production of fucitive images upon a suitable material, but about 1826 29 a Frenchsuitable material, but about 1826 29 a Frenchman, Niepce, succeeded in producing pictures or "heliographs" by means of a sensitive film of bitumen and in collaboration with Daguerre further improved his process In 1839 Daguerre invented the daguerrotype in which metal plates coated with silver iodide were used Meanwhile Fox Talbot discounted to the contract of the

covered the art of fixing silver nitrate negatives with common salt, thus producing permanent prints This process was improved further by the use of hyposulphite of soda by Herschel, and the introduction of glass instead of paper for negatives followed by the use of sensitised albumen films. The next advance was made in 1851 by a sculptor, Scott Archer, who intro-duced the wet plate with collodion sensitised by silver iodide In turn the wet plate process In turn the wet plate process by silver iodide In turn the wet plate process was superseded by the dry plate or gelatine bromide process in 1871 and more recent developments have been in colour and motion photography and the use of roll films.

Photometer Optical instrument used for measuring the intensity of light and the comparison of the illu minating power of light from different sources. In photometry the unit is the light from a standard sperm candle burning 120 grains per hour, the illuminating power of light from any source being expressed in terms of candle power The different forms of photometers are constructed so as to enable the observer to judge the equality of illumination of two adjacent surfaces.

Photophone Apparatus devised by Prof Graham Bell in 1880 for transmitting articulate speech to a distance along a beam of light. The principle involved in the photophone is the sensitivity of the element selenium, its electrical conductivity being increased by exposure to light.

Photosphere Name given in astronomy to the luminous envelope or radiating surface of the sun, from which light is emitted. Its surface is not uniform in texture, as by aid of the telescope it is seen to have a motiled appearance formed by brilliant areas in a less luminous network, the "rice grains" of Langley and Janssen

Phrenology Empirical system of psy chology claiming that mental faculties and disposition may be gauged from the shape of the skull Founded early in the 19th century by F J Gall, and developed especially by J K Spurzheim, who left him in 1813, it asserted that mental newers comprise trusts except the structure of the structure powers comprise innate faculties independently located in definite brain regions whose size corresponds with the skull's individual configuration Popularised for a time in Great Britain and America, the system utilised phrenological charts, locating 42 faculties emotional or intellectual

Greek word, "wasting," form-erly applied—like consumption specifically to the wasting lung disease now lied tuberculosis (q v) It should be distin called tuberculosis (q v) It should be distinguished from chronic interstitial pneumonia.

Phylloxera Genus of insects belonging to the aphides or plant lice family One, Phylloxera vastatrix, a native of North America, is the most dreaded insect pest of the grape vine It appeared in France about 1860 and spread over Europe, ruining the vineyards, and later ravaged in turn many other parts of the world

Physician One skilled in the art and practice of medicine Only those who are qualified in medicine, surgery and midwifery are allowed to practise as medical practitioners and are registered as such under the Act of 1858

PHYSICIAN

such under the Act of 1858

The Royal College of Physicians whose head-quarters is in Pall Mall East was established in the early 16th century. It gives degrees of licentiate and fellowship, L.R.C.P. and F.R.C.P. In Scotland the Royal College of Physicians of Edinburgh was founded in 1681 and has its hall in Queen Street, there is a similar institution in Dublin.

Physics Term applied to the branch of phenomena and with the laws governing these natural events. The science is based necessarily upon experimental work to obtain data sarily upon experimental work to obtain data for the stating of the mathematical laws which rule this material universe In this investigarule this material universe. In this investiga-tion a study is made of the properties of matter and the phenomena relating to the manifestation of energy in its various forms. The range of study being so wide, physics is broken up into sub-divisions, such as mechanics, dynamics, optics, sound, heat, electricity, magnetism and radiation. In each branch the subject may be considered from a practical or mathematical standpoint.

Physiognomy Art of judging the character of a person from the countenance or external appearance Although a belief in this art is very old and widespread it has been found difficult to formulate definite rules in accordance with the counter the physiography. scientific ideas At the same time physiogno-mical methods have been found useful in pathology and criminology

Section of biology con-Physiology or life processes, as distinct from morphology, the study of form and structure

In its carlier phase the study of living organisms was mainly from the point of view of morphology, but in comparatively recent years it became recognised that form and structure must be interpreted in terms of the life activities of plants and animals

Owing to the ever increasing range of investigation, physiology has widened out into the study of the organism in relation to its environment, forming the branch of ecology Another branch, comparative physiology deals with the comparative study of the functions in different groups of organisms Further, the progress of physiology has been dependent upon the advance made in the alliest upon the advances made in the allied sciences of chemistry and physics, a knowledge of the special technique of these being essential for physiological investigation

Pianoforte Percussive musical instru-ment Cristofori, born in 1651, evolved from the dulcimer his Clavicembalo col piano e forte, the first of true plano-fortes Silbermann improved it, Stein, Shudi and Broadwood added the pedals, and Cle-menti and Beethoven influenced its subsequent evolution The Leyboard comprises a seven times recurrent group of seven white and five black digitals, each of which, when depressed, noves internal mechanism causing a felt-moves internal mechanism causing a felt-covered hammer to strike one of a series of wires of graduated length and varied gauge and tension. Unwanted vibrations are checked by dampers, which can be put out of action by the right pedal. The left pedal diminishes sound-volume by preventing in three ways

(varying according to the planoforte's make the full impact of hammer-force on the wires

Piastre Coin denomination The Turkish 100 piastres each 40 paras Silver pieces of 1, 1, 5, 10 and 20 piastres are coined besides copper fractions, and theoretically gold pieces also The Egyptian pound, nominally 20s 61d is coined in similar denominations, besides nickel and bronze fractions French Indo-China uses a silver piastra nominally 20 China uses a silver piastre, nominally 2s.

Piave River of Italy It rises in the Carnic Alps and flows through the north of the country until it falls into the sea by two mouths near Venice It is about 140 m long There was some fighting along the river during the Great War After their defeat at Caporetto in Oct , 1917, the Italians fell back behind the Plave, where, with the assistance of some British troops, they prevented ussistance of some British troops, they prevented the Austrians from advancing further In June, 1918, there was renewed fighting The Austrians crossed the river, but were driven back Towards the end of the following October the Italians and the British contingent advanced from the Piave and drove the enemy before them until the armistice

Piazza Italian word for a square or open the most famous is the plazza of St. Mark in Venice They are found in other Italian cities

Picardy Province of France before the department of Somme and portions of those of Alsne, Oise and Pas de Calais Its principal city was Amiens, on the Somme The province was ceded to Philip the Good, Duke of Burgundy, in 1435, and annexed to the crown of France in 1477

Picasso Name taken by Pablo Ruiz, Spanish painter Born at Malaga, on Oct 23, 1881, he came to Paris and was associated with Braque (1906-12) becoming known for his cubist works He was influenced by Cézanne and El Greco Later he reverted to the manner of Ingres, turning out pictures in a less challenging style \_In 1931 an exhibition of his works was held in London

Piccadilly London thoroughfare It to Piccadilly Circus Here are a number of the principal clubs, several hotels, and Burlington House, occupied by the Royal Academy, the Royal Society of Arts, etc Regent St. crosses Piccadilly Circus, and Coventry St, Shaftesbury Ave, and Glasshouse St lead out of it

Piccolo Smallest flute It sounds an octave higher than the concert

flute, and than its written part It is pitched in D for ordinary orchestral use, in E flat and F for military band purposes

Pickering Market town and urban district of Yorkshire (N R.),
32 m from York, on the L N E Rly (junction)
The church (partly Norman) contains ancient mural paintings Pop (1931) 3668

Picketing Term denoting the posting of persons about a works, during a strike, to dissuade the employees from Made illegal in 1875 (so far as any working compulsion was brought to bear by the pickets), what is termed peaceful picketing was legalised by an Act of 1906. An enactment was icralised by an Act of 1906 An enactment of 1927, following on the general strike of 1926, made picketing illegal, if committed in respect of a strike declared unlawful Sec. Thank Sec TRADE UNTON

Pickford Mary (née Smith) American cinema actress Born in Toronto, April 8, 1893, she married Douglas Fairbanks, March 28, 1920 Appearing on the stage in 1898, she afterwards acted in Nov York, and began screen work under D W Griffith The Mary Pickford Film Corporation Griffith The Mary Pickford Film Corporation was formed in 1916 and gave her the highest salary in the profession She appeared in many films, including Rebecca of Sunnybrook Farm Daddy Long Legs and Coquette In 1919 she became an independent producer

Picric Acid Synthetic compound also prepared by the nitration of phenol or carbolic acid or by the nitration of phenol or carbolic prepared by the intration of monochlorbenzene, picric acid is a poisonous, yellow crystalline substance used in the manufacture of explosives (lyddite), as a dye for cotton, and in medicine as an antiseptic, and in the treatment of burns

Pictography (or Picture writing) Use denote facts, events or ideas Derived from the primeval arts of design, it was man's earliest method of making a more or less self-explanatory record. In the early metal ages of the Old World it was destined to pass into a alphabetic writing Carried during the pre metallic age into America, it developed local systems of picture writing among the N American plains Indians, and a more complex symbolism among the pre-Columbian Maya and Aztec peoples

Pictou Seaport of Nova Scotia, Canada Pictou It is on the north side of Pictou Bay, an inlet of Northumberland Strait, 118 m from Halifax Coal is exported

Pop 3000

Pop 3000

Picts People occupying E Scotland from pre Roman times onwards Appar ently sharing N Britain with the 3rd century Caledonians, and first mentioned in Constantius Chlorus' campaigns, 296 and 306, their subsequent incursions S of Hadrian's Wall helped the Scots to harass the Roman power Their turbulent history is scantily recorded down to Kenneth MacAlpin, a Pict by maternal descent, who united Pict and Scot under one rule, 844

Piedmont Department (compartmento) of NW Italy, including the provinces of Alessandria, Novara Cuneo Turin, Aosta and Vercalli Lake Maggiore is on its E border, and its French and Swiss borders are mountainous, enclosing fertile plains which produce fruit, chestnuts, olives rice and wine The Po and its tributaries traverse the district, which covers an area of about 11 300 sq m. For centuries it formed part of the dominions of Savoy, was occupied by the French, 1796, passing to Sardinia in 1814 It became part of the kingdom of Italy in 1859

Pier Architectural term applied to an iso-wall between two adjacent windows or open waii between two adjacent windows or openings or to the massive columns of a Norman arcade, also to the clustered columns of some Romanesque churches us in the nave of S Miniato, Florence Norman piers of the 11th and 12th centuries are usually massive with a rubble core faced by ashlar, and are rectangular or more or less circular, the two types often being used alternately in an arcade

Pleta Term in art used for a representation of the Virgin embracing the dead body of Jesus, or of similar scenes at the deposition from the Cross. La Pieta, a group

of sculpture of this type executed in S Peter's Rome, was one of the early masterpieces of Michelangelo, and this subject also has been the theme of many paintings.

Pietermaritzburg City of South Africa, also called Maritzburg. the capital of Natal called Maritzburg, the capital of Natal Founded by the Boers in 1839, it stands near the Umsindusi River, 73 m by rly from Durban Industries comprise brickmaking, tanning and brewing Pop 20,671 (whites)

Pig Animal belonging to the family Suidae of the order Ungulata The group comprises, besides the true pig, the wart-hog, bush pig and babyrussa Domesticated pigs are derived from the wild boar Principal British breeds include the large white, middle white, small white, Tamworth, large black, small black, Lincoln and Berkshire. Though in a wild state the pig frequents Though in a wild state the pig frequents marshy regions it is a mistake to suppose that the domesticated animal is dirty or loves to wallow in mud It pays to provide pigs with cleanly, roomy and well ventilated sties. An omnivorous feeder, the pig requires proper, well varied diet, and will not thrive on garbago See BACON

Pig Iron Crude iron, the product of the blast furnace, containing about 3 per cent of carbon and small quantities of silicon, manganese, sulphur and phosphorus It is hard, brittle and moderately fusible, and is east in U shaped moulds called "pigs"

Pigeon In general, all birds belonging to the order Columbiformes (true pigeons, doves and certain extinct birds, e g the dodo) In its more limited meaning th In its more limited meaning the name is given to members of the genus Columba comprising about 70 species, the typical pigeons Widely distributed over all but the coldest regions, the genus is particularly numerous in Australia, Malay Archipelago, New Guinea and adjacent islands

British species include the wood pigeon, stock dove and blue rook. Domesticated pigeons include many fancy varieties with widely differing characteristics. The homor is used for message carrying, the carrier being a purely fancy strain. The pouter has an extremely large crop, the tumbler is dis a purely fancy strain. The pouter has an extremely large orop, the tumbler is distinguished for its manner of flight the fantall by its widely expanding tail. Much attention is paid to the training of homing pigeons for long distance flights and periodical contests are hald the birds beling flown from far distant are held, the birds being flown from far distant starting places to their home

Pigment Colouring matter In painting it may be of mineral, vege In painting table, animal or synthetic origin. As a rule mineral pigments are the most permanent, while animal and vegetable are fugitive Synthetic substances such as alizarin and aniline derivatives now replace many of the older natural pigments

Pigment is present in the epidermis of many mammals, in birds chiefly in the feathers, and in fish, insects and crustaceans in special secreting cells Apart from pigments the colours of plumage, hairs, etc., are due largely to reflection, interference and other optical effects. effects Haemoglobin, the colouring matter of blood, and its derivatives form the commonest of the animal pigments

Pig Sticking Sport of hunting the India. Huntsmen in parties of three or four pursue the animal, when beaten out of cover, and endeavour to ride it down and spear it.

Since the boar, when wounded, may turn and show fight, pig sticking involves some danger, and demands coolness, nerve, and excellent

horsemanship

Pike Infantry thrusting weapon It comprised a long straight shaft and sharply-pointed metal head, conical or flat and spearlike, the butt being sometimes spiked It dominated the infantry equipment of 15th century Europe, especially among the Swiss, who used 18 ft pikes besides various types of halberds The 17th century bayonet displaced the pike

Family of soft-finned, freshwater fishes inhabiting N temperate re-Pike The voracious common pike, Esox of Britain and Europe, prefers lakes luggish reaches Its long compressed lucius, and sluggish reaches and suggish reaches its long compressed body, up to 30 lb and more, is covered with small scales, the large mouth being armed with strong teeth The young are called jack

Pilaster Architectural term for a flat rectangular column, either fluted or non-fluted, built into and partly projecting from a wall In Renaissance architecture slender pilasters often separated the roundheaded windows from one another in secular Italian building and in the Tudor and Strayt Italian buildings, and in the Tudor and Stuart period walls were often covered with classical

pilasters

Pilate Pontius Roman procurator of Samaria and Idumaea, under whom Jesus Christ suffered crucifixion Coming from Tiberius' household, apparently a Coming from Tiberius' household, apparently a freedman, his unsympathetic ten years' governorship, A D 26-36, is noted with indignation by Josephus and Philo His attitude during the trial of Jesus has in all ages been variously interpreted The Abyssinian Church commemorates him as a saint on June 25, the Eastern Church his wife, Proc(u)la, on Oct. 27 Legend exiles him to Gaul, ascribing his end to suicide his end to suicide

Pilatus Mountain of Switzerland, about Lake of Lucerne, 6996 ft high The name has no connection with Pontius Pilate, but is derived from Mons Pileatus, "the cloud capped mountain"

Pilchard Marine food-fish of the herring family (Sardina pilchardus), abundant in the Mediterranean and on the Atlantic coasts of N Europe to the English Chaunel The sardines of the W coast of France, 5-71 in long, tinned in oil for export, are immature fish of the same stock as that up to 41 in long, which furnishes the nitchard up to 14 in long, which furnishes the pilchard fisher; off Cornwall and adjacent coasts. An allied species occurs on the Pacific coast of America, New Zealand and Japan

Pile-Dwelling Primitive habitation built on piles This constructional method arose in neolithic Europe, especially on shallow lake margins, and continued the west through the continued the west through the continued the same transfer and continued the same transfer and continued the same transfer are transfer as a same transfer are transfer as a same transfer are transfer as a same transfer as a same transfer are transfer as a same transfer as a Europe, especially on shallow lake margins, and continued through the early metal ages It still occurs in aboriginal Africa, pile-granaries for protection from animal depredation being also used, as formerly by the Maori Borneo mises piles 40 ft. high In New Guinea and neighbouring islands pile-villages resembling those of neolithic Europe often extend far out to sea. They occur also in the Burmese Shan States and the Nicobars See Lake-Dwelling States and the Nicobars Sec LAKE-DWELLING

Piles (or haemorrhoids) Dilated condition of the veins at the lower end of the rectum, sometimes protruding through the anus and accompanied by bleeding Since they are usually caused by constipation or some internal !

disorder, strict attention should be paid to the diet and general health Diet should be simple and contain plenty of fruit and vegetables, alcohol is prohibited, drastic purges should be avoided, but the bowels can be regulated with liquid paraffin Scrupulous cleanliness of the paraffic exception of the application of parts is essential, and the application of vaseline will aid in defecation. If the condition is severe a doctor should be consulted

Pilewort (or Lesser Celandine) Peren-family (Ranunculus ficaria) The fibrous roots develop annually several small stout cylin-drical tubers, used by herbalists for curing plies, and when boiled an agreeable pot-herb The shining stalked heart shaped leaves contrast with the starry, single bright-yellow, 1 in flowers See CELANDINE

Pilgrim One who, from religious motives, journeys to a place held sacred Pllgrimages are undertaken for penance, in discharge of religious obligation, or in quest of bodily or spiritual benefit. The practice, traceable to ancient Greece and W. Asia, still prevails in India, and is enjoined upon Moslems Christian pilgrimage to Mecca and elsewhere to Alecca and elsewhere Christian pigrinings to Palestine especially developed after Constantine Medieval Europe also fostered visiting the tombs of saints, as those in Rome, S James of Compostela, Becket at Canterbury and Our Lady of Walsingham, while curative pilgrimages are still made to Lourdes.

Pilgrim Fathers Earliest settlers of Plymouth colony, Massachusetts, and specifically the first company of emigrants who sailed from Plymouth, Devon, in the Mayllower, reaching Plymouth Rock, Massachusetts, 1620 They were Puritans, largely from SE England, who left the homeland under a royal promise of non-interference with their freedom of worship oversea. The tercentenary of their worship oversea The tercentenary of their sailing occasioned enthusiastic celebrations in England, Holland and America, 1920 The oldest Congregational church in London, founded in the New Kent Road, 1616, was enlarged by American subscribers in memory of Southwark men who sailed in the Mayllower. 1856, being called the Pilgrim Fathers Memorial Church See MAYFLOWER

Pilgrimage of Grace
Insurrection in the N of England, 1536-7.
Occasioned by the dissolution of the smaller
occasioned by the dissolution of the smaller
occasioned by the dissolution of the smaller monasteries and various economic grievances,

monasteries and various economic grievances, a Lincolnshire rising was quickly suppressed A more formidable one, headed by Robert Aske and other Catholic gentry, broke out in Yorkshire, the leaders were executed, and a Council of the North established Pilgrim's Way Road used by pilchester to the shrine of St Thomas a Becket at Canterbury, following, in part, a more ancient track It is about 120 m long and goes tra Alresford, Farnham, Albury Pk, Burford Bridge, Merstham, Chevening, Mosham, West Malling Hollingbourne and Charing Pilgrim Trust Fund founded in 1930 Edward Stephen Harkness He set aside a

Edward Stephen Harkness He set aside a sum of £2,000,000, the interest of which is devoted to assisting charitable causes in Great Britain, in recognition of the way the country had discharged its obligations since the war A trust was formally instituted with Mr Stanley Baldwin, MP, as president and Mr Thomas Jones as secretary.

Pillory Form of punishment used in countries It consisted of a wooden frame supported upon a post, the culprit's head and hands being thrust through holes in the frame In the 17th century it was used for punishing offences such as unliconsed publishing of books and seditious libel At the beginning of the 19th century it was still in use for perjury, but was abolished in 1837

Pilot Person who navigates a ship or controls an aircraft. A licensed pilot is employed to navigate a ship into or out of a port or harbour, through a river, channel or road When a vessel wishes to enter, e.g., a port, a recognised signal is made and a local pilot goes out to board the vessel for the purpose An outgoing ship drops the pilot after he has conducted her into open water Generally it is compulsory for a ship to be conducted by a licensed pilot when entering or leaving a port The master or mate, however may be a qualified pilot. Licensing is carried out by the local chief officer of customs

Pilots for aircraft are certificated after completing specified training and passing appropriate tests.

Pilot Fish Subtropical marine fish of the horse mackerel family (Naucrates ductor) About 12 in long, spindle shaped, steel blue with dark vertical bars, it often accompanies sharks and ships, doubtless for the food supply The popular notions that it warns sharks of the baited hook and sailors of the proximity of land are alike fabulous

Pilsudski Joseph Polish statesman A Lithuanian, born in Nov 1867, he was in conflict with the authorities while still a student, on account of his nation alist and socialist tendencies, and was exiled spending 4 years in Siberia Escaping from a later imprisonment in St Petersburg, 1901, he visited Britain and the East, but the outbreak of the Great War found Pilsudski again in Poland, whence he invaded Russia with a Polish army He was chosen President of the new republic set up in Poland, 1919, resigning, 1922 He was made Marshal, 1920 He headed a revelt in 1926 which brought about the fall of the government, himself becoming Premier and Minister of War Resigning the major of War Resigning the major he became virtual dictator office, 1928 he became virtual ulcand. Pilsudski again became Prime Minister in 1930 but in March, 1932, he was appointed Minister of Military Affairs, and Alexander Prystor took office as Premier Pilsudski died on May 12, 1935 He wrote many historical works dealing mainly with Poland's struggles for independ ence, including Historical Corrections (1931)

Piltdown Skull Fossil human bones Down Sussex, 1911 15 Quaternary gravels plown Sussex, 1911 15 Quaternary gravers yielded fragments of a skull, partly mineralised the right half of a lower jaw and some teeth Subsequently an implement hewn from an elephant a thigh bone emerged close by Named Econthropus, "dawn man," the remains represent the oldest known human race in Europe

Pimento (or Jamaica Pepper) Dried fruit the myrtle order (Pimenta officinally), widely grown in Jamaica and Central America Also called allspice, because its flavour supposedly combines those of cinnamon nutmeg and cloves Its essential oil largely eugenol, is used in pharmacy like oil of cloves, and for perfuming soaps

Pimlico District of London between Chelsea and Westminster, in the city of Westminster It is bounded by the Thames on the S and E, Chelsea on the W, and Belgravia and Victoria St Westminster on city of Westminster the N Pimlico Road connects Royal Hospital Rd and Buckingham Palace Rd.

Pimpernel Genus of herbs of the primrose order (Anapolius) natives of Europe Asia and N Africa. The wheel shaped corollas of A arvensia scarlet in Britain, blue in continental Europe, expand in clear forenoons hence the name poor man's weather glass The allied bog pimpernel has rosy, funnel-shaped corollas

Pinchbeck Reddish - yellow alloy of copper formerly much used in the manufacture of cheap jewellery and cases for watches its composition varying from 80 to 93 per cent copper, with 20 to 7 per cent zinc It was named after Christopher Pinobbeck an 18th century London watchmaker who is said to have invented it.

Pindar Greek lyric poet Born near Thebes, about 522 BC he composed, at the age of 20, a choral ode in honour of a victor at the Pythian games His Epinicia or odes are divided into four books dealing respectively with the Olympian Pythian, Namean and Isthmian games He died in 443 B.C.

Pine Genus of large evergreen cone-buted in the N hemisphere Pines differ from firs in having the needle-shaped leaves clustered in twos to fives The only species indigenous to Britain is P sylvestris, 70 100 ft high, popularly called the Scotch fir The most important timber tree of N Europe, it also yields turpentine, resin and tar

Pineapple S American perennial herb of the Bromelia order (Ananas sativus), now naturalised throughout the Old World tropics The edible fruit consists of the flower-spike consolidated into a richly portumed succulent mass, much improved under cultivation Introduced into 17th century Europe, it is raised in hothouses while large canning and export industries have arisen in Singapore the Azores, Fiji, Hawaii and Natal Fibre prepared from the leaves yields the grass-cloth of Formosa, Java and the Philipripes. leaves yields the grass Java and the Philippines

Java and the Philippines
Pinero tist Born May 24, 1855, he was an actor 1874 to 1881 He produced comedies at the Court Theatre, 1885 93, including The Magistrate, The Cabinet Minister The Amazons Elsewhere he staged The Profligate, 1889, and Sweet Lavender, 1888 The Second Mrs Tanqueray gave Pinero a leading position among British playwrights Other plays include Trelawney of the Wells, The Gay Lord Quex, Mid Channel and A Cold June (1932) He was knighted in 1909 He died on Nov 23, 1934
Ping Pong Table tennis game introduced about 1901 It is played on a table 9 ft by 5 ft., divided by a low net, into two courts Light wooden racquets and a small celluloid ball are used Each player serves five times in succession, and

Each player serves five times in succession, and the ball must hit the table on the player's side and thence bounce into the opponents court No volleying is permitted Game is 21 up, but it goes beyond that figure if the players are 20 all.

Pink Name denoting cultivated forms of various species of Dianthus (q v)
The pinks of English gardens, single or double

derive from a Mediterranean form, D pluma rius, naturalised in parts of Britain since Stuart times, with rough-edged leaves and

Stuart times, with rough-edged leaves and fragrant rose-purple flowers, often fringe-petalled Some tufted rock-pinks come from the native Cheddar and Maiden pinks Brilliant blooms are furnished by the China or India and Japan pinks.

Pinkerton Allan American detective Particular and Sapan pinks.

Omigrated to America in 1842, and opened a detective agency in Chicago in 1850 In 1861 Pinkerton organised the US Secret Service, and was Lincoln's guard He brought about, in 1876, the suppression of the Molly Service, and was Lincoln's guard He brought about, in 1876, the suppression of the Molly Maguires, an Irish secret society which had terrorised the coal residual to the coal res

Pinkerton's Detective Agency was carried on by his sons, and became famous for the part it played in solving notable crimes Allan Pinkerton, a grandson, died in 1930

Pink Eye Contagious and infectious disease of horses (equine influenza) The membranes of the eye become red and swollen, so that the eye takes on a deep red tingo The name is also applied to an infective conjunctivitie in human halors. infective conjunctivitis in human beings

Pinkie Battle of Fought Sept 10, 1547, near Musselburgh, between an English army of 16,000, led by the Protector, Somerset, and the Scots, 23,000 strong The purpose of the invasion was the enforcement of a treaty of marriage between Edward VI and Mary, Queen of Scots The Scots were completely defeated

Dimension Name given to a small salling

Pinnace Name given to a small sailing provided with oars for use if needed, also to an eight-eared boat. Pinnaces are used generally as tenders for larger vessels and form part of the equipment of a warship, the modern pinnaces between a small sailing. pinnace, however, usually being motor driven

Pinner District of Middlesev, 3 m from NW of London, on the Pin (Motro, LMS and LN.E Rlvs) The flint stone church of S John the Baptist dates from the 14th century, and contains a mural monument to H J Pin the post leavests. H J Pro, the poet laureate

Pint Measure of capacity both for liquids and dry goods The English pint is one-eighth of an imperial gallon, equivalent to 4 gills In compounding medicines a fluid measure is used, a pint being equal to 20 fluid ounces A Scottish pint is approximately equal to three imperial pints

Pinxton Market town of Derbyshire, 6 m. from Mansfield, by L M S and L N E Rlys Extensive coal mines are near, and lace is made Pop 5348

Piozzi Hester Lynch English authoress. Jan. 16, 1741, she married, in 1763, Henry Thrale (d 1781), a wealthy brewer They lived at Streatham, London, and here began their famous friendship with Dr Johnson. Wrs Thrale, in 1784, married Gabriel Piozzi, an Italian music master and went with him to Florence. In her Ancedoles is a vivid account of Johnson She also wrote The Three Warnof Johnson. She also wrote The Three Warnings, a novel, and an autobiography. She died at Clifton, May 2, 1821

Pipe Cylindrical instrument with holes through which air passes, making musical sounds All wind instruments, including the organ are "pipes."

There are (1) Whistle pipes (like Panpipes), (2) Reedpipes, single-reed (like the clarinet), double-reed (like the oboe), and free (like the harmonium), (3) Pipes with cup mouthharmonium), (3) Pipe pieces (like the trumpet) "flue," "reed."

Organ pipes can be "flue," "reed,"
"stopped" or "open" See REED
The tobacco pipe was invented in pre-Columbian America, specimens being found in ancient Indian mounds Introduced into England by Raleigh in 1586, it was first regularly manufactured out of clay in London in 1619 Briar pipes, a later development, are made from the Mediterranean tree-heath, or bruyère root, of E France and Italy See TOBACCO

Pipe Clay Fine white plastic clay centage of silica than kaolin or china clay, and used for making pipes, tiles and as cleaning material for leather

Pipe-Fish Name of a group of long, slender, tuft-gilled fishes akin to the sea-horse, generally found in the waters of tropical and temperate seacoasts The males mostly have pouches for safeguarding the eggs until hatched Five species in British waters include the sea adder, 2 ft long, the great pipe fish, 18 in, and the worm pipe fish, 6 in

Pipe Line Continuous line of pipes for carrying water from a reservoir, or for the transport of petroleum from the oil well to the refinery or port Oil can thus be brought over great distances, as in the United States where there are over 90,000 m of underground pipes of 4 to 12 in in diameter also in Persia where oil is carried for 150 m. across deserts and over mountains

Pipe Roll Name given to the early financial records of the Exchequer consisting of a series of parchments originally rolled up together into a pipe like roll. The first record dates from the reign of Henry I, and a continuous series exist from the time of Henry II down to 1834

Pipit Genus of song-birds akin to the wagtalis (Anthus), widespread especially in the Old World Of three British species the commonest, the meadow pipit or titlark, is partly resident, partly migratory. The tree-pipit, a summer visitor, is called the woodlark in Scotland

Pippin Name for several varieties of apple, pre-eminently Newtown Ribston, golden, Blenheim, lemon and Cox's orange pippin It formerly denoted any apple raised from pips, not by grafting

Piquet Card game, The two players use 32 cards, twos to sixes being climinated Derived from the Italian 16th century ronfa, and played in Tudor England in a Spanish form called cent, it was ronamed piquet when Charles I married Honrietta Maria Each player receives twelve cards, the other circle to the player control of the cards, the other eight being available, face downwards for exchange Points count for various combination and tricks Since about 1880 rubicon piquet, playing 100 points or six hands, has largely superseded the older five hand rule

Piracy Anv act of robberv and depredation which if committed upon land, would constitute felonv is piracy if committed upon the high seas Certain other offences are statutory piracies namely, an act of hostility at sea by a natural-born British subject under colour of a foreign commission, the assisting of an enemy at sea by the same

in time of war, mutiny, the running away with a ship, guns, ammunition or goods, the voluntary yielding up of these to a pirate. The voluntary yielding up of these to a pirate penaity was formerly death, the pirate being tried by an admiralty court, now it is penal servitude for life or less, and offenders are tried in the ordinary way Piracy is still common in the ordinary way in Chinese waters

Piracus Seaport of Greece on the Saronic Guif, 6 m S W of Athens Founded by Thomistocles and Perioles it was Piraous connected to Athens by two walls Piracus was destroyed by Sulla 86 nc, and rebuilt in 1835 after Greece regained independence from the Turks Piracus is now connected with Athens by railway, and its modernisation was started in 1929 Po 251,330

Pirandello Luigi Italian dramatist and novelist. Born near Gir genti, Sicily, June 28, 1867, after graduating at Bonn University, he taught in Rome, producing his first book, Mal Gioconda in 1889 In 1910, having published many novels and stories, he began to write plavs, the best known being Six Characters in Search of an Author (1921), Henry the Fourth (1922) Cuscuno a Suo Modo (1924) The Lofe That I Gave Him appeared in London in 1934 His plays have won him wide recognition by their brilliance and originality and originality

Pisa City of Italy, on the Arno, 7 m from its mouth in the Ligurian Sea and 50 m by railway from Florence The Gothic cathedral (1063 1118) is a magnificent white marble structure with an elliptical dome 190 ft high and the campanile or Leaning Tower (1174 1350) is notable 1409 the Council of Pisa was held to deal with the schism which arose as a result of the resid ence of the rival pontiffs at Avignon. Pop

(1931) 73,041

Pisano Andrea Italian sculptor architect, born at Ponte r 18410 architect, born at Pontedera, c 1270 He decorated, in relief, a set of bronze doors for the baptistory at Florence He died, c 1349 Niccola Pisano, born c 1206, produced the sculptured pulpit in the baptistery of Pisa, his hirthplace, and also that of the cathedral at Siona He died in 1378 Giovanni, his son born c 1250, built the tomb of Benedict XI at Perugia He died c 1330 Vittore Pisano or Pisanello, was an artist and medallist. Born at San Vigilio, c 1380, he was responsible for portrait medals of many of the contemporary princes He died in 1456

Piscina Latin word denoting in ecclesi astical usage a shallow stone basin draining to the earth, used by the priest for ablutions after the Mass Usually niched in the sanctuary wall on the altar s S side, it often survives in English pre Reformation churches from the 13th century onwards, some times in elaborate architectural settings

Pistachio Nut Kernels of fruit born by the Pistachio verae, They are bright-green in colour and taste like sweet almonds They contain over 50 per cent of oil and about 23 per cent of albuminoids, and are much used in cookery

Pistol Small firearm It was invented at the beginning of the 16th century, the wheel lock mechanism being used in these and later forms of pistols, although about a century later the flint-lock came into use introduction of the percussion cap for larger firearms in the early 19th century led to its use in pistols superseding the older methods

The revolver with rifled barrel and revolving cartridge cylinder also came into favour, displacing the old type of pistol, as the modern automatic pistol is tending to supersede the revolver

Pistole Former gold coin of Spain, worth about 17s The name (French) was also used for the French louis d'or and other gold coins

Part of a pump or engine It is a circular plate or short cylinder of metal or other material fitted into a hollow cylinder, in which it moves backward and forward the movement being caused by fluid or steam pressure Pistons are used in pumps and various forms of engines

Pitcairn Small island in the Pacific, equidistant from Lima, Poru and Auchland, NZ It was discovered in 1767 by an officer of the Carteret and is occupied by descendants of the mutineers of H M S Bounty (1790)It was annexed by Great Britain in 1839 Its area is 2 sq m

Pitch Height or depth of sound. Low pitch is produced by slow, high pitch by rapid vibrations Standards of pitch have always varied Apart from ancient prac tice, there have been the following standards

1 Classical Pitch, estimated at A=415 to 429 vibrations per second, C=498 to 515

vibrations per second
2 High Pitch (caused through the increasing brilliance of orchestral playing) which was in 1859 logalised in France as A = 435 vibra tions per second, C true = 522 vibrations per second C by equal temperament = 517 vibrations per second
3 New Philharmonic Pitch

In 1898 the Philharmonic Society adopted a standard of A - 439 vibrations at 68 Fahrenneit or A = 435 at 59° Fahrenheit This low standard

is now general in concert use

English military bands played at High Pitch until 1928 when they were instructed to adopt the Philharmonic Pitch A = 439 vibrations per second, B flat 465 1 vibrations per second, C = 522 vibrations per second at 68° Fahrenheit

On Armistice Day, 1930, the Brigade of Guards publicly set the new standard.

Pitch Term used in mechanics for the distance between the centres of gear teeth or the crests of sorew threads I'he pitch is generally referred to as so many threads to the inch, thus four per inch would mean four threads and four spaces per inch in length, the pitch in this case being termed 1 in

Pitch Black, viscous substance obtained from coal tar as a residue in the still after fractional distillation It is obtained also from the distillation of oils and wood tar Mineral pitch is the name often given to natural asphalt or bitumen, and Burgundy pitch is the resinous exudation from the spruce fir. Picea excelsa.

Pitchblende Mineral consisting of a mixture of uranium oxides with oxides, sulphides and arsenides of lead, iron and other metals Dark brown or black with a pitch like lustre, it is the chief ore of uranium and radium as well as various rare metals Pitchblende occurs in small veins in gnelss schist and slate in Cornwall, Norway, Joachimstal in Bohemian, and North America The Bohemian pitchblende is worked chiefly for sodium uranate and indirectly for radium.

ìóoi

Pitch Lake Name given to a lake the extreme SW of the Island of Trinidad Its area is about 100 acres and while the asphalt is firm and solid near the shore it is soft and boiling at the centre

Insectivorous plant Pitcher Plant with pitcher shaped leaf organs A large genus of shrubs, Nepenthes, found in eastern tropical forests, bears such receptacles, the thick, corrugated mouths produce sweet excretions attractive to running insects, which collect within and are digested by other glandular secretions In the E United States the side saddle plant, Sarracema, also bears insectivorous pitchers

Village and summer resort of Pitlochry Pitlochry Perthshire, on the Tummel, 28 m from Perth, on the L M S Rly, near the Pass of Killierankie and Loch Tummel Pass of Killiecrankle and Loch Pop 2341

Pitman Sir Isaac Inventor of the Pitman System of Shorthand lie was born at Trowbridge, Wilts, Jan 4 1813, and became a schoolmaster He published his Stenographic Sound Hand, 1837, and two years later set up a printing establishment at Bath His main object became the tagging and development of his phonographic system of shorthand, which met with extra-ordinary success. The Phoneire Journal, was hegun in 1842 He was knighted in 1891 He died at Bath, Jan. 12, 1897

died at Bath, Jan. 12, 1897

Pitt William British statesman Born Chatham, he took his degree at Cambridge 1777. and was called to the bar in 1780 Elected MP for Appleby, 1781, he was made Chancellor of the Exchequer by Shelburne, July, 1782, but the government fell in the following February In Dec, 1783, North and Fox's coalition came to an end and Pitt formed a government in which he had to face the opposition of a large parliamentary majority In 1784 he returned to naves and introduced a number of financial parliamentary majority in 1002 he returned to power, and introduced a number of financial reforms, reorganising the East India Co, and doing away with many sinecures in the Customs Service He established the sinking Customs Service fund in 1786

The outbreak of the French Revolution made many difficulties, and in 1793 Britain went to war with France, Pitt being Minister of War He suppressed the Irish Rebellion of 1789 and effected the union of the two parliaments by the Act of 1800 He had intended to include a magnetic factor. to include a measure for Catholic emancipation, but, owing to the opposition of the king, abandoned this and resigned office early in 1801. He returned in 1804 when fear of a Aspoleonic invasion brought him support from all parties. all parties Hearing the tidings of Napoleon s success at Austerlitz, Pitt, then in poor health, returned from Bath to London where he died on Jan 23, 1806

Pittenweem Scaport town and burgh of Fifth, 9 m from St Andrews The industries are fishing and the curing of fish Pop (1930) 1619

Pittsburg City of Pennsylvania, on the Monongahela and Alleghany rivers join to form the Ohio River On a number of the Monongahela (Pennsylvania, Baltimore and railway lines (Pennsylvania, Baltimore and Ohio, etc.), Pittsburg is one of the chief from and steel working districts of the world

locomotives, rails, piping machinery and apparatus, tinplates, bricks, glass, coment and chemicals Andrew Carnegie came here in 1848 and set up iron and steel works He founded the Carnegie Institute for technical education in 1900 The city has three broadcasting stations (48 86, 25 25 and 19 72 M) Pop (1930) 669,817

Pityriasis Name of various scaling skin affections Pityriasis alba is commonly known as dandruff Prosea attacks the trunk and upper parts of lower limbs, where pinkish spots develop These shed greasy scales from the edges P versished greasy scales from the edges P versi-color is a parasitic disease, due to a fungus, the patches being irregular and brownish A more serious disease, often fatal, is P rubra. There is a widespread redness, and large paper-like scales are shed

Pius Name borne by a number of Popes Pius Y, born June 2, 1835, was pontiff from 1903 until his death on Aug 20, 1914 He had to deal with the situation created by the separation of Church and State in France by Briand He also adopted

in France by Briand He also adopted strenuous measures against the modernists Plus XI, born May 31, 1875, was chosen pope in 1922, on the death of Benedict XV The notable achievement of his pontificate was the ending of the anomalous condition between state and church existing since 1870, and the transfer of the tran and the re-establishment of the temporal power of the papacy in 1929, which involved the creation of the Vatican City as a state ruled by the pontiff An enthusiastic mountainer in earlier years, his Climbs on Alpine Perde appeared in 1922 Peaks appeared in 1923

Spanish conqueror Born at Truillo, Pizarro Francisco Spanish conqueror Born at Trujillo, Estremadura, c 1478, he entered the Spanish Army and saw service in Italy He made a voyage of exploration to America and was with Balboa when the latter discovered the Pacific (1513) The conquest of Mexico (1520) aroused in Pizarro the desire to secure Peru He made a voyage there in 1526, but had insufficient forces to attempt a settlement, and it was not till six years later that Pizarro, and it was not till six years later that Pizarro, Almagro, and 183 men landed at Tambez By an act of treachery he captured and executed Atahualpa, and set up Manco as ruler Cuzco was taken in 1533 and on Jan 6, 1535, Pizarro founded the city of Lima as the new capital Almagro conquered Chile, while Pizarro retained control of the N part of the territory In 1537 Almagro came to the relief of Cuzco, then besieged by an Indian army, and the revolt was suppressed Later, war broke out between the two factions and Almagro was defeated and executed by the Pizarrists in 1538 Pizarro himself was assassinated on June 26, 1541, at Lima by the Almagrists 26, 1541, at Lima by the Almagrists

Placer Term used in mining for alluvial deposits containing gold and tin ores, as well as rarer metals, and consisting of sands grits and fine to coarse gravels. They represent generally river and lake deposits of recent geological formation, but in Australia and California the placers or "deep leads" are ancient river beds buried beneath basalt.

Plague Term formerly embracing various epidemic diseases, now restricted to a malignant fover whose specific cause, Bucillus pecies, was identified, 1894 Epidemics occurred during the Roman Empire in mediaeval Ohio, etc.), Pittsburg is one of the chief from Europe, notably in the 14th century Black and steel working districts of the world Other industries include the manufacture of Australia, India, Russia and elsewhere Three Throo

fourths of all plague cases are bubonic, the remainder are septicaemic, without localised glandular swellings, or pneumonic, with cough and dark expectoration Mortality is high, especially among Orientals. No specific remedy is known Hankines anti-plague serum has had some success See Great Plague.

Plaice Marine food fish of the flatfish family (Pleuronectes platessa), in habiting N European waters, from Iceland to S of Britain Allied to the dab and flounder (qv), but orange spotted, it may attain 8 10 b, measuring 30 in or more, but mostly marketed at half that size Unlike the turbot, its two eyes occupy the same trans verse line

Plaistow District of London Between Canning Town and West Ham, Botween 41 m from London (Fenchurch Street), on the LNE and LMS Riys, it houses a number of factories, chemical works and engineering establishments Pop 35,900

Plane Genus of large trees (Platanus), constituting an order allied to the walnut, natives of N temperate regions They have large deciduous palm-shaped leaves and smooth, whitish bark, scaling off annually in patches, the fruits being small, long stalked spiky balls The oriental plane was introduced into Tudor England The western plane or buttonwood, N America's tallest deciduous forest tree reached Stuart England The London Plane, P accrifolia, is a hybridised delivative from both its timber is valued for cabinet work

Plane Term used in geometry for any per ectly level surface—that is, one upon which a straight line joining any two points will lie entirely on the surface. In aeronautics the term is applied to the plane or curved structures acting as wings and tail of an aeroplane for purposes of flight.

Planet Name given to one of the bodies round the sun in elliptical orbits. The four planets, Mercury, Venus, Earth and Mars are nearest to the sun and are often termed the inner planets. Beyond Mars lies the belt of Asteroids and the outer planets, Jupiter, Saturn Uranus and Neptune Uranus, Tarments known as Herschild was discovered. Saturn Cranus and Neptune Dranus, formenly known as Herschel, was discovered in 1781, and certain irregulatities in this planet's movements led to the further discovery of Neptune in 1846. The presence of a still more remote planet was suspected, and in Jan, 1930, its existence was confirmed, and to this outermost member of the Solar System the name Pluto was given

Planimeter instrument for measur-ing the area of a plane figure and usually consisting of two binged rods, the end of one of which is fixed, while the end of the other moves freely, tracing the boundaries of the figure to be measured. The difference of the figure to be measured. The difference between the readings of a small graduated wheel attached to the tracing arm before and after the tracing gives a number proportional

to the area

Plankton Biological name for the floating animal and plant life of the sea, also of rivers and lakes Those organisms are for the most part microscopic, and their immense numbers in many instances give a green or reddish tint to the water The plankton forms the food of many fishes and other marine animals As part of the food of the cod it is the origin of the vitamins A and D contained in its liver

for Plant General term for vegetable organisms from the simplest unicelvegetable lular type to the highly complex herb or tree In structure and form there is the greatest diversity, for while in the lower types the plant body is but little differentiated, in the flowering plants there is a well-defined root, stem, leaf and flower Plants feed upon simple inorganic materials and are essentially passive and anabolic organisms. Reproduction ranges from simple fission in bacteria and budding in yeast to the complex sexual process seen in the floral mechanism of the higher plants

Plantagenet Surname applied to the Angovin Lings of England The house included Honry II Richard I, John, Honry III, Edward I, Edward II, Edward III, Edward III, Edward III, Edward III, Edward III, Edward IV, Edward V and Richard III. At the death of Richard II the house of Plantagenet became divided into the two branches of Lancaster and Verley of the two branches of Lancaster and York, so that the line may be regarded as ending with the death of Richard I in 1390 The name is derived from the planta genista, or broom plant, the badge of the house

Plantain Name denoting various broad leaved plants Plantago is a genus of herbs, mostly noxious yeeds with inconspicuous flowers, distributed over all temperate regions. There are five British species, the fruit-spikes of the waybread or greater plantain being a favourite bird food, the lamb's tongue is a lawn pest. Water allouted the manufacture of the waybread or greater plantain being a favourite bird food, the lamb's tongue is a lawn pest. plantain, Alisma plantago, grows in marshland Sce Banana

Plantain Lily Genus of perennial herbs of the lily order, (Funkia) of Japanese origin The roots form a bundle of tubers from which emerge large oval or heart shaped leaves parallel veined, sometimes white striped. The flower-stems bear spikes of white or lilec bell shaped flowers

Plassey Village of Bengal It is about 90 m N of Calcutta, and was the scene of a battle between the Nawab of Bengal, Suraj ud Dowlah and Clive, June 23, 1757
The Nawab's army consisted of 18,000 cayalry and 35,000 foot with 50 guns Clive s numerically weak forces included 1000 whites and 2100 sepoys with 10 guns The complete defeat of Suraj ud-Dowlah secured Bengal for the British

Plaster Cementing material used for Covering walls and other parts of buildings with a protective and binding layer For Internal walls, cellings, mouldings etc, plaster of Paris and various modifications, such as Parian and Keenes cements are used, the alm being to obtain a plaster whose setting is allow being to obtain a plaster whose setting is slow enough to be easily worked and which will take point quickly For external work Portland Coment, mixed with sharp, clean sand is used

as a covering for brickwork, etc The Plasterers' Company is one of the City of London Livery Companies

Plaster of Paris Form of cement composed of cal cined gypsum or sulphate of lime Plaster of cined gypsum or sulphate of time plants receives its name from the abundant deposits at Montmartre near Paris. The gypsum, when burnt at a moderate temperature vields up about three fourths of its combined water and when reduced to a fine powder, forms a cement which, on the addition of water to make a paste, rapidly sets or solidifies. It is used for casts and plastering

Plateau Term applied to a tableland or clevated area of more or less level surface Some are old plains of crosion that have been uplifted by earth movements, others have as their foundation an croded plain, submerged and covered with stratified sedi monts, followed by re-clevation, and termed a plateau of accumulation. In England the Pennine Chain is an example of a plateau with uprising peaks and deep river valleys

Platinum Metallic element, having the symbol Pt, atomic weight 195 23 and melting point 1775°C Platinum is a silvery white metal having great ductility and malleability, and is unaffected by moisture, it and ordinary acids to the symbol or the symbol. and malleability, and is unaffected by moisture, air and ordinary acids In the crude state platinum is found as a natural alloy with palladium, osmium, iridium and other rare metals in the form of small, flattened grains in alluvial deposits, chiefly in the Ural Mts, but also in Canada, South Africa and New South Wales It is used for making crucibles and chemical apparatus, parts of balances, electrical appliances and jewellery Its salts also are employed in many industrial processes

Plato Greek philosopher Born in Athens 427 B c, he had political ambittons but came under the influence of Socrates  $(q \ v)$ and about 387 founded the Academy, an in stitute for the study of philosophy, remaining in Athens except for two visits to Syracuse in 367 and 361 60 Perhaps the greatest of all philosophical writers, his works have come down to us in the form of dramatic dialogues in which the chief prosters is Secretar. down to us in the form of dramatic dialogues in which the chief speaker is Socrates, into whose mouth Plato put theories developed after the former's death Of these dialogues, thirty-five remain, the most important being the Gornas, the Prolagoras the Phaedo, the Symposium, the Laws and the Republic in which last Plato antedated much of the most modern political and sociological theory.

and sociological theory
Plato was the first philosopher to formulate satisfactorily the principles of ethics. His philosophy is definitely social, and according to him justice and the good can only be completely attained in the social sphere, in which alone the life of the individual finds its true expression. His philosophy was the source of that great body of thought which became known as Platonian and through the medium known as Platonism, and, through the medium of the neo platonic philosophers such as Plotinus (q v), profoundly influenced Christian

thought

Platoon Division of a company of infantry In the British Army there are four to a company of infantry The platoon is commanded by a 1st or 2nd lieutenant and numbers about 60 men. The name comes from the French peloton, small body of man. body of mon.

Platypus Generic name given in 1790 to the cgg laving water-mole of Australia and Tasmania It was changed in 1800 to ornithorhynchus (q v), but is populariy called "the duck billed platypus" Scc DUCKBILL.

Plautus Titus Macclus Roman comic poet Born about 251 Bo, he wrote plays while employed by a baker, and is white plays while employed by a baker, and is said to have been responsible for 130 comedies, of which 20 are extant. They are masterly adaptions from Greek originals, the action rapid, humour keen and shrewd and the characters lifelike. Among later writers indebted to Plautus must be mentioned Shakespeare, Mollère, Addison and Dryden He died 164 B C

PLEURISY

Playfair Sir Nigel British actor and He was born July 1.

1874, and after taking his degree at Oxford he became an actor and played with Benson, Tree and others As lessee and manager of the Lyric Theatre, Hammersmith, he has produced a number of successful plays, notably The Beggar's Opera He wrote (1925) The Story of the Lyric Theatre, Riverside Nights (with A P Herbort), Hammersmith Holy, 1930.

Knighted in 1928, he died on Aug 19, 1934

Pleasley Village of Derbyshire and Nottlinghamishire, 3 m from Mansfield, on the River Meden It is served by the LMS and LNE Rivs There are suk and cotton mills and coal mines in the vicinity. Pop 2510

Pop 2510

Plebeian In ancient Rome a member of the plebs of common people. Originally the inferior citizens descended from subject peoples transplanted to Rome and including freed and fugitive slaves, resident aliens and others, the plebelats had none of the privileges of the patricians, the descendants of the original settlers and the ruling order. In 494 B c they secured the right to elect tribunes When the decemvirate was set up in 451 three plebolans became decemvirs, and later plebelans gained access to the higher offices, including that of consul (q v)

Plebiscite In ancient Rome, a law session of consul (qv) Plebiscite passed by the plebelans assembled in comuta, tributa or tribes. In present-day usage a vote of the whole electorate taken on a distinct issue. The Treaty of Versailles (1919) provided that a plebiseite was to be taken in areas of mixed population to decide frontier questions, nationality, etc.

Pleiades Conspicuous group of stars in the shoulder of the con-stellation of Taurus, the Bull The pleiades stellation of Taurus, the Bull The pleiades form an open cluster of over 2000 stars, of which six or seven are easily visible to the naked eve They are named after the seven daughters of Atlas and Pleione who, in Greek mythology, were placed among the stars

Pleistocene Geologists' name for the Quaternary or Post Tertiary system of sedimentary rocks resting on the Pliocene (qv) and succeeded by the Recent, those now under deposition Synchronising with the Glacial or Ice Age, they contain the palaeolithic or older stone-age remains of primeval man, the neolithic being post-glacial

Pleonaste Variety of the gemstone, spinel It is an aluminate of magnesia, and contains iron in addition It occurs as dark-green or black octahedral crystals of a higher specific gravity than

crystals of a higher specific gravity than typical spinel and as a constituent of garnet-bearing gnelses and other metamorphic rocks. It is also called ceylonite

Plesiosaurus Genus of extinct paddictosaurus Genus of extinct paddictosali in Mesozoic rocks, especially Upper Triassic and Liassic. Small headed, large-mouthed, with slender-pointed teeth adapted for fish-catching they were long-necked, with the latest short head to and tails. Same means relatively short bodies and tails Some members of the family were 45 ft. long Their four approximately equal paddles facilitated life in the open sea

Pleurisy Inflammation of the pleura of scrous membrane investing the lung and lining the chest Occurring oftener in an acute than a chronic form it may be dry or fibrinous, the result of exposure or an

accompaniment of other lung-diseases There i are pains in the side dry cough and friction sounds like creaking leather, it usually yields to careful treatment. Sometimes there is effusion of fluid into the pleural cavity, which may necessitate withdrawal by an aspirator

Plimsoll Samuel British politician Born at Bristol, Feb 10, 1824, he was a clerk at Sheffield and came to London in 1853, commencing business as a coal merchant. In 1868 he became M.P for Derby and en deavoured to end the evils caused by the use of overladen and unseaworthy ships The Merchant Shipping Act, in 1876, made com pulsory the affixing to a British-owned mer chant vessel of a maximum load line, the Plimsoll Mark and gave power to the authorities to detain a ship which did not comply The mark is a circle crossed by a horizontal line Plimsoll resigned his seat in 1880 and died June 3 1898

Plinth Architectural term for the projecting base of a wall, or the square base of a column In mediaeval buildings the plinth may be simply chamfered or in others richly moulded, and in buildings of the percendicular style in England it is panelled to give verticality In later architecture it is usually plain

Roman writer His full name was Gaius Plinius Secundus, and he is known as the elder to distinguish him from his nephew (see below) Born c & D 23, after serving in Germany he was made procurator in serving in Germany he was made procurator in Spain (67). He was appointed commander of the fleet at Misenum by Vespasian, and suc cumbed, in A.D. 79, to the suffocating vapours from the eruption of Vesuvins which burled Herculaneum and Pompeli. An indefatigable student, his Natural History deals also with such arts as sculpture, painting etc. He is student, his Natural History deals also with such arts as sculpture, painting etc. He is said to have read 2000 works in compiling this treatise of 37 books Pliny the Younger was a Roman writer His full name was Gains Plinius Caecilus

Secundus Born in A D 62 he was nephew and adopted son of Pliny the Elder, and in A D 80 began to practise as a pleader in the courts He became in turn senator, military tribune, quaestor, tribune and practor Trajan made him consul and later governor of Bithynia. He wrote a panegyric on the Emperor Trajan and also ten books of Letters, one containing his official correspondence with Trajan He

died about AD 113

Pliocene Geologists' name for the uppermost formations of the Tertiary system of sedimentary rocks resting on the Miocene, and succeeded by the Pleis tocene  $(q \ v)$  Most developed in the Mediter ranean region and adjacent land northward, they occur in Britain mainly in the Coralline, Red, Norwich, Chillesford and Weybourne Crags and the Cromer Forest bed

Plotinus Founder of the Neo Platonic School of Philosophy He was born in Egypt, probably of Roman descent about the year A D 203, and studied Indian and Persian philosophy in the East. His theories are Platonic in their origin but they suggest (in contrast to those of Plato himself) rather a way of mystical escape from the concrete world, than a fulfilment of what is best in it. He died a D 270

Plough Agricultural implement used for turning over the soil thereby loosening and pulverising it, and exposing the new surface to the air in preparation for

sowing seed It is one of the oldest implements used for tillage, the carliest forms being of wood and simple in character. The modern plough consists of a beam to which is attached a coulter or iron knife blade for cutting the soll, a ploughshare with sharp point and projecting edge, a mould board for raising and turning over the soll and handles or stills The hand or animal driven plough is supplemented now by the steam and oil tractor ploughs for large areas

Plover Widely distributed family of wading birds British species include the golden plover, 11 in long with its blotched pear shaped eggs, 2 in long, laid four in a nest The Kentish, 6‡ in long, and ringed, 7‡ in long, also come to breed The grey plover, 12 in long, breeding in Siberia, is a common winter visitor in East Anglia. See Lapwing, Otster-Catcher Widely distributed

Plum Fruit of the cultivated plum tree Derived from one or more species of Prunus of the rose order, the main European varieties originated from the wild plum, P varieties originated from the wild plum, Parallel originated from the victoria, magnum bonum and greengage A Japanese species furnished not only Japanese and Californian but also S African varieties, which withstand transportation to London better than the European stock. N American species have also influenced the cultivated strains, which are grown as standard trees in orchards or trained to walls See Damson, Greengagr, PRUNE

Plumbago One of the alternative names for graphite, a form of impure carbon occurring as a soft black mineral and used for making pencils, polishes, lubricants, etc

Plumber One who works in lead especially in connection with fittings in buildings for the gas and water supply and also sanitary and sewage work. Usually plumbing is associated with general sanitary and domestic engineering, including the laying of lead roofing and guttering, the fitting of ventilating appliances baths and bath heating apparatus water settening plant. bath heating apparatus water softening plant, eto Instruction in the various branches is given at technical classes. The Plumbers' Company is one of the smaller livery companies of the city of London The Plumbers'

Plumer Herbert Charles Onslow, 1st Viscount. British field marshal Born Mar 13, 1857, he joined the army in 1876 saw service in the Sudan and S Africa, and from 1902-14 held various posts becoming Quartermaster General and member of the Army Council In 1916 he was given command of the 5th Army Corps, and, later, the 2nd Army In Nov 1917 he went to Italy in command of the British forces sent to that field, returning to British forces sont to that field, returning to the western front and the 2nd Army again after five months From 1919 25 he was Governor of Maita, and from 1925 1928 High Com-missioner for Transfordanla, retiring in Aug Knighted, 1906, he was made a field marshal and a peer in 1919, taking the title of Baron Plumer of Messines In 1929 he was made a viscount. He died July 16, 1932

Plumstead District of London, 104 m from Charing Cross (S Rly) 1t forms part of the borough of Woolwich, Kent Pop 25 800

Plunkett Sir Horace Curzon Irish Youngest son of 16th Baron Dunsany, he was born Oct. 24,

1864 He represented Co Dublin S in Parliament, 1892-1900, founded the Irish Agricultural Organisation Society and established the Agricultural Co operative Movement From 1899-1907 he was Vice-President of the Dept of Agriculture for Ireland In 1917 he was shosen President of the Irish Convention He

lied Mar 26, 1932

Plural Voting System allowing a person to cast more than one vote in an election, e.g., in virtue of different qualifications, residential and business For parliamentary elections in Gt. Britain a person may not have more than two votes, and these must be given in two constituencies

Plutarch Greek biographer He was born about AD 48, at Chaeroned in Boetia, and after travels in Greece and Egypt opened a school at Rome He is notable for his parallel biographics of eminent Greeks and Romans Disposed in pairs, the characters of the subjects being compared, this collection has great historical value His

this collection has great historical value His other writings are grouped under the title Opera Moralia He died c A.D 122

Pluto Greek God of the lower regions Pluto is the Roman name, the Greek being Hades Brother of Jupiter and Neptune, he was the ruler of the infernal regions, and had dominion over the products of the earth He carried off Proscrpine (Persephone) and made her his queen sophone) and made her his queen

The discovery of a new planet, later named Pluto, was announced by the Lowell Observatory, Flagstaff, Arizona, in March, 1930

Plymouth City and seaport of Devon On Plymouth Sound, at the mouth of the River Plym, it is 247 m from London on the G W and S Rlvs A port of departure for shipping going to America, Australia, S Africa and the East, Plymouth is an important mail station and the waters of Catteriota Will Bar. System Pool and the of Cattewater, Mill Bay, Sutton Pool and the Hamoazo accommodate many vessels. Here too is an extensive fishing industry. On Plymouth Hoo, overlooking the Sound are the Citadel, a statue of Drake, and a monument to Smeaton, actually part of the old Eddy-stone lighthouse, which he built Pop (1931) 208,166

The city, which includes the towns of Stonehouse and Devenport  $(q \ r)$ , gives its name to an earldom Robert Grey Windsor-Clive (d 1923) was made earl in 1905, but the title was borne from 1680-1843 by another family, that of Hickman Windsor The present earl, Ivor Miles Windsor-Clive was born in 1889 His helr bears the title Viscount Windsor Plymouth Chiralis a bard naste biscuit ware

Plymouth China is a hard paste biscuit ware, and was made by Wm Cooksworthy (1768-74)

Plymouth Scaport and town of Massa-chusetts, USA It is 37 m by rall SE of Boston, on a branch of Massa-chusetts Bay Here the Pilgrim Lathers landed from the Mayfoucer in 1620 The landing place is marked by a granite rock over which is a granite canopy. A monument to the pilgrims is on a hill above. Pop. 13,000.

Plymouth Brethren Evangelical Christian

community formed by John Nelson Darby at Plymouth in 1830 Abandoning an Anglicun community formed by John Nelson Darby at captured by her latter and was taken Plymouth in 1830 Abandoning an Anglician curacy, he associated in Dublin with certain persons calling themselves "Brethren," who met regularly for public worship Removing to Plymouth he established there and in other to Plymouth he established there and in other places, including Switzerland, similar self-contained communities, who commemorate the captured by her latter and brought to Jamestown Christian and married John and died at Gravesend, 1617

Pocklington Urban district and places, including Switzerland, similar self-contained communities, who commemorate the curacy, he associated in Dublin with certain persons calling themselves "Breturen," who met regularly for public worship Removing to Plymouth he established there and in other

Lord's Supper every Sunday, while rejecting all ecclesiastical organisation and ordained ministry They number about 80,000 in Great Britain, besides others in Europe, Canada and USA

Plympton Market town of Devon. It the G W Rlv, and stands on the River Plym Sir Joshua Reynolds was born here

Plynlymmon Welsh mountain It is loes, on the borders of Montgomervshire and Cardiganshire, and is 2465 ft in height Here are the sources of the Wvo and Severn, and of the Llvinant and the Rheidol

Plywood Name given to thin boards made of layers of wood, usually three in number, and cemented or glued together under pressure, the grain of the middle layer being placed at right angles to that of the outer layers Plywood is light and has the advantage of being less liable to warp or split than ordinary boards It is used in aeroplane construction and box manufacture, also for furniture and as panels for walls and ceilings

Pneumatic Appliances
Type of appliances in which the power is supplied by compressed air They are used for various percussive purposes such as harmors and drills, also for working hoists, and in modern paint work as a spraving device Pneumatic rock drills are used in mining operations and are provided with devices for turning the drill around as it works and for adapting the blows to the increasing depth of the hole Pointing Pointing of large surfaces, especially with cellulose paints, is effectively achieved with a pneumatic apparatus, delivering the paint in the form of an evenly distributed fine spray

Pneumonia Inflammation of the sub-forms occur Acute lobar or croupous pneumonia, commonly called congestion of the lungs, is usually caused by a specific micro-organism, Diplococcus pneumontae Congestion of the blood-vessels is followed by a solidified condition resembling liver tissue, called red and grey hepatization, simulating red and grey granite respectively Generally the airvesicles, by eliminating their morbid contents, quickly resume their normal action Lobular or diffused through broncho pneumonia, smaller tubes and vesicles, sometimes chronic, is fatal to the young and aged Chronic inter-stitial pneumonia or irrhosis of the lung closely resembles the symptoms of tuberculosis Permisis

Po Longest river in Italy It rises in Monte Vigo as a mountain torrent, and flows into the Adriatic, 300 m away It receives all It receives all the waters flowing northwards from the Apennines and southwards from the Alps and Lake Garda

Pocahontas Daughter of an American Indian chief, Powhattan, who was the ruler of the tribes of Virginin Born about 1595 she is said to have interceded for the life of Capt. John Smith, when he was captured by her father Later she was taken

Pop (1931) 2640

Pod Dry seed vessel developed from a single carpel which, when the seeds ripen, usually splits along both edges Technically a legume, it characterises leguminous plants, c.g, pea, furze The name popularly denotes also the elongated silique or shortened silicle developed from two united carpels with transverse septum characterising cruciferous plants, eg, cabbage, honesty

Poe Edgar Allan American author and poet He was born at Boston on Jan. 19, 1800 and was adopted at an early age by 19, 1809 and was adopted at an early age by John Allan He published Tamerlane (poems) in 1827 He wrote for Baltimore journals and later became editor of the Southern Literary Messenger, going to live in Richmond Other volumes of poems appeared in 1829 and 1831 With The MS Found in a Bottle (1833) he won a prize given by the Baltimore Saturday Visitor Poe excelled in creating an atmosphere of mystery and horner as in such tales as of mystery and horror, as in such tales as The Pit and the Pendulum, The Masque of the Red Death, The Murders in the Rue Morgue and The Fall of the House of Usher Among his best-known poems are The Raven, The Bells, and Annabel Lee He died on Oct. 7, 1849

Poet Laureate Office of crowned poet, or poet at the Court. The Greeks and Omans used to crown poets with laurel, an Petrarch was thus crowned at Rome in 41 Though Chaucer and later Skelton styled themselves poet laureate the office really commenced with the giving of a pension of 100 marks to Ben Jon son by James I. Charles I, made the pension £100 and added a tierce of Canary When Southey was made laureate a money payment was made in lieu of the wine In modern times the laureateship has been held by Wordsworth, Tennyson, Robert Bridges and John Masefield

Poetry Form of literary expression, clothed in emotional rhythmical and often symbolic language Rhyme is not essential, for blank verse has been the vehicle of much of the grandest poetry in all languages Poetic form varies with fashion. It may be alliteration, assonance, rhymed couplets or the irregular type known as rers libre, but all true poetry should appeal both to the mind and the ear Rules governing motre, accent and the ear Rules governing metre, accent and similar details come under the heading See LYRIC, ODE of prosody

Term used in English newspaper Pogrom Term used in English newspaper upon the Jews in Russia instigated by the authorities (1905 06) It has since been applied to any similar organised attacks on Jewish communities It is derived from a Russian word meaning "devastation"

Pollu Name given to a French private soldier The word means "hairy' and, originally applied to a recruit was used commonly during the Great War for soldiers in the trenches when many were obliged to let their beards grow The term thus came into general use to denote a common soldier in the French army

Poincaré Raymond Nicolas Landry French statesman Born Aug 20, 1860, he became a barrister He entered the Chamber of Deputies, 1887, was Finance Minister, 1894 95 and 1906, and became Premier and Minister of Foreign Affairs in 1912, resigning on his election as President of

L.N.E. Rly The industries include the making the Republic, Jan. 17, 1913. His term of of agricultural implements, milling and browing office ended in 1920. In Jan., 1922, he became Premier in succession to Briand, holding this post and also that of Foreign Minister until the election of May, 1924, when he was defeated and resigned He formed a ministry again in 1926, and was also Finance Minister at the He brought about the stabilisation of time the franc (June, 1928) Poincaré resigned the premiership, July, 1929 He died in 1934 Point In mediaeval music, a dot affecting note duration Known as points of augmentation division perfection and altera tion, points fulfilled the functions of modern dots and barlines Point also denoted a dots and barlines Point also denoted a mediaeval note and also a place of dramatic or contrapuntal interest in a composition Point also denoted a

An organ-point is a succession of harmonies progressing over a pedal bass note, also the chord introducing a concerto's cadenza.

Pointer Breed of sporting dog Introduced from 17th century Spain

Pointer duced from 17th century Spain, and improved by foxhound and greyhound crossing, the English pointer is close haired, 24 in high, and usually parti-coloured such as liver and white but sometimes all liver-coloured or black. It hunts by hody scent, and when it seemts game stands stiffly with muzzle and tail outstretched, usually with one foot raised

Point-to-Point Type of steeplechase over a course of three or four miles. Originally these races were run over a straight course, te, from one point to another across country Poison Substance which tends to destroy Poison life or impair life when intro duced into the body either through the mouth and stomach or by being absorbed into the blood Poisons may be classified as corresive, irritant and neurotic, the first named being the mineral acids, alkalies, and saits such as corro sive sublimate The irritant poisons cause in-flammation of the parts and include metallic substances such as arsenic, also various animal and vegetable poisons. Neurotic poisons affect the nervous system and include the narcottes such as morphia, also strychnine, belladonna, alcohol eto Many of these poisons are scheduled under the Poisons Acts and their sale regulated in various ways
TREATMENT FOR POISONING

cases of poisoning immediate action is absolutely necessary, and is in many cases the only hope of saving life A doctor must be called at once, but until be comes the amateur can follow certain broad lines of conduct If the poisoning is from food, or from poisonous plants or from prussic acid, encourage the patient to be sick. A tablespoonful of mustard or 2 tablespoonfuls A tablespoonful of mustard or 2 tablespoonfuls of salt in a glass of warm water is a good emetic. In the case of prussic acid, give a very strong mustard emetic at once After vomiting, give strong tea or black coffee. If the lips and mouth of the patient are stained or burned (denoting a corrosive poison) it is harmful to give an emetic Strong tea is the safert entitlets.

tea is the safest antidote

If sleepy always keep the patient awake, if necessary, by walking him about or slapping his face and chest If he has collapsed he must be kept warm, and give him a teaspoonful of sal volatile in a little water if he can swallow If breathing ceases, artificial respiration must be adopted (see under Drowning)

If the throat is swellen so that the patient cannot breathe apply hot cloths, and as soon as he can swallow give drinks of cold tea or

If the poison is known to be an acid such as 1 nitric, oxalic, or sulphuric, salts of lemon, arbolic, etc., rinse the mouth out with an alkali and give drinks of it. Lime-water or magnesia is good, or, failing these, chalk and water, whiting and water, or even plaster from the ceiling

If the poison is an alkalı such as ammonia or caustic soda, use an acid proparation (vinegar

or lemon juice and water, equal parts)

Poitiers Town of W France. Founded in pro-Roman times, it fell to the Franks in 507, when Clovis defeated the Visigoths under Alaric II Near here Charles Martel defeated the Mohammedans in 732 After the Battle of Poltiers in 1356 (see below) the town became an English possession till rethe town became an English possession till re-taken in 1373 The town has some Roman remains, a fine cathedral, containing some stained glass of the 12th and 13th centuries, the church of S Jean, the oldest Christian monument in the country, and other very ancient churches It has a university Its trade, apart from wine, is mainly agricultural, and its industries include printing and the manufacture of brushes, hoisery, etc

Poitiers Battle of Fought Sept. Black Prince and the French under King John II The English forces numbered about 8000 and the French 15,000 The battle resulted in a decisive victory for the Black Prince, the French King being taken prisoner and brought

captive to England

Poker Card game played for money from France via New Orleans about 1830, it became the now prevalent draw poker, using 52 cards, about 1860 Each player, 2 to 7, received five cards, the game goes to the best band hand

Poker-Work Form of decorative art, effected by burning a design on wood, leather, velvet and other materials with a heated metallic point First accomplished with a red-hot "poker," eg, the pyrographic drawings on lime-tree and other woods by John Carach (1751-1823) it is other woods by John Cranch (1751-1823), it is now done with needles heated in spirit lamps

Pola

Town and scaport of Italy It is on the peninsula of Istria, 56 m S of

Trieste There are two harbours, naval and commercial Prior to the fall of the empire, Pola was the chief naval station of Austria-Hungary and an Austrian fleat was blesteded Hungary, and an Austrian fleet was blockaded here by the Italians, who occupied the town late in 1918 Together with Istria, it became a There is a cathedral (15th century), a castle (Venetian), and the Roman Amphitheatre and Temple of Augustus Pop (1931) 55,559

Poland Republic of Eastern Europe, created under the Treaty of Versailles 1919 It has an area of about 149,960 sq m and a pon of 31,927,773 (1931) Bounded by the Baltic, East Prussia Lithuania and Latvia on the N, White Russia and Ukraine on the E, it joins Rumania and Czecho-lovakia on the S and Germany on the W It has a port at Gdynia and also uses Memel and Danzig The capital is Warsaw There are extensive forests, and important mireral deposits including coal, petroleum iron and zinc There are large salt mines, and potash is also found Potash is also found

HISTORY Until 1772 Poland was an independent state, dated back to the 6th century by tradition, and with a recorded history

commencing with Mieczylaus L (964) The State had a turbulent history, being joined at different times with Hungary and Lithuania Invasions by Wallachians, Turks and Russians occurred, and Charles Augustus of Sweden seized Poland in 1655 Sobieski (elected king 1674) is famous for his relief of Vienna, besieged by the Turks (1683). In the 18th century the State decayed A confederation of patriots made a stand against Russia's encroachments mane a sunna against Russia's encroachments in 1763. Four years later came the first partition, territory being annexed by Austria, Russia and Prussia, and later divisions (1793-95) took the remaining parts of Poland, Stanislaus, the last king, abdicating at Grodno in 1795. Napoleon set up a short lived duchy of Warsaw, and there was another division of territory in 1814. territory in 1814.

During the Great War, Poland was seized by Austria-German forces and independence proclaimed in 1916 Pilsudski, who had carlier invaded Russia with a Polish legion was a member of the Council of State A Republic was proclaimed at Warsaw in 1918, and its independence confirmed by the Peace Treaty of 1919 Pilsudski became first president (resigning 1922) and Paderewski premier Threatened by Russian invasion in 1921, the Soviet armies were repulsed and a favourable peace secured Pilsudski died in May, 1945 Earlier in the year Poland's very democratic constitution was replaced by another, giving rather more power to the president

Polarisation of Light radiant Condition of Polarisation of Light Condition of radiant energy, most noticeable in light, in which some of its properties are different in different directions Light may be polarised by reflection, at an angle which differs for different substances, or transmission, as through most crystals Light thus treated will be reflected or transmitted most easily a second time for certain positions of the reflector or certain and not not all for of the reflector or crystal, and not at all for positions at right angles to these. The plane of polarisation is rotated by passage of the polarised light through quartz, and by a magnetic field, this effect being also used to distinguish between certain sugars in solution.

Polarisation in a voltaic cell denotes the collection of gas on the surface of the negative electrode, diminishing the supply of current

Polariscope Optical instrument used for showing the effect of various substances upon polarised light, and generally used as an attachment to the microscope for the study of the characters of thin sections of rocks and minerals. Its essential parts are the analyser and polariser, each consisting of a prism of Iceland spar bisected longitudinally in a plane through its obtains analyse and recemented together to Optical instrument used obtuse angles and recemented together to form a "Nicol prism" The analyser is inserted above the object glass and the polariser beneath the microscope stage

Polar Regions Term applied to
regions which

surround the geographical poles and lie within the Arctic and Antarctic circles, 231° from the poles In these areas sunlight or darkness extend over 24 hours at a time. They are characterised by extreme cold and the provalence of ice over both sea and land The northern ice cap forms a plain at sea level over the Arctic Ocean except over the land surface The southern ice cap covers an elevated land area See Antarctic, Arctic

In geography a term applied to the ends of the earth's axis, Pole

the surface around the North Pole appearing to an imaginary observer above it to rotate anti-clockwise, while at the South Pole the direction is clockwise. The magnetic poles are the ends of the earth's axis regarded as a great magnet, and lie near the poles of rotation

Pole In engineering a term applied to having the property of polarity or two-ended ness One of these, the North Pole, is north seeking, while the other, the South Pole, is south seeking, and the law of magnetic attrac tion is that unlike poles attract, like poles repol See Magnerio Poles

English Cardinal and Reginald Pole Heginald English Cardinal and in 1500 at Stourton Castle, Staffs, he went to Oxford, and after entering the Church, spent some years in Italy In England again, he opposed Henry VIII's divorce from Catherine to Aragon, and in 1532 left the country going to Padua On the accession of Mary he was appointed again. Pole appointed papal legate, coming to England in 1554 Pole was made Archbishop of Canterbury in 1556 In 1557 he was recalled and charged with heresy, but died Nov 17, 1558

Polecat Carnivorous mammal of the weasel family (Putorius putorius or P foctidus), native of Europe and found in Great Britain. A pouch under the tail contains Great Britain A pouch under the tail contains a fetid smelling yellowish substance It is 18 in long, with 5 in bushy tail, sharp nosed with small rounded ears and dark brown pelage, white marked round the head It usually breeds in rabbit-burrows Furriers call the fur fitch or fitchet.

Pole Star Nearest conspicuous star to the N pole in the eky It is the 2nd magnitude star alpha in the "Little Bear" constellation. The hindmost wheels of Charles's Wain, the alpha and beta of the "Great Bear," are the pointers, a line through them prolonged 41 times northwards indicates its whereabouts 11° from the true

Polesworth Village of Warwickshire, on the LMS Rly It is 4 m from Tamworth, on the River Anker It is the centre of a collier, district, and there are also quarries Pop 6280

Police Non military force appointed to

FOIICE maintain law and order In England, before the passing of Peel's Police Act of 1829, there was no organised body Watchmon in the larger towns, and parish constables in rural districts were the sole persons charged with the duty of preventing crime and keeping order Peel s measure applied only to the metropolitan area, but eventually similar bodies were formed in the towns and counties, and an Act of 1872 restricted the appointment of parish constables by the justices

The Metropolitan Police are controlled by the Home Secretary and he has also certain powers over the borough and county police which are otherwise under the control of their respective councils His department inspects them and exchequer grants are made towards the cost In 1932 it was decided to take steps to amalgamate some of the smaller police forces with the larger ones The City of London Police is governed by the Court of Common

Police Court Court of summary juris London London they are presided over by a stipendlary (paid) magistrate, as in certain other towns Generally

however, it is Justices of the Peace (unpaid) who act as judges Justices are appointed by the crown on the advice of the Lord Chancellor, stipendiaries on the petition of a municipal borough council to the Home Secretary See MAGISTRATE

Political Economy Science of the and distribution of wealth See ECONOMICS

Polka Round dance of Bohemian origin Introduced about 1840 it had a great vogue for some fifty or sixty years. The music is in two four time

Poll Term denoting the votes at an election Term denoting the voting or taking of It is applied also to the register of those entitled to vote The place where the votes are recorded is called a polling booth At company meetings (e g for the election of directors) a poll is taken the shareholders having votes proportional to the number of shares held The word is old English for head See Poll Tax

Pollack Soft finned marine food fish of the cod genus (Gadus pollachius) Akin to the coal fish but without barbel, greenish with yellow markings, it is taken in the Channel and on Scottish and Irish coasts up to 25 lb It is found throughout the N Atlantic.

Pollen Fine dust, generally yellowish produced in the anthers of flowering plants When mature it comprises soparate grains of definite size and shape, usually single celled, and often ornamented Each grain contains a male element whose union with the female element in an ovule originates the embryo constituting the seed

Pollination Process of conveying pollen grains to the stigma of a flower, where by penetrating to the ovulcs in the ovary they effect their fertilisation Self fertilisation occurs when a flower's pollen reaches its own stigma Cross fertilisation, essential for one sexed flowers, occurs when pollen reaches the stigma of another flower of the same plant or the flower of another plant of the same species. The transporting agency is usually wind or an insect, humming The transporting birds and snails also serve

Pollokshaws Dietrict of Glasgow, with which it was in corporated in 1912 It is an industrial district with iron foundries cotton mills, etc

Poll Tax Capitation tax levied on a poll tax was paid by resident allens and others The English Parliament of 1380, held at Northampton, imposed a poil tax, levied on all persons above the age of 15 It was the collection of this which led to Wat Tyler's rebellion of 1381 Charles II imposed a capital tion tax, all subjects being assessed by rank

Pollux In Greek mythology the twin brother of Castor and a son of Zeus He was skilled in boxing. The name is Polo Ball game played on horseback long handled mallets being used Of

Persian origin the game has long been played in Eastern countries In India it became popular among English officers and residents, popular among mighen officers and residence, and was brought to England by the former, a club being formed in London, 1872 The game is played on turf the ground being 300 yd by 160 yd The goals are 250 yd apart, the posts (24 ft. apart) at least 10 ft high The ball must not exceed 3½ in in diameter and 5½ oz in weight Trained nonies are used The in weight Trained ponies are used governing body is the Hurlingham Club

Polo Marco Italian traveller He was born at Venice, about 1254 His father was a merchant, and in 1271 Marco accompanied him on a journey to the court of Kublai, and reached Shang tu in 1275 Marco was given a governorship by the Khan and sent on missions to India and China In 1298 Marco was taken prisoner by the Genoese During a captivity lasting until 1299 he compiled an account of his lasting until 1299 he compiled an account of his travels He became a member of the Grand Council of Venice and died Jan 9, 1324

Polonaise (1) Stately ceremonial dance, usually in ‡ time, dating from Henry of Anjou's election to the Polish throne in 1573 Its rhythm was employed by Chopin and othors (2) Light-skirted bodice looped up at the sides, based upon Polish rattonal costume and warmed a various projects. national costume, and worn at various periods after 1770

Polperro Village of Cornwall, on the S coast, 13 m from Bodmin. It is a centre of the pilchard fishery

Poltergeist German word, "racketing posed agent of inexplicable noises in or about a house, cg, movement of furniture and breakages of crockery Widely distributed in time and space, often attributed to spiritistic agency, such phonomena are sometimes due to obvious trickery, sometimes clude all intelligible explanation. The lack of adequate motive, and the frequent association with the occurrences of a person of abnormal mental powers, puzzle inquirers See Cock-Lane

Polyandry Plurality of husbands Observable in mountainous, insular or desert regions, this social institution may occur in a fraternal form, a woman marrying two or more brothers, as among the Indian Todas and the agricultural population of Tibet

Polyanthus Hardy perennial herb of the primrose order Bearing an umbel of numerous flowers on a leafless stem, of the common primrose and the cowslip Gardeners produce innumerable strains with handsome tints, red, orange, bronze, blue and white, some are gold-laced See NARCISSUS

Polygamy Term properly denoting plurality of consorts, in contrast with monogamy It is commonly synonymous with polygynv, "many women," whose antithesis is polyandry, "many husbands" In Christian communities if one party contracts and the property of the contracts and the contracts contracts more than one marriage the first only is valid Polygamy is a recognised social institution in negro Africa, Australia and Melanesia It was regulated among the early Semites passed into Aryan India and was regulated by Meyeron polygam and the Meyeron polygam an tained by Mohammedanism camv ceased in 1890 Mormon poly-

Polygon Term used in plane geometry for a plane figure having more than four sides. A polygon is termed regular when it is both equilangular and equilateral Regular nolygons are named according to the number of sides from five to twelve, as follows pentagon, hexagon, heptagon, octagon nonagon, decargon undecargon undecargon undecargon undecargon undecargon undecargon undecargon and decargon undecargon un decagon, undecagon and duodecagon

or faces Those polyhedr- in which the planes are regular, equal and similar are known as the five regular or Platonic solids, and comprise the tetrahedron, cube, octahedron, dodecahedron and icosahedron

Polynesia Division of Oceania It and S of the equator, and is bounded E and W by long 135° It includes the more easterly Marquesas Islands, and those of the Society, Tubuai, Phoenix, Tokelau, Hervey and Phoenix, Tokelau, nerve, roups The three first-named are Manahiki groups The most important

Polynesians comprise the The so called aborigines of this region They are brown-skinned and well developed with an average height of 5 ft 8 in.

Polyphemus In Greek legend one of the Cyclops, a son of Neptune He is represented as a giant with a single eye Odysseus and his comrades sought shelter in his cave, and some were eaten by the monster Odysseus, however, gave him strong wine to drink, and when he fell into a deep sleep thereafter put out his eye and fled

Musical combination Polyphony each individually interesting The polyphonic school of music reached its climax in the 16th century music of Palestrina and his contemporaries, of whom William Byrd was the chief exponent in England

Polyporus Large widely-distributed genus of fungi Some of them form on living trees or timber hard and woody brackets, more or less semi-circular, some furnish native dresses, bread and tinder The purring agaric, P offi malis, formerly used in English pharmacy, is still used among N American Indians as a purgitive and styptic

Polypus Stalked tumour attached to the surface of a mucous membrane Usually pear shaped, it may be gelatinous, fibrous, vesicular or malignant, occurring in the nostrils, outer ears, larynx, rectum, bladder or uterus. If accessible from without it is readily removable by being twisted off

Polytechnic School for affording practical training in arts and sciences The first London institution of this kind, the Royal Polytechnic Institute, was opened in 1839, and continued, with a break of one year, 1859-60 until 1882 Its successor, the Regent St Polytechnic, was opened in 1882 by Quintin Hogg (died 1903) There are other London Polytechnics at Clerkenwell, Chelsea, Weekingh Buttersea and Lowisham Woolwich, Battersea and Lowisham

Polytheism Doctrine of a plurality of divine beings superior to man taking part in the government of the world Conceived as possessing animal, human or superhuman forms and attributes they represent a system of worship observable in ancient civilisations and in modern India Sec Mono-THFISM

Pomegranate Tree of the loosestrife order (Punica grana-tum) It has long been naturalised in the Mediterranean and other sub-tropical regions. The flowers usually scarlet, form an apple-like fruit containing many pulp covered seeds, with a golden red rind containing an astringent principle used in pharmacy, dyeing and tanning.

shores of the Baltic, and landward by the territories of Poland and Mccklenburg-Schwerin The islands of Rügen, Usedom and Wollin, off the coast, belong to Pomerania. The district is divided into the governments of Stettin, Stralsund and Koslin The principal river is the Oder, with its tributaries, and there are many small lakes Pop 1,878,781

Pomeranian Dog Breed of dog many the Spitz, akin to the Eskimo and other Arotic breeds, it is strongly built, scaling 20 ib and more, long haired with sharply pointed muzzle, upright and pointed ears and thick, bushy, back-ouried tail in Britain it usually occurs in a dwarfed form as the "pom," weighing approximately 5 lb. weighing approximately 5 lb

Pomona (or Mainland) Island of the Orknoys, Scotland the largest of the group It has an area of 150 ag m The two inlets of Scapa Flow and Kirkwall Bay divide the island into a larger (W) and a smaller (E) portion, the latter much indented The W part is chiefly moorland There are two towns, Stromness and Kirkwall Pop 14,000

Pompadour Jeanne Antoinette Poisson, Marquise de Favourito of Louis XV of France Born in Paris on Dec 29, 1721, Louis met her in 1745, and made her his mistress installing her at Verseiller. She had seed to the Versailles She had great influence over the king, and brought about the Alliance with Austria in the Seven Years' War because of her dislike for Frederick the Great She had considerable talents and was the centre of a circle including such writers and artists as Voltaire and Greuze She died on April 15, 1784

Pompe11 Ancient rulned city of Italv It 13 m SE of Naples In AD 63 a great part of the city was destroyed by an carthquake, and in AD 79 Pompeli was buried by a great cruption of the volcano During the intervening centuries the covering of ashes preserved the distributed by the terror of the covering of the covering of the covering of ashes preserved to the covering of the coveri the city, with its temples, streets, market places, baths and private houses. The caca vations of the rulns, which were begun in 1748, have greatly enriched our knowledge of ancient Roman life

Pompey Gnaeus. Roman triumvir He Pompey was born in 106 BC, disting the control of the control o 40 days, and his subsequent eastern campaign 60 63) resulted in a great extension of Roman sovereignty, but at its close the opposition of the Senate caused him to join the first Trium virate with Caesar and Crussus As Caesar's influence increased Pompey's declined and when the inevitable civil war broke out, Pompey was decisively defeated at Pharsalus (48) and afterwards murdered in Egypt.

Pondicherry City and seaport on the Coromandel coast, India, belonging to France It is 100 m S of Madras, and is the capital of French East India First colonised in 1674, the city was captured by Dutch and English, returning to France again in 1815 The area of the district is 115 sq m Pop (1931) 43 499

Pondweed Genus of waterweeds of the grassyrack order (Polamogelon) They are aquatic herbs with leaves submerged and translucent or floating

and opaque Of the numerous British species some have leaves 10 in across, others are threadlike The allied sweet scented Cape pondweed, Oponogeton, flowers freely during the winter in Great Britain

Pontefract Borough and market town of Yorkshire (WR.) It is 13 m. SE of Leeds and stands near the junction of the Aire and Calder on the LNE and LMS Rlys There is a ruined castle, in which Richard II was murdored

Pontre cakes Glegorical are made here

Pomfret cakes (liquorice) are made here Browing, iron founding, and tanning are the staple industries, and corn milling is carried on Pop (1931) 19,053

Pontypool Urban district and market town of Monmouthshire, on the GW Rly It is 8 m from Newport, with which town it is connected by a canal Coal mining is an extensive industry, the town boing on the S Wales coal measures Iron and tin plate are manufactured Pop (1931) 6788

Pontypridd Urban district and market town of Glamorganshire. It is on the River Taff, 12 m from Cardiff, on the GW Rly There are coal and from mines and brass and iron foundries. Tin plate is also manufactured Pop (1931) 42,737

Popur Small horse Technically the

Pony Small horse Technically those ranging from 13 hands high down wards are called ponies, those from 13 to 13 3 wards are called ponies, those from 13 to 13 5 hands high galloways, and those above them horses In popular usage the dividing line between ponies and horses is 14 hands on the N American prairies hardy mustangs, broken in by Indians, are called ponies The rough coated ponies bred in NW Europe, with luxuriant mane and forelock, are of the domesticated Collie stock which drow the war charlets of ancient Britan and have survived charlots of ancient Britain, and have survived in Iceland, Shotland, Wales, and the New Forest.

Poodle Breed of dog In France and Germany it is a sporting dog Learning tricks readily, it has become a circus dog Its coat, corded or curly, is clipped peculiarly on the hindquarters Toy poodles, scaling 4 5 lb are in demand

Poole Borough scaport and market town of Dorset It is on a peninsula in Poole Harbour, 18 m E of Dorchester and 5 m from Bournemouth, on the S Rly Pottery is made from clay quarried locally, and other industries include fishing and the manufacture of furm implements. There are manufacture of farm implements There are oyster beds In the harbour, which is 7 m long, is Branksea Island Pop (1931) 57,258

Poona Town of Bombay, India. The rivers Mula and Muta, 120 m from Bombay Pop (1931) 250 187

Poor Laws Local provision in Gt Indigent Britain for the indigent dates from an enactment of Elizabeth, 1601 which authorised the building of poor houses, appointment of overseers, and the raising of a rate by a tax on householders An important Act of 1834 reformed abuses and instituted near law commissioners. poor law commissioners A Poor Law Board was appointed in 1849 The duties were taken over in 1871 by local government boards, and in 1919 the Ministry of Health came into existence, and took over the administration of the poor laws Another change came about in 1930, when boards of guardians were abolished and their functions taken over by the county and county borough councils

POPE The Head of the Roman Cathelic Church The title is derived from word meaning father, and was used generally for bishops until 1073, when it became restricted to bishops of Rome A new pope is elected on the death of the reigning pontiff, by the College of Cardinals He has suprome authority in matters of faith, and his infallibility when speaking, ex cathedra, on matters of faith and morals was declared by a Vatican council in 1870 The same year witnessed the loss of the temporal power, the papal territories being absorbed in the Kingdom of Italy In 1929 temporal power over a small territory (the Vatican State) was regained when Italy recognised the pontiff's sovereignty See Papacy, Pius XI, Vatican

Pope Alexander Poet and satirist Born in London, May 21, 1688, he early showed poetic talent. His Essay on Criticism, 1711, a didactic poem, and The Rape of the Lock, satirising contemporary society, published a year later, brought him fame at the early age of 24, and brought the poet into contact with other literary men of the time including Addison and Swift Pope translated Homer, which was completed in 1725 The Essay on Man, 1733, which has been called Pope's finest work, deals with the philosophy of Bolingbroke (1678-1751) Pope died at Twickenham, May 30, 1744

Poperinghe Town of Belgium In midst of a hop-growing district, it stands on a tributary of the Yser, 6 m W of Ypres. It was taken by the Germans soon after the outbreak of the Great War, and occupied by the Allies in Oct. 1914 Bombarded at various times, it suffered during the German advance in April, 1918 The Church Institute, known as "Toe H" (Talbot House), was established here in 1915

Poplar Genus of trees of the willow order

Poplar Genus of trees of the willow order (Populus) Their alternate deciduous long stalked broadish leaves are usually preceded by the male and female flowers in separate catkins. The rapid growing soft wood timber is unimportant. Black, white, grey Lombardy and aspen, besides American balsam, poplar and cottonwood, are in cultivation.

Poplar and cottonwood, are in cultivation See Lowbard Poplar Metropolitan borough of London, on the north side of the Thames, sorved by the LNE Rly It is composed of the parishes of Poplar Bromley and Bow, and contains the Isle of Dogs, together with the Fand W India and Millwall docks From the Island Gardons (3 acres) the tunnel to Green.

E and W India and Millwall docks From the Island Gardens (3 acres) the tunnel to Greenwich starts It sends two members to Parliament Pop (1931) 155,083

Poplin Rep like fabric with silk warp and worsted welt, brought to England by 17th-century French refugees, and long specially associated with Ireland

Popocatepet1 Active volcane of Mexico (17,520 ft)
It is about 45 m SE of Mexico (17,520 ft)
the Valleys of Mexico and Puebla. The name is Aztec, and means "smoking mountain"
There was a small cruption in 1802

Poppy Large genus of herbs typical of the poppy order (Paparer) Their milky sap, with narcotic properties, is absent from the seeds, which yield an edible oil The most important economically is the annual opium poppy, naturalised in SE England The corn-poppy has yielded under cultivation double flowered forms such as the carnation,

picotee and ranunculus poppy, besides the single flowered white-centred Shirley strain Perennials include the handsome Oriental, the Arctic and the Iceland poppy

Population Term applied to the inhabitants of the world Since this number varies from time to time, it is almost impossible to arrive at an accurate estimate of the world's population, but the adoption of a periodic census in most of the civilised countries enables statisticians to compute population with far more accuracy than before

The census, however, is still hampered in countries like Africa and South America by the difficulty of collecting data concerning the inhabitants of the more remote regions. Furthermore, the causes which contribute to decline of population are often incalculable, such as wars, epidemics, sterility for various

decline of population are often incalculable, such as wars, epidemics, sterility for various biological reasons and to-day the increasing popularity of contraception.

The population of the whole world has been estimated at over 1,900,000,000, giving a density of over 33 per sq m. Among independent political units, Barbados, in the West Indies, with about 952 inhabitants per sq m, is the most densely populated of the continents, Europe has the greatest density, with Asia second, The other continents are comparatively sparsely populated

The other continents are comparatively sparsely populated

Two types of region favour density of population One is the moist, warm climate, where rice, the cheapest form of food, can be produced in large quantities, as in China and Japan The other is in temperate climates, on the great coal and mineral fields, where industry attracts population away from the rural districts, as in Western Europe and

Numerically, the largest populations are found in China, India and Africa The population of China has been put at over 460 000 000

lation of China has been put at over 450 000 000 but here, as in India and, especially, Africa, the difficulty of consus-taking renders the figures somewhat doubtful

As regards the sexes in Europe, females normally outnumber males, possibly because a man's life subjects him to greater strain and liability to accident. After a war this difference is very much accentuated In USA on the other hand, males outnumber females, owing to the fact that males migrate to a new country in larger numbers than females. India Egypt. in larger numbers than females India Egypt and Japan also show preponderance of males over females, due to the very high female death rate

Porcelain Fine pottery with a vitreous, transporent glaze of Chinese invention, and often called China, it reached high perfection during the Ming Dynasty, and was imported into Europe, where its composition was discovered and imitated at Melssen, near Dresden, 1713 European porcelain comprises soft-maste, and hope proveded. soft-paste, hard-paste and bone porcelain. See CHINAWARE

Porchester (Portchester) Village of served the S Rly, on Portsmouth Harbour It was the site of a Roman station For a long time Porchester was a naval station, but the sea receded and rendered the port useless. Here are remains of a Norman castle Pop 993

Porcupine Widespread family of rodents The common porcupine of S. Europe and N. Africa, Hystrax cristata, 27 in, long, has long, black-and-white

quills or spines along the back for defensive purposes The short quills of some American species are used by N American Indians for decorating buckshin garments and moccasins

Porcupine Grass (1) Spinifey, a coarso grass of various species of Triodia, growing in inner Australia The stiff, spiny leaves, 3 4 ft. high cause much suffering to man and beast (2) Stipa spartea, a grass abounding in some American prairies. The awas become fixed in sheeps' wool, gradually penetrating the skin and causing death

Pork Uncured flesh of swine as food The flesh of the pig is forbidden to Jows and Mohammedans, and is regarded by them as unclean Pork compares favourably with mutton and beef in its nutritive properties, though more difficult of digestion Comparing a medium fat animal of all three kinds, the a medium fat animal of all three kinds, the percentage composition in pork is—water, 55, dry matter, 45 in mutton—water 57%, dry matter 47, in beef—water, 54 dry matter, 47. The mineral content of pork—25%—compares with mutton 45 and beef, 55 The amount of fat in the three varieties of meat is 28%, 23 5%, and 22 5% respectively. In a fat pig the fat may be practically 50%, and the total dry matter, 61 5% Pork takes about 1½ times as long as beef for digestion. See Pig

Porlock Willage of Somerset, 6 m from Minehead It was once an important scaport, though the sea has since receded and the coast is now a mile or so away Porlock Hill, nearby, is a noted test hill for motorists Pop 970

Porphyrites Igneous rocks comprising large crystals, sometimes more or less broken, embedded in a ground nass of finer crystals. This is principally plagicelase, with augite, hornblende, biotite, etc. and larger crystals porphyritically doveloped Abundant as dikes and intrusive sheets in Lowland Scotland, Alpine Europe, N America and elsewhere, they are practically altered andesites

Porphyry Term used in geology for various igneous rocks, characterised by large, conspicuous crystals in the ground mass Many of these rocks are Term used in geology for used as ornamental stones, such as the famous red porphyry with red or white crystals in a red ground mass, found in Egypt

Porpoise Genus of cotacean mammals inhabiting northern seas (Phocacna) The common porpoise, P communis, 5 ft. long, abounds on British coasts It is killed mainly for its oils So-called porpoise hide and porpoise laces come from the white whale

Porson Richard English scholar Born Dec 25, 1759 at Cambridge, and educated at Eton and Cambridge, he was elected Professor of Greek in 1793, and became one of the leading Greek scholars of his day In 1806 he was appointed Librarian at the London Institution He published an edition of Acschylus and the Hecuba, Orestes Phoenissa and Micda of Euripides He died on Sept. 19, 1808 Instituted in his honour, the Porson Prize is an annual award to graduates of Cambridge for a translation of English pootry into Greek verse

Port Adelaide Scaport of Adelaide Australia It is 8 m from Adelaide On the Gulf of St Vincent, it has extensive docks and a good harbour

Industries include the smelting of copper, silver, etc

Portadown Town and urban district Portadown Co Arinagh, Northern Iroland On the River Bann 25 m from Belfast, on the GN Rly, it is a centre for linen manufacture, and has an extensive trade in agricultural produce Pop (1926) 11,780

Portage la Prairie City of Manitoba, Canada It is 56 m W of Winnipeg, CP Rly, and is a contre for the export of grain Pop (1931) 6597

Portarlington Town of the Irish Free River Barrow. 42 m from Dublin, on the G.S. Rlys. The town gives its name to an carldom, created in 1785. Since 1900 it has been held by Lionel A. H. S. Dawson Damer (b. 1883). The title of the eldest son is Viscourt Carlow. count Carlow

Port Arthur Canada It is at the head of Lake Superior on Thunder Ray, 990 m from Montreal It has extensive docks and a good harbour and handles large quantities of grain Other industries include lumbering, shipbuilding and smelting Pop 19,818

Port Arthur (or Lushun-Kou) Forti end of the Liao Tung Peninsula, Manchurla It is a terminus of the Siberian Rly and has a harbour that may be used throughout the year It was a Chinese naval station and was captured in 1894 by the Japanese Later it was leased to Russia, by whom it was ortified On the outbreak of the Russo Japanese War, Feb 6, 1904, Port Arthur was blockaded by the Japanese and fell many months later, Stoessel, the Russian commander, surrendering on Jan 2, 1905 The port was ceded to Japan on Jan 2, 1905 The port was ceded to Japan by the Treaty of Portsmouth, 1905 and ten years later the Chinese leased it to Japan for a further term of 99 years Pop 23,700

Port-au-Prince (or Port Republication)

The Capital of

town of Haiti W Indies It is the capital of the Republic on the Gulf of La Gonaive Here is a good harbour Tho principal exports are coffee, cacao, hides and logwood Pop 79,800

Portcullis Stout grating made of heavy crossed timbers with the lower projecting points tipped with iron A portcullis was suspended over the gateway of a castle as a means of defence and made to slide up and down in grooves at the side of the entrance

of the entrance

Port Elizabeth Seaport of Cape

Province, South

Africa On Algoa Bav, it is 664 m from Cape
Town and 712 m from Johannesburg by Rly,
and is traversed by the Baakens River The
harbour is open, though sheltered, and jettles
are used for landing goods Manufactures
include footwear and there are exports of wool,
ostrich feathers etc. Pop (Eur., 1931) 43 835

Port Erm It is on the land locked Port

Lrin Bay, 15 m by milway from Douglas

Lrin Bay, 15 m by railway from Douglas there are fisheries, and a marine biological station Pop 3200

Port Glasgow of Renfrewshire, on the Clyde 20 m below Glasgow, on the L M S Rly It is a centro of the shipbuilding industry and possesses iron foundries and manufactures, including rope and sailcloth Timber is imincluding rope and sailcloth ported Pop (1931) 19 580

PORT HARCOURT

Port Flarcourt Scaport of Nigeria a creek which enters the New Calabar and Bonny rivers, about 30 m from their mouth It is the terminus of the railway north which is to connect with the Iddo-Rano Riv Porthcawl Scaport and urban district of Glamorganshire, Wales It is 6 m W S W from Bridgond and 30 m from Cardiff, on the G W Rly Pop 6642 Port Hope Port and town of Ontario, town of Durham Co, on the north shore of lake Ontario, 63 m from Toronto There is a good harbour, and the town is served by three railways, besides its connection with the principal lake ports by steamer services In addition to manufacturing industries the town has an extensive distributing trade in local produce Pop 6250 Pop 6250

Pop 6250

Portishead Urban district and town of Somerset, on the Sovern the Sovern of Sydney, 9 m W N W of Bristol, on the GWR There is a large dock Pop 3908

Port Jackson Harbour of Sydney, 10 m arm of the harbour is formed by the Paramatta River On the shore is Sydney Portland Australia One is in Victoria, Normandy Co., on the W side of Portland Bay, 200 m W S W of Melbourne Another Portland is in S Australia, Adelaide Co The third is in New South Wales, Roxburgh Co., 12 m N W of Lithgow

Portland Name of two cities of the

Portland Name of two cities of the USA Portland, Maine, is on Casco Bay, 106 m NNE of Boston, in Cumberland Co It is the birthplace of the poet Longfellow There is a good harbour Pon (1930) 70 810 Portland, Oregon, is on the Williamette River, near its junction with the Columbia, 53 m from Salem It has large ports of flour, grain and lumber Pop 01,815

Portland Peninsula of Dorset called the Isle of Portland An arban district, it is about 5 m long and about I wide It is divided from the maining by the Chesil Bank and can be reached by steamer the Chesil Bank and can be reached by steamer from Wevmouth, or by the G W and S Joint Rly that runs along the peninsula from Malcombe Regis Portland Easton, Rodwell Chiswell and Castletown are on the island and at its southern extremity is Portland Bill with a lighthouse The chief buildings are the convict prison, a castle built in the 16th century and a more recent one called Pennsylvania Castle The chief industry is the quarrying of stone. Thomas Hardy called the pening vania Castle The chief industry is the quarrying of stone Thomas Hardy called the peninsula the Isle of Sungers Pop (1931) 12 018

Portland Roads is an artificial harbour Protected by an enormous breakwater It is used by the British Fleet which has stores and other establishments here

reed by the British Fleet which has stores and other establishments here Portland Duke of Fnglish (life created Portland in 1716 An earldom of Portland, held by the Weston family, 1633-88, hecame extinct, and was revived by William III for Hans William Bentinck in 1689 His son, Henry became 1st duke William Henry Cavendish Bentinck (1738-1809) assumed the edditional surname Cavendish in 1801, having married, in 1766, the daughter of the Duke of Devonshire Lord Lieutenant of Ireland, 1782, and Prime Minister, 1783, he was Home vecretary in Pitt's Government, 1794-1801, and again Prime Minister, 1807-09 William

John, 5th Duke (1800-79) was an eccentric who led the life of a recluse His nephew, William John Arthur (b 1857), the 6th duke, was Master of the Horse 1886-92 and again in 1895-1905 He is Lord-Lieutenant of Nottinghamshire The eldest son is entitled Marquess of Titchfield The chief family scat is Welbeck Abbey, Notts

Portland Cement Coment made by calcining in a kiln a mixture of chalk and finely-divided clay or the river mud of the Thames and Medway Liassic and carboniferous limestones and shales also are used along with local clays Portland cement is employed extensively for making concrete and for external plastering

Port Louis (or Isle of France) Sea-Island of Mauritius It is on the NW coast, at the head of a bay The principal exports are

at the head of a bay The principal exports are sugar and aloe fibre Pop 54,460

Portmadoc Urban district, scaport narvonshire, on Tremadoc Bay, 16 m from Caernarvon on the GW Rly It is the port for the slate quarries of Blaenan Festiniog Pop (1931) 3986

Port Moresby Scaport and capital New Guinea) It is on Fairfax Harbour Pop 3000

Pop 3000

Portobello Watering place of Midlothian, on the S shore of
the Firth of Forth, 3 m from Edinburgh, of
which city it forms part Sce EDINBURGH

Port of Spain (or Spanish Town)
Coast of Trinidad, British West Indies, capital
of the island Pop (1930) 70.641

Porto Rico Island of the Greater to USA by Spain in 1898 It is the most easterly of the group, 25 m E of Haiti, vith an area of 3435 sq m Tobacco, bananas cocoa and coffee are grown here, and sugar and cotton produced The capital of the island is San Juan Here large numbers of cettle are reared. The inhabitants are deisland is San Juan Here large numbers of cattle are reared The inhabitants are descended from the Spanish and the aborigines. The name was changed to Puerto Rico in 1932 Pop 1,544,000

Portpatrick Watering place and sea-port of Wigtownshire It is 7 m from Strangaer by the LMS Rly It has a harbour and at one time packet heats went from here to Donaghadee in Ireland, which is only 21 m away

Port Pirie Scaport of S Australia Port Pirie Scaport of S Australia Gulf, 143 m N from Adelaide Here are the smelting works and refineries for the Broken Hill silver mines Pop 9500

Portree Town of Skye, Scotland, the capital of the island it is situated on the bay of same name, 120 m by seu from Oban, with which there is a steamer service Pop 2120

Portruck Urban district and

Portrush Urban district and scaport is stands on Ramore Head, 67 m from Belfast. The Giant's Causeway is 7 m distant on an electric line. The ruins of Dunluce Castle are

in the vicinity Pop 2100
Port Said Scaport of Egypt at the It is an important coaling station, and has an extensive import and export trade It was founded in 1859 Pop 101,000

Portsea Peninsula of Hampshire, England, between Portsmouth and Langston harbours Known as "Portsea Island" it is about 6 m long The district of Portsea forms part of the borough of Portsmouth, and that city itself stands on the particular of Portsea Portseasure See Por peninsula. See Portsmouth

Portslade Urban district of Sussex It is on Shoreham Harbour, 4 m W from Brighton, on the S Rly Pop

(1931) 9527

Portsmouth Borough, city, seaport and naval station of Hampshire, on the peninsula of Portsea Island. It is 74 m from London by the S Rly Portsmouth, which was made a city in 1926, includes Landport, Portsea (where are the naval dockyards), Southsea and Cosham A floating bridge and a ferry connect Southsea with Gosnort, screes the harbour Standard with Gosport across the harbour Steamers go to Ryde and Southampton In 1924 it was made the seat of a new diocese of Portsmouth and the Isle of Wight, the old church of S Thomas becoming pro-cathedral There is a modern Roman Catholic cathedral The 16th century Southsea Castle is now a fort

The Portsmouth dockyards extend over 500 acres, and there is a gunnery school on Whale Island Pop (with Southsea, 1931) 249,288

Portsmouth City and scaport of Virginia, USA, at the mouth of the Elizabeth River, on Norfolk Harbour Here is a US navy yard and shipbuilding and railway works Pop 45,704

Portsmouth City of New Hampshire, tagna River, 58 m by rallway from Boston, it is the Co seat of Rockingham Co The port for the State, it has a large harbour, and a U.S navy yard is located on one of the many Islands The peace treaty between Russia and Japan was signed here in 1905 Pop (1930) 14 495

Port Stanley Scaport of the Falk-on the coast of E Falkland and is the only important settlement there Exports com prise whale oil, guano, wool hides and sheep skins Pop (1931) 1213

Port Sudan Seaport of Sudan On Suakin, it has a large harbour (opened 1909), and railway connections with Atbara, Snakin, and Kassala With Sunkin it handles most of the trade of the Sudan Exports include cotton, ivory, gum and durra Pop 7000

Port Sunlight Town of Cheshire, head on the LMS Rly It was founded in 1888 by Lord Leverhulme and houses the workers in the soap factories of Messrs Lever Bros, Ltd Here are recreation grounds, clubs, a fine art gallery free library, etc The town is connected with the River Mersey by Bromborough Pool

Port Talbot Shire, on Swansea Bay It is 11 m. from Swanses, on the GW Rly In 1921 it became a borough, taking in the borough of Aberavon Port Talbot has exten sive docks Copper is smelted here At Aber avon there are engineering and tinplate works Pop (1931) 40,672

Portugal Republic of Europe On the Interior Peninsula S W Europe, it is bounded S and W by the Atlantic, and on the N and E by the frontiers of Spain, the River Minho dividing it from the Spanish

province of Galicia In ancient times Portugal was known as Lusitania. Its area is 15,490 was known as Lusitania. Its area is 15,499 ag m including Madoira and the Azores Its pop in 1930 was 6,698 345. The capital is Lisbon, near the mouth of the Tagus and another important city is Oporto, on the Do ro whence port wine is shipped. Besides the Minho, the chief rivers are the Guadiana Douro and Tagus. Between the two last named rivers is the mountain range, Sorre, da Estrella (6540 ft.). So of the Tagus

Serm da Estrella (6540 ft ) S of the Tagus, the Serra de Guadelupe reaches the coast N of the Douro the Cantabrian Mts run to the coast near Oporto The Serra de Monchique, coast near Oporto The Sorra de Monchique, a boundary of the province of Algarve renches the Atlantic at Cape St. Vincent The climate is mostly healthy and the soil fertile Agricultural products include rre, malze wheat, onions tomatoes, nuts. Wine growing is an important industry which swells the export total Olives figs and oranges are grown Manufactures include textiles, tiles made of porcelain, and cork in various forms Among minerals copport lead, the silver coal and

of porcelain, and cork in various forms. Among minerals copper, lead, tin silver coal and iron are found. The chief colonies of Portugal are Mozambique, Diu Timor, Goa, Maoao Guines, Cape Verde Islands, Angola Principe and St. Thomas Islands, with an area of about 808,301 sq. m, and a pop of 10 000 000. Until Oct 5, 1910, Portugal was a monarchy, but a revolution in Lisbon thence brought about the establishment of a republic. There are two legislative chambers the lower cletched by direct suffrage, and the upper by local councils. The president is chosen by both chambers, and holds office for four years. After the Great War Portugal received terri-After the Great War Portugal received territory which had formed part of German E Africa

Port Wine Rich red wine from grapes grown in the Douro Valley Portugal, and shipped from Oporto Anglo-Portuguese treaties forbid other wines to be called port. Mostly fortified with brandy on fermentation the characteristic tint coming from a spirituous mixture containing elder berries, its alcoholic content is 1725 pc. Vintage port is usually shipped two years after its specified year and promptly bottled by the importers Tawny port usually comprises blends of different years, kept in cask in Oporto until shipped

Poseidon (or Neptune) Greek god of Chronos (Saturn) and Rhea His wife was Amphitrite As a punishment for conspiring against his brother, Zeus (Jupiter), he was obliged to build the walls of Troy Being cheated of his promised reward for this task by Laomedon King of Troy, he sided with the Greeks against the Trojans and caused a sea monster to devastate the land

Posen (or Poznan) City of Poland On the River Wurtha, 90 m N of Breslau, it is an ancient town and the capital of the province Its manufactures include sugar locomotives, agricultural machinery, etc. and it handles a considerable river trade. It has two broadcasting stations (336 M, 19 kW and 31 35 M, 1 kW) Pop (1931) 246,574

Post Mortem Redical examination of a corpse to ascertain

the cause of death It may be ordered by a the cause of death It may be ordered by a coroner to help the jury in their verdict, or may be undertaken for private reasons. In the former case the relatives cannot forbid examination. Despite its value to medical science it is not popular in U.S. A., nor among Catholics and Jews. See Autopsy.

Post Office State service for the converge of letters, etc The British Postal Service may be said to have started in 1635, when a system of packet posts was begun, and farmed at an annual rent. In 1657 it became a Government office under a postmaster general In 1710 a general office for the three kingdoms was set up Meils yere first conveved by postboys, then by coaches The milway was first used in 1830 and with its general adoption for mails the volume of business increased enormously

In 1840 Rowland Hill's penny post (inlend)

In 1840 Rowland Hill's penny post (inland) was introduced, and in 1898 imperial penny postage. The rates were medified during and after the War. The parcel post was introduced in 1883 and from time to time other services. were incorporated, e.g., telegraph and telephone, registrations, money orders and saving banks.

An extensive air mail now operates, facilitating

expedition in the exchange of correspondence

with the lands overseas

The British service is controlled by a Post master General, a minister of the Government, sometimes with cabinet rank. The head-quarters of the post office is at St Martin's-le-Grand, London E C

Potash Common name for potassium and with the prefix "caustic" for notassium hydroxide. Formerly obtained from the ashes of wood, it is manufactured chiefly from the deposits of potash minerals at Stassfurt in Saxony. Potash is a white, deliquescent, alkaline solid used in the manufacture of glass and potassium salts

Potassium the symbol K, atomic weight 39 1, and melting point 62°C Potassium is a lustrous, silvery-white metal easily cut with a knife at ordinary temperatures. It floats on water which it decomposes owing to its affinity for oxygen Potassium is an rocks, is present in plant and animal tissues, also as chlorides and sulphates in sea water and mineral springs. Its compounds are of great economic importance. great economic importance

Potato Tuher of a perennial herb of the nightshade order (Solanum tuberosum) Oultivated by the Inca peoples in pre-Columbian America, it reached 16th-contart Spain from Peru, and somewhat later Ireland from Virginia, 1585-86 Its cultivation throughout Britain started from 17th-century Lanca sailo. Now extonsively grown in all temperate and sub-tropical regions, it ranks next to cereal stains as a food-plant for man and cattle, besides furnishing farina for textile purposes, development of the design of the state and restrict Booldes the design. dextrine and potato spirit. Besides the destruc tre potato disease the tuber is also liable to wart disease, the development of varieties immune from which has restored to cultivation much infected land See SWFFT POTATO

Potential in electricity, a condition of conductor which may be compared with pressure. When two parts of a conductor are at different potentials, a flow of current takes place from that of greater to that of lesser potential until the potential is equalised Potential difference (P.D.) there fore, is similar to electromotive force (E M F), and is measured in volts. See Electronerry

Potentiometer Electrical instrument used for the measure-

scale and through which a constant current from a generator is passed Sliding contacts are provided to enable tappings to be made, and the potential is compared with that of a standard cell of known electromotive force

Pot-Hole Cavity more or less cylindrical in the bed of a rapid stream, stoured out by detrital matter gynting in an eddying current of water sometimes glacierfed When the water reaches a plane of stratification in limestone regions it may pro-duce long shafts or swallow-holes, ultimately extensive caverns Sec forming HOLE

Pot-Pourri French translation of the name of a Spanish ragout, olla podrida Hence it denotes any medler, musical or literary, and specifically a mixture of dead rose petals lavender and spices, kept in eachets or porcelain jars

Potsdam Town of Prussia, capital of the province of Brandenburg. It is 16 m from Beflin on an island in the lake district of Havel Here are the former palaces of the German Emperor and others of the Hohenzollern family. The town is picturesque in its situation and planning. Here is the palace of Sans Souch built by Frederick the Great in 1760. The town manufactures chemicals, furniture, surgical and finusical instruments, etc. Pop 73 676.

Pot Still Form of distilling apparatus so called from its pot-shape and used in the manufacture of spirits. The still is made of copper and is directly heated over a coal fire or by steam. This form of still is used chiefly in making Scotch whisky

Potteries The District of N Stafford-It is the centre of earthenware and china manufactures, and comprises Hanley Stoke upon Trent, Burslem, Longton, Tunstall and Fonton These, with other smaller neighbouring districts were made into the county borough of Stoke upon-Trent in 1970 See Stoke upon-Trent

Potter's Bar District of Middlesex It on the Great North Road, 13 m from London, and on the LNE Riv Objects from clays air-dried or Pottery objects from clays air-dried or Road It its conficulty objects.

fred In its earlier stage a vessel was built up by hand and fired on an open hearth Later the potter's wheel and kiln were introduced, followed by the use of glazing and enamcilling Decoration also developed from simple incised lines and colouring to the artistic designs and polychrome ware of later Egypt and Greece In mediacval times the Moors brought enamelled ware into Spain, and in the 12th century a soft coarse ware was introduced from Majorca into Italy whose ceramic products later became famous In France from the 16th

later became famous. In France from the 16th century onwards the making of soft porcelain followed by hard porcelain marked a further advance, and other improvements were made in England under the influence of Joslah Wedgnood

For fine earthenware and porcelain knolin, or china clay, is used, and ballelay, a very strong plastic material, for earthenware, while Cornish stone, felspar, calcined bone and flint form the basis of glazes, etc.

ment of the electromotive force of a cell or the difference of potential It consists of a wire or coll of uniform resistance stretched over a 15 3 m from Blackpool Pop (1931) 3366.

Poultry Name used for domestic fowls fowl is derived from the wild Indian jungle fowl The many varieties are classed roughly as layers (non setting), utility (general pur pose), table and fancy breeds, whose purpose is sufficiently indicated by these names The is sufficiently indicated by these names. The principal breeds in the first group are. Ancona, Andalusian, Compine, Hamburgh, Houdan Leghorn Minorca, in the second, Langshan, Orpingtons Plymouth Rock, Rhode Island Red, Sussex (red, light and speckled), Wyandotte in the third, Dorking, Game and certain French varieties, the ornamental varieties include hearters. Yeleborgunde them

varieties, the ornamental varieties include bantams, Yokohamas and others Ducks are said to derive from the mallard and one of the breeds commonly kept, the Rouen, closely resembles the wild duck in appearance The leading varieties of duck are Aylesbury, Indian Runner, Khaki-Campbell, Orpingtons, Pekin and Rouen

Geese are said to come from the wild species Geese are said to come from the wild species known as the grey log, a winter visitor to Britain. The Toulouse and Embdon are the most popular for culture, the latter being the heavier. It is white the Toulouse being grey. Turkeys are derived from the wild N American species, there are three breeds mainly favoured in Britain, the American Bronze, the Cambridge Bronze, and a smaller variety, the Norfolk black turkey.

The inter sts of poultry breeders and exhibitors are looked after by the Poultry Club,

3 Ludgate Broadway, London EC 4

Pounce Powder formerly sprinkled over newly written matter to prevent the ink spreading or blotting Composed of sand, cuttle bone, or some resinous substauce, it was shaken out from a box with a perforated lid called a pounce-pot The use of pounce died out after the introduction of blotting paper

Pound English unit of weight It is divided into 16 oz avoirdupois or 7000 grains In troy weight, used for weighing

7000 grains In troy weight, used for weighing gold, silver, platinum and precious stones, and in dispensing medicines, the pound is equal to 12 oz or 5760 grains

Pound British monetary unit. The British pound sterling was originally 5760 grains of silver of a standard fineness. In 1816 gold currency replaced the silver pound The gold sovereign has no relation to any pound weight, and actually weighs 123 274 grains of 22 carat gold.

Pound straying animals, or for receiving animals or goods taken in distraint for rent The cost of feeding such animals is recoverable from the owner

from the owner

Poussin Nicholas French painter Born 1504, he studied paint ing under Quentin Varin, and later secured powerful patronage From 1640 42 he was at Paris as court painter to Louis XIII, returning thereafter to Rome where he worked until his death Nov 19 1665 His paintings (historical pictures, sacred subjects and classical land scapes) are to be found in most European capitals. In England the National Gallery and Dulwich Gallery have many fine examples of his work

Poussin's brother in law, Gaspard Dughet, born in 1613 was also a painter He took the name of Poussin and became famous for his landscapes He died on May 27, 1675

Power of Attorney Written auth ority, usually signed and sealed empowering the person

named to perform acts which otherwise could only be performed by the donor It may be general, to cover all negotiations, or special it ceases at the principals death, and is terminable at his discretion

Power Transmission Frighterm Power generated from natural sources such as coal, natural gas, water, etc., may be transmitted for useful application some distance away by mechanical means—shafting, moving ropes, etc—or by high pressure air and water mains, or after conversion into electricity, by overhead or underground cables The term is applied especially to the transmission of electrical power by a network of overhead cables

Poynter Sir Edward John British Poynter painter Born in Paris on March 30, 1836, he became A R A in 1869 and R A. in 1876 and succeeded Millais as P R.A in 1896 He was Director of the National Gallery, 1884 1905 Knighted in 1896, he was made a baronet in 1902, and died on July 26, 1919 His work includes classical paintings,

portraits, and frescoes

Village of France near Albert, Pozieres Somme During the Great War it was held first by the Germans, to whom its it was held first by the Germans, to whom its slightly elevated position made it useful for observation over the adjacent battle zone In July, 1916, it was rushed by British and Anzac divisions In the spring of 1918 it was recaptured by the Germans, but taken again by the British in August There is a memorial to the Australians who died in the attack of 1916, and also a British memorial. See Albert, SOMME

Praefect Title of certain officials of ancient Rome There were naval and military praefects A praefectus custrorum, or camp praefect, was attached to every legion The praefectus urb (carlier termed custos urb) was warden of the city During the empire the office of praefectus praeforio, or commander of the practorian guard, became of great importance, and at one time the powers of such practicets were exceeded only by those of the emperor himself See PRAETOR

Praetor In ancient Rome, a magistrate next in importance to a consul The practor was first elected in 366 BC, his office being to rule during the absence from Rome of the consuls on military service. In 246 a second was appointed (practor percornus), the first being then termed practor urbanus Later more practors were appointed, to govern new provinces, or take charge of departments of the state. A curule magistrate, the practor presided at criminal trials, and was attended

by liotors
The Practorian Guard was a body of troops
The Practorian Guard was a body of troops whose duty was to guard the emperor In stituted by Augustus, 2 n c, eventually they wielded such influence as to make and break emperors The practorians were disbanded in

D 312 by Constantine

Pragmatism Doctrine of philosophy William James or Chas S Peirce was apparently the first to use the term, which denotes a doctrine according to which the truth of a conception is to be tested by its practical value, or its workableness It has been described asia revolt against the over elaborated idealism of the metaphysicians See James, W

Prague the republic Its German name

is Prag, Czech Praha. In Bohemia, on both banks of the Moldau River, it has extensive suburbs The Gothic Cathedral dates from 1344 On the left bank of the Moldau is the fortress of Hradschin Prague is the scat of a German and Czech university It has an extensive river traffic, and many important industries, including iron foundries, engineering works, chemical and cement works, toxtile factories It has two broadcasting stations (488 6 M, 120 kW and 58 M) Pop 850,000

Prairie Dog (or Prairie Marmot) Genus rodent of the squirrel family (Cynomys) Stout, squat, 12 in long with 4 to 5 in tail, reddish grev and paler beneath, prairie dogs forming extensive villages, and utter whistling cries The common C ludoncanus is replaced by a white-tailed form W of the Rocky Mts, another is Moxican

Prawn widely distributed family of shrimp like ten-footed crustaceans Mostly marine, 2-12 in long, the last three pairs of thoracic limbs never bear pincers, the two front pairs frequently do The British edible Palaemon serratus, 3-4 in long, with toothed rostrum projecting in front of the carapace, is usually taken in hand ring-nets or osler basket-traps Some tropical species rival lobsters in size, e.g., the W Indian prawn, P jamaicensis, and the Indian prawn, P lar, highly esteemed with curry

Praxiteles Greek sculptor He lived at Athens, where, perhaps, he was born c. 400 B c His works are known mostly by copies which exist, such as the Aphrodite of Cnidus, Eros, Satyr, Apollo, and others During excavations among the ruins of Olympia in 1877 a group of Hermes and Dionysius by Praxiteles was found, which is probably the only original sculpture by him in existence His work is characterised by its fine modelling, beauty of line, and expression He died c 330 B C

Prayer Book Order of church serform the Book of Common Prayer of the Church of England dates substantially from 1559, when, after the uccession of Elizabeth, the second prayer book of Edward VI (1552) was revised The first prayer book of Edward VI (1549), mainly an English version of the Missal, found little favour either with the reformers or those who adhered to the ancient rites, and Edward's second book was intended to placate the former party, who desired a closer conformity with the liturgy of the reformed churches abroad

Repressed by the Commonwealth, and restored in 1660, the Act of Uniformity of 1662 authorised it as the only legal service book. In 1927 a revised prayer book was submitted to Parliament, after acceptance by both convocations and the Church Assembly, but was rejected. Some alterations were made, and it was presented to Parliament in 1928, but that body again rejected it

Prebend Term formerly denoting the stipend of a secular priest or a canon regular, or the endowment from which this was provided It was afterwards applied to the endowment for a canon residentiary of a cathedral, who was known in consequence as a prebendary In modern times, however, this is generally an honorary office, and the probendary is then not a member of the cathedral chapter, and receives no stipend

Pre-Cambrian Name denoting all Cambrian, all, or the oldest at least, also called Archaean Lying beneath the Cambrian beds containing Olcnellus trilobites, they comprise igneous and sedimentary rocks, usually highly metamorphosed, exposed over one fifth of the present land surface, including 1,800,000 sq m in Canada and large areas in N W Scotland See LAURENTIAN

Precedence Priority of place to which titled and official persons or officers of the Services are entitled by the rank conferred on them by the crown Phere is an official table of precedence in which the order is set out The sovereign is at the head, followed by the Prince of Wales and other sons, brothers, uncles and nephews of the sovereign, and ambassadors Next come the Archbishop of Canterbury, Lord Chancellor, Archbishop of York, Prime Minister, Lord President of the Council, Speaker of House of Commons, Lord Privy Seal, Lord Great Chamberlain, Lord High Constable, Earl Marshall, Lord Steward of the Household, and Lord Chamberlain Then follow dukes, marquesses, earls, viscounts, bishops, secretaries of state (if barons) barons, certain officers of the household, secretaries of state not barons, Knights of Garter, Privy Councillors, Chancellor of Exchequer, Chancellor of Duchy of Lancaster, Lord Chief Justice, Master of Rolls, Appeal Justices, Lords of Appeal, other Judges, baronets, members of orders of knighthood, County Court judges, companions, members and officers of various orders, gentlemen entitled to bear arms Sons of peers, baronets, knights, etc., rank in a manner decided by that of the father, a duke's eldest son, for example, taking precedence after a marquess, and the eldest son of a marquess after an earl

Precentor Leader of singing in church In most English Old-Foundation cathedrals he ranks after the dean, a vicar-choral being succentor, in others he is a minor canon, and in some important parish churches the senior curate In Scottish churches he led the psalmody before organs were introduced.

were introduced.

Preceptor Literally this means a ceptors, established 1846, incorporated 1849, is a body devoted to education, granting various diplomas to teachers, and issuing a certificate of teaching ability Examinations for pupils are held The diplomas are those of Associate, ACP, licentiate, LCP, and fellow FCP The address of the college is Bloomsbury Square, London, WC1

Precession Astronomical term. It slow backward movement of the equinoctial points along the ecluptic and known as the precession of the equinoxes. This is due to the differential attraction of the sun and moon upon the carth's equatorial protuberance. The equinoctial points take 25,800 years to complete one circuit of the heavens.

Precipitation Term in chemistry for the process by which an insoluble substance is made to fail to the bottom of a liquid The solutions of two substances are inixed, forming a third substance, which, being insoluble, sinks to the bottom and is termed a precipitate

Predestination Theological term de noting the Divine predetermining of human destiny It may

stand for belief in fate, the conception that presbyteries, which are represented in proall that is to be is eternally and changelessly decreed, or, specifically, that each individual is destined beforehand to everlasting weal or Age long controversies have attended attempts to reconcile the doctrine of human free will with that of God's omnipotence See AUGUSTINE, CALVIN

Prefect One set in authority In governor of a department, and this title is given also to the head of the Paris police (Seine department) The prefects at English public schools are senior boys charmed with keeping order and maintaining discipline

See PRAEFECT

Premium Term meaning a prize, retice or articled pupil pays a premium for his tice or articled pupil pays a premium for his instruction in a trade or profession. Shares in a company are sometimes quoted at a premium, i.e., a sum above their par value, \$100 worth costing £105, etc. A premium bond is a bond carrying with it the chance of winning a money prize Such a scheme is of winning a money prize Such a scheme is of the nature of a lottery, the prizes being given to helders of certain numbers drawn The term is also used to denote sums payable periodically in respect of policies of insurance

Pre-Raphaelites Group of English artists who, in 1848, broke away from the conventional art of their day. They formed the Pre Raphaelite Brotherhood with the idea of roturning to the primitive outlook of the early Italian painters. The original founders were Holman Hunt, Rossetti and Millais. The movement brought about the use of purer and truer colours, but was marred by over elaboration of minute detail. of minute detail

Prerogative Right or privilege attach ing to a person or body The royal prerogative, now exercised through the cabinet or the privy council, entitles the sovereign to declare war, summen, proregue or dissolve parliament, nominate ministers, create peers pardon offenders etc. Former of wills of persons dying in the provinces of Cantorbury and York were called prerogative

Canterbury and York were cannot prerogative courts Sec Crown, Probate

Presbyopia Detect of vision, usually lity of the eye lens in old age. The sufferyr is unable to focus near objects but can still see distant ones clearly The condition is corrected distant ones clearly The oby wearing convex lenses

Presbyter Elder of the early Christian Church, the name is also used for a priest. In the Presbyterian denominations a presbyter is an elder or a member of a presbytery, the latter being an official court of a district, composed of pastors and elders The district also is termed a presbytery

Presbyterianism Form of church government by presbyters or elders Claiming to be a New Testament institution in continuation of Testament institution in continuation of Jewish synagogue practice, it developed into the prelatic form of rule of mediaeval Christen the prelatic form of rule of mediaeval Christen dom At the Reformation presbyterianism emerged once more, notably under Calvin s forceful influence, side by side with the in dependent principle which congregationalism developed Destined to prevail in Scotland, it acknowledges the government of each church by ciders including the preaching elder or minister Churches are associated in local

vincial synods, and in a national or general assembly constituting the final court of appeal. meeting annually, each court is under a presiding moderator World statistics of Presbytorianiam reckon a present strength of about 6,500,000 See Oalvinistic Method-ISTS: SCOTLAND CHURCH OF, etc

Prescot Urban district and market town of Lancashire, on the LMS Rly, it is 7 m from Liverpool and a centro of the watchmaking industry, with potteries, electric cable works and coal mines. Knowsley, the scat of the earl of Derby, is in the neighbourhood. Pop (1931) 9396

Pressburg German name of the city Czecho Slovakia, better known as Bratislava See Bratislava

Press Gang Men formerly engaged in compulsory recruiting for the army or navy By an act of 1835 the period of compulsory service for men impressed for the navy was limited to five years

Pressure Gauge Appliance for the mass ring the The pressure of steam, gas, water etc. The usual type of gauge on boilers for registering usual type of gauge on bollors for registering steam pressure consists of a flattened bronze tube bent in a curve and having one end open and connected to the steam pipe, the other end being scaled and linked to a pointer on a dial graduated to ibs per sq inch Pres-sure of steam in the tube causes it to tend to straighten and this movement is registered by the pointer

Prestatyn Market town and urban district of Flintshire A const town, it is 2051 m from London by the L M S Rly Here is a ruined castle. Pop 4511

Presteign Urban district and market town of Radnorshire On the River Lugge it is 7 m from New Radnor, on the G W Rly It is the county town Pop (1931) 1102

Prester John Legendary 12th century Christian ruler of a kingdom in the Far East. The name means 'priest' He is referred to in many mediaeval traveller's tales and attempts have been made to show that Prester John was the ruler of a state in Abyssinia. A kinsman who took the same name is said to have been slain by Jenghiz Khan

Preston Scaport, county borough, river port and market town of Lancashire It is 31 m from Manchester, on the estuary of the Ribble, 12 m from its mouth It is 209 m from London by the L M S Rly Preston is a centre of the cotton spinning industry and there are also foundries engineer ing works and shipbuilding yards. The harbour and extensive docks are owned by the town 11 sends two members to Parliament Pop (1931) 118,339 Preston was the scene of a battle fought, Aug 17, 1648, between Parliamentarians and Royalists in which the latter suffered a heavy defeat

The famous association football club

The famous association football club, Preston North End, was one of the clubs comprising the league in 1888 and won the league championship in that year and the F.A Cup

in 1889

Prestonpans Village of Haddington shire On the Firth of Forth, 9 m from Edinburgh, it has a station on the L N E Rly The name is derived from former salt pans here which were worked until the end of the 17th century

The Battle of Prestonpans, Sept. 21, 1745, was fought between a Jacobite army under Prince Charles Edward and royal forces commanded by Sir John Cope The latter had landed at Dunbar and was marching on Edinburgh, whence the Jacobites came out to meet him Cope's army was quickly routed, only a few, including the leader, escaping to Berwick.

Prestwich Urban district of Lancashire on the LMS Rly Cotton is manufactured on the LMS Rly Pop (1931) 23,876

Prestwick Burgh of Avrshire, On the Firth of Clyde, 2 m from Ayr, it is famous for its golf links. It is on the LMS Riy Pop (1931) 8538

Pretoria City of the Transyaal On the

Pretoria Pretoria Aspics river, 45 m from Johannesburg, it was founded by and named in honour of Marthinius Pretorius (1819-1901), first president of the South African Republic It is the capital of the Transvall and the seat of government of the Union of South Africa The city lies at the foot of the Mogaliesburg Mis, and is a railway junction Pop (1931) 62,096 whites

Priam In ancient Greek legend, the last King of Troy Son of Laomedon, and husband of Hecuba, he was the father of Hector and Paris When Hercules took Troy in revenge for Laomedon's broken promise to reward him for rescuing Hesione from the sea monster, Priam was spared, and Hesione redeemed him from captivity Priam was slain by Neoptolemus when the Greeks cap-tured Troy

Prickly Pear See CACTUS

Priestley John Boynton British author born at Bradford, 1894 He served in the Great War and then went to Trinity Hall, Cambridge He had earlier done work for a Socialist weekly, and took up reviewing for the Daily News He wrote lives of George Meredith and T L Peacock, 1926 7, and a successful novel, The Good Companions, 1929, which was produced as a play in 1931 Two other novels, Anyal Panement and Faraway followed in 1930 and 1932 respectively, and in followed in 1930 and 1932 respectively, and in 1933 Wonder Hero His plays include Dangerous Corner, Eden End, Laburnum Grove and Cornelius.

Priestley Joseph British chemist Born educated for the nonconformist ministry, and while at Warrington as minister published a History of Electricity (1767) Going to Leeds, where he remained some years he began to study gases, discovering except in 1774 From 1780 91 Priestley was a minister at Birmingham, where his political opinions caused him to be mobbed and his house and library burned He went to London, and in 1794 emigrated to Pennes Ironia. burned He went to London, and in 1794 emigrated to Pennsylvania, where he died Feb 6, 1804 Among his discoveries were nitric oxide, hydrochloric acid, and sulphur dioxide He was the first to use carbon dioxide in the preparation of "mineral 'waters

Primate Title of the Archbishops of Canterbury (Primate of all England) and York (Primate of England) An analogous title, primus, is held by the bishop who presides over the Synod of the Episcopal Church of Scotland. In the R.C Church the title primate is borne by bishops of sees formerly carrying the night of Vicer of the Holy See

keys and lemurs, although some authorities keys and lemurs, although some authorities rank these separately Except man (qv), who has adapted himself to all climates and developed other distinctive characters, all are essentially tropical and sub-tropical and nearly all arbored. The fore-limbs are set apart to wait chiefly upon the head, and like the hind-limbs are adapted for grasning the great rank these separately limbs are adapted for grasping, the great toes being flat-nailed and usually opposable The eyes are brought to the front of the head See Monkey

Minister Chief minister of the British sever. Prime

eign and people, also known as the premier

The prime minister must be a member of
Parliament and since 1923 has been a member of the House of Commons He is selected by the sovereign, but must enjoy the support of a majority of the members He selects the members of the Cabinet, advises the sovereign on all matters of importance, heads the govern ment and is the leader of his own political party

Prine Ministers of the Past Hundred Years.

1834 -Viscom t Melbourne 1834-35—Sir Robert Feel 1835-41—Viscount Melbourne 1841-16—Sir Robert Feel 1846-52-Lord John (Earl)

1846-52—Lord John (Earl)
Russell
1852 —Earl of Derby
1852-55—Earl of Aberdeen
1853-58—Viscount Palmerston
1838-69—Earl of Derby
1859-66—Viscount Palmerston
1806-66—Earl Russell 1866-68-Earl of Derby

1866-68-Earl of Derby
1868 —B Disraell (Earl of
Beaconsfield)
1868-74-W E. Gladstone.
1874-80-Earl of Beaconsfield
1850-85-W E. Gladstone.
1835-85-Marquess of
Ballsbury

1986 -W E. Gladstone.

1886-92-Marquess of 1892 94—W E. Gladstone. 1894 05—Larl of Rocebery 1895-1902—Marquers of Rallabury 1902-05-A. J (Earl of)

Balfour

Balfour
1005-08-Sir H. CampbellBannerman.
1910-16-H. H. Asquith (Earl
of Oxford)
1916-22-D Lloyd George.
1923-24-Stanley Baldwin.
1924 - J. Ramsay
MacDonald.
1924-20-Stanley Baldwin.
1924-20-Stanley Baldwin.
1925-35-J. Ramsay
MacDonald.
1925-35-J. Ramsay
MacDonald.
1935 - Stanley Baldwin.

1935 -Btanley Baldwin.

Primitive Methodists Evangemunity It arose from the introduction into English Methodist practice of open air revival meetings From 1807 onwards such meetings, meetings From 1807 onwards such meetings, held under Weslevan Methodist protection, were especially fostered by Hugh Bourne and William Clowes who, excluded from member-ship for utilisms unauthorised forms of worship, ship for utilising unauthorised forms of worship, joined forces, 1810, and adopted the Primitive Methodist title, 1812 For 30 years the founders actively guided the rapidly expanding work, and 10 years after that, when both had died, a loose connection of fodorated districts gradually developed, becoming the Primitive Methodist Church, 1902 Organic union with other Methodist communions was authorised by Parliament for 1933 See Methodism

Primo de Rivera See Rivera

Primogeniture Right of the first-born It was applied in England to the practice whereby real estate descended to the eldest son on intestacy This system was done away with by an act of 1925

Primrose Herbaccous perennial of the genus Primula, of which there are 250 species. The case with which they may be cross fertilised makes them a popular English garden flower, the best hybrids being obtained from auricula, Chinese primrose and primrose obcomea

primate is borne by bishops of sees formerly carrying the dignity of Vicar of the Holy See Primates Highest mammallan order It isation Founded in 1683, its name is an includes mankind, apes, monallusion to a favourite flower of the Earl of

Beaconsfield The anniversary of Beaconfield's death, April 19, known as Primrose Day, is honoured by the wearing of a bunch of primroses The address of the Primrose League

is 64 Victoria St, London, S W 1

Primula large genus of perennial herbs
Primula of the primrose order The
British species are the common, bird's-eve
and Scottish primroses, cowslip and oxilin
(qv) Besides the garden polyanthus, derived from one or two of the above, innumerable varieties, double flowered forms and hybrids have come from these and exotic species introduced since the 16th century

Prince Albert City of Saskatchewan, Canada It is on the North Saskatchewan River, 247 m N of Regins, and is a junction on the CN Riys The chief industries are lumbering and the milling of grain The Prince Albert National Park, opened in 1928, has an area of 1400 sq m Pop (1931) 9905

Edward Island rince Province of Canada. It is in the Gulf of St Lawrence separated from the mainland by

Northumberland Strait Its area is 2184 sq m, and it is the smallest of the Canadian provinces The capital, Charlottetown, is on Hillsborough Agriculture is the principal industry Bay The island was colonised by the French about 1720, became a British possession in 1763, and was united to the Dominion of Canada in 1873 Pop (1931) 88,040

Prince of Wales Title borne first by the son of Edward I and since conferred on the eldest son of the sovereign The badge is a plume of three ostrich feathers enfiled by a coronet, the motto being *Ich dien* (Ger, I serve)

Prince Rupert Port of British Col Kaien island in the Skeena River 550 m N from Yancouver, and is a terminus of the CN Rlys There is a large harbour and various fisheries are carried on Pop 7500

Princes Risborough Bucking hamshire It is 7 m from Aylesbury, on the LNE Rlys Chequers the official country residence of the Prime Minister, is 31 m away

Pop 2438

Princeton Town of New Jersey, United States It is 10 m from Trenton and is served by rellway and canal The university owes its existence to a college founded at Elizabethtown in 1746, and moved to Princeton in 1766 It was then called the college of New Jersey There were in 1932 2554 students

Princetown Town of Devonshire It is on Dartmoor, 22 m. the GW Rly Near is from Plymouth, on the GW Rly Near is Dartmoor prison The town which is a tourist centre, is on the estate of the Prince of Wales,

as Duke of Cornwall

Art of printing from movable Printing rilliting types It originated in the mid-15th century in Germany Gutenberg, and Fust and Schoeffer at Mainz, were doing experimental work before 1450 and the 42 Bible known as Gutenberg s appeared in 1455 Work was also done at Strassburg, and from Mainz the art spread to Nuremberg, Sweynheim Augsburg Cologne and and Pannartz established a press first at Sublaco and then at Rome The Frenchman, Jenson, inventor of Roman type, began printing at

Venico in 1470 In Franco Spain and Flanders, Holland, and Switzerland presses were soon at work, and in 1476 the English Caxton, after some preliminary work at Bruges, set

up his press at Westminster

The modern art ís divided roughly into letterpess, or rollef printing and litho graphic, a flat surface being used in the latter (See LITHOGRAPHY) Letterpress printing comprises the composition of type, assembling of type and blocks, etc., and the machining The introduction of the Monotype Linotype and Intertype (1886 9) abolished hand composition for all but special work The first casts separate types set up into lines, and is widely used for book work, the others turn out solid slugs each a stereo of a single line, used for news paper work, etc Monotype set matter can be corrected and manipulated like hand set matter

Early printing presses were not greatly different in principle from those still used for odd purposes in printing works. The forme of type was carried on a flat bed, and the paper pressed into contact with it by a platen Koenig (1811) introduced a cylinder press which was the prototype of those used largely to day for book printing Advances were the addition of another cylinder, permitting both sides of the paper to be printed in a single operation. In modern rotary presses forme cylinders carry curved stereos of the type matter and the paper is fed from one or more reels The output from several units can be combined, folded into a newspaper and delivered automatically at a remarkable speed See Intaglio, Lithography
Prior Matthew English poet and diplo

mat Born July 21, 1664, he entered the diplomatic service 1691, going to The Hague, Paris, and in 1711 to Utrecht in connection with the peace treaty. He was at the Paris embassy as minister in 1713, on his return in 1715 he was impeached and im-prisoned for two years. His chief poems are Solomon, or the Vanity of the World and Alma, or the Progress of the Mind Ho dled Sept 18

1721

River of Russia It rises in the Pripet west of the country and joins the Dneiper, north of Riev Its length is about 500 m and it is navigable to Pinsk Canals connect it with the Vistula and other rivers It flows through a district of marshes which

became prominent during the Great War

Prism Geometrical term for a solid
whose two ends are equal similar and parallel plane figures, and its sides paral lelograms The axis joins the centres of the two ends, and a right prism has its axis per pendicular to its ends In optics a triangular glass prism is used for refraction and dis

persion of light

Prison Place of detention The modern system for dealing with criminals dates from the early 19th century John Howard had published in 1777 his powerful plea for reform In 1813 Elizabeth Fry began her work for the Newgate prisoners Jeremy her work for the Newgate prisoners Bentham's "Panopticon" was th was the model 816) Pentonville model for Millbank penitentiary (1816) (1842) was part of the scheme for the separate system which had been recommended by the House of Lords in 1835 Holloway prison was built in 1854 Dartmoor, built for French was paint in 1834 Dartmoor, built for Figure was prisoners in 1806, was made into a convict prison in 1850, and the prison on Portland Bill was constructed about the same time. Transportation ceased, and a new system became

necessary Penal servitude was introduced, and termed a process server the employment of convicts on public works of some magnitude See Borstal, Penal Servitude, Reformatory, Transportation

Genus of shrub or low trees of the Privet olive order (Liquistrum) They bear simple entire leaves and clustered white funnel shaped flowers, yielding small globular herries Of the common privet of Britain and Europe, L culgare, yariegated and weeping varieties are cultivated, besides Chinese and Japanese evergreen species

Privy Council Council to advise the sovereign on matters of state Since the adoption of the system of cabinet government this body has lost much of its former powers, and now deals mainly with certain formal matters. Thus on the death of the king it is summoned to proclaim the new sovereign. The council is composed of distinguished persons of the country, including the royal princes the archbishops of Canterbury and York, officers of State and of the Household the Speaker of the House of Commons, etc. Its members are styled, "The Right Honourable" and take precedence Right Honourable" and take precedence after Knights of the Garter The Lord President of the Council ranks next to the Prime Minister The judicial committee of the council is the supreme appeal court for the Dominions See Cabinet, Judicial Committee

Privy Purse In England the allow ance from the civil list for the personal use of the sovereign It is dealt with according to the King's direction by the Privy Purse Office The amount is £110 000 per annum

Privy Seal one of the three legally recognised Royal Seals It first appeared under King John, and was used to validate the Crown's private expendi-ture. Its use was abolished in 1884, but the litle of Lord Keeper for one of the members of the Cabinet was retained

Prize Court Court to deal with prizes goods captured at sea Such courts are set up by the countries concerned upon the outbreak of hostilities The procedure differs in various countries During the Great War the proceeds of prizes taken by British ships were paid

of prizes taken by British ships were paid into a common fund for the whole navy Formerly the practice was to distribute the prize money among the company of the ship actually taking the prize

Probate Legal proving of a will The will, with a copy, is taken to a registry, and also an affidavit stating particulars of the testator's estate and another proving his death, etc Upon the will being admitted to probate a parchment copy (the probate copy) is issued, which is legal evidence of the will, the original being illed at the registry, where it can be inspected on payment of a fec. Sec Will.

Probation Judicial system under which

Probation Judicial system under which offenders, instead of being committed to prison upon being convicted, are placed under a bond to be of good behaviour for a specified period. The method is used with oung delinquents, who are then sometimes placed under the supervision of a probation officer. If the offender breaks his bond he may be recalled and he may be recalled and sentenced See Borstal, RITORNATORY SCHOOL

Process Course of legal proceedings. The writ of summons also is

In Scots Law the term process means a summary warrant for imprisonment issued against a person who, having borrowed a process from the court,

naving porrowed a process from the court, unwarrantably refuses to return it

Proclamation Public announcement

It is made by authority of the king in council, and the proclamation is read aloud in the capitals by heralds. Thus the death of a sovereign and accession of his successor, are proclaimed, and a similar announcement is made of a declaration of war. The prorogation of Parliament dissolution proclaimed

Proconsul In ancient Rome a magis-of a consul He was usually a consul who had of office It became customary to entrust such an officer with the charge of a province or the command of an army See Consultation of the word procurator meaning one who nerforms

roctor duties for another The name is given to two officers of Oxford and Cambridge Universities among whose duties is the maintenance of discipline among undergraduates

The legal officer known as the king's proctor intervenes in divorce or nullity suits if he suspects collusion or fraud. The term proctor is employed also for certain representatives in convocation (q v ) See Divorce Procuration Procuration woman for unlawful in-

tercourse An Act of 1885 (amended by the Criminal Law Amendment Act, 1912) prescribes heavy penalties for the offence

Procurator One who acts for another In Scotland it is used for a law-agent The faculty of procurators fixes the fees to be charged by its members for convevancing or litigation business The procurator-fiscal is a Scots law officer appointed by the Lord Advocate He inquires into cases of crime and conducts investigations into cases

of sudden death He also prosecutes in cases indicted before the supreme court.

Profiteering selling of commodities at an exorbitant profit.

During the Great War prices rose generally and some sought to take advantage of a national emergency. In Great Britain an Act was passed in 1919 to stop profiteering. The Board of Trade was given power to investigate complaints and take action against offenders

Profit Sharing System by which business receive besides the ordinary wage, a share of the profits made. It is held that the riving of this bonus, by causing the worker to take a greater interest in the business, helps to effect economics and reduce waste Difficulties arising are that the profits are governed by other factors than production costs, and trade unions have given the system relatively little support See Co PARTNERSHIP

Progression Mathematical term de-noting a type of series Thus a series of numbers may be in arithmetical progression, as 2, 4, 6 8, 10, where the numbers have a constant difference, or in a geometrical progression, as 1, 16, 61, 256, 1024, where each is a regular multiple of the prereding one

Prohibition Term especially applied to the prohibition of the called a process and the officer serving it is manufacture, sale, and transportation of

intoxicating liquors for beverage purposes. The United States of America imposed a probibition measure in July, 1919, but this was removed in 1937. As a war measure control or prohibition of the liquor traffic was imposed a several other countries. Various provinces of Canada from 1915-1917 introduced prohibition until Quebec alone remained out side, and in that territory a great area had adopted prohibition under local option. In the United States an illicit liquor trade quickly developed. Smuggling became rife, and a regular industry grow up of the running of cargoes of intoxicants to points outside American territorial waters, whence the liquor was transmitted to the vessels of the so-called "boot leggers" Sec LOCAL OPTION

Projectile Body projected or given a free path through the air, as in the case of a ball, bullet or shell The path described by a projectile is termed the trajectory and the study of the different factors governing it has become very important

Proletariat Term used to denote the community collectively By socialists it is used to distinguish this class from the capit alists and the middle classes, often termed bourgenste The word is from a Latin one meaning those citizens who had no property, but served the state by producing offspring

Prometheus In ancient Greek legend one of the Titans He dlimbed to the heavens and stole fire from the sun in order to give life to men Zeus punished him by causing Vulcan to chain him to a rock on the Caucasus, and here a vulture came by day and ted on his liver which grew atresh each night. Finally, Her cules delivered Prometheus and killed his tormentor

Promissory Note Written promise mand or at a specified future time a sum of money to a person specified, or to his order, or to bearer The note must be signed by the drawer, and the promise must be subject to no conditions Unlike an IOU which is a mere acknowledgment of a debt, a promis sory note is negotiable and if endorsed by the payee (or person to whom the promise is made) to a third party—the endorsec—the latter can sue the drawer whether or not there was raluable consideration in the first place See Bill of Exchange

Proof Spirit Dilute alcohol It con weight or 57 06 per cent. by volume of absolute alcohol Its use in pharmacy is now superseded generally by alcohol of a higher strength Spirit stronger than proof spirit is said to be overproof, if weaker, underproof

Propagation Continuing a species by processes of reproduction Most flowering plants effect it naturally by seeds runners rooting at the joints, offsets from bulbs or stems above ground, etc. Artificial methods used in horticulture include detaching slips, cuttings, shoots or suckers, dividing the plant into reproductive sections, layering and grafting

Propeller Pevolving mechanism for prostitution has compressels, alreadt or machinery A screw propeller used on vessels takes the form of a shaft with spiral blades and the speed of the propeller is llimited largely by centrifugal effort Protection

In aircraft the term specially refers to the airscrew which propels the machine

Propertius Sextus Roman poet Born in Umbria about 49 BC., he was a friend of Maccenas, Virgil, Ovid, Tibulius and Horace He is colebrated for his Elegies in which he followed the style of the Alexandrine elegiae poets His poems are mostly concerned with his mistress "Cynthia," a native of Tibur, whose real name was Hostla The fourth and last book of elegies deals with Roman history He died about 16 BC

Proportional Representation

System of voting It aims at securing representation of minority bodies according to their numerical proportions When a constituency returns several representatives the votor records also a second or third choice, according to the number of representatives seeking election A definite quota of votes is necessary to procure election, the quota being determined after the ballot, according to the number of votes polled and the number of vacancies to be filled When, on the first count, one or more candidates secure election by polling the requisite number of votes any surplus votes above the quota are apportioned among the other candidates according to the second choice shown on the ballot papers The candidate with fewest votes is declared defeated, and his votes are transferred to the next preference indicated, this probably enabling a further vacancy to be filled So the process continues, with transference of votes to next choice, until all the necessary representatives are elected

Prorogation Discontinuance of a sesroyal authority without dissolution Parliament is prorogued at the close of a session by proclamation by the king in person or by His Majesty's commission See Dissolution

Prose Form of literature in which ordinary direct language is employed Prose is distinguished from verse, the other main form of literary expression by being devoid of metre, but must have rhythm. English prose really began with Alfred the Great, who translated Bede's Chronicle Tyndale's Bible (1625), it has been well said, fixed our standard English. See POETRY

Proselyte Convert from one religion or opinion to another, originally a Gentile convert to Judaism

Prospecting Systematic search for must be versed in geology and mineralogy Geology will afford information about underlying strata, lodes, etc., as presaged by exposed sections such as cliff or river bank. Mineralogy will enable him to recognise the surface indications of buried minerals, and to identify them when reached. Apparatus ranges from the primitive divining rod, with which some claim to be able to locate hidden mineral eposits, and the magnetic needle, to delicate and sensitive electrical devices. See Mining

Prostitution Promiseuous sexual intercourse for gain by a woman known as a prostitute Regulated prostitution has existed since ancient times, and endures to day in France and elsewhere In Great Britain it is a punishable offence See Procuration

Protection in economics the supporting of home industries against foreign competition by a discriminative tariff on imported goods. The opposite of "free trade," in which foreign goods are allowed to enter untaxed. Bound up with the former system is the practice of retaliating against the protective tariffs of another country by a similar measure directed against that country. Thus the tariff can be used as a weapon or a means of bargaining. Another means of fostering and protecting an industry is by granting a bounty or state subsidy on the commodity produced. See Bounty, Free Trade, Tariff

Protector
Former English title of state
It was borne by one who
governed during the minority or absence of the
king In 1216 the Earl of Pembroke was
protector, in 1422, Humphrey, Duke of
Gloucester, in 1547 the Duke of Somerset,
and in 1549 Dudley, Duke of Northumberland
Cromwell (1653) and his son, Richard (1659),
held the office
Commonwealth
See Regent

Protectorate Country whose foreign relations are under the control of another state An example is the former Kenya Protectorate, including territories which belonged to the Sultan of Zanzibar, and were annexed to the British Crown in 1920 Existing British protectorates include those of Nyasaland, Swaziland, Somalland and Uganda.

See Mandate, Protector Group of highly complex organic substances containing carbon, hydrogen, oxygen, nitrogen, sulphur, and sometimes phosphorus The animal proteins melude albumen of the egg, fibrin and globulin of the blood, casein of milk, creatine in muscle, etc. Vegetable proteins include globulins, albumins, gluteins and prolamins in various seeds, also nucleo-proteins containing phosphorus in the cells of plants as well as animals

Protestant Episcopal Church of America in communion with the See of Canterbury, ie, the Anglican Church in America Though, as a result of the English colonisation clergy were sent out, thore were for long no bishops In 1784 Samuel Seabury was chosen bishop and came to England for consecration, although he had been previously consecrated by a Scottish bishop The church was organised as a separate denomination in 1789 There are 7299 churches and 1,859,100 members

Protestantism Faith of those who protest against the Church of Rome The name Protestants was given to those followers of Luther who protested against the decrees of the second diet of Spires (1529). The effect of the decrees was that certain privileges were withdrawn and the Lutheran or reformed church, henceforth, was not countenanced The name protestants came soon to be applied to any religious body which had separated from the Roman Church.

The main differences between Protestantism and the older Church are (a) as regards the attitude to the Scriptures, and (b) as to the sacraments and priesthood To Protestants the Bible is the supreme and ultimate anthority. The relation of the soul to God is direct and porsonal, needing no intermediary, such as a priest, and sacraments, though certain ones are recognised, are not essential to salvation See ROMAN CATHOLIC CHURCH, REFORMATION In ancient Greek legend, a deity of the ocean, the son of Posei-

don He dwelt in the Island of Pharos and tended the flocks of sea monsters belonging to his father He was able to assume any shape, and could foretell the future

Protocol Original draft of a deed or plied in diplomacy to the preliminary draft of a treaty, etc. In Scots law a protocol means a record kept by a notary containing a copy of documents executed

Protoplasm Living substance of all organisms, whether plant or animal It contains carbon, hydrogen, oxygen, nitrogen, sulphur and phosphorus in very unstable combination, constant changes taking place while it is living In its physical characters, protoplasm is a colourless, viseld, transparent or often granular substance consisting of a clear viscid portion (hyaloplasm) held in the meshes of a contractile network (spongloplasm), and embedded in it is the cell nucleus, the originating centre of all vital activities

Protozoa Lowest division of the animal kingdom Protozoa consist of unicellular organisms which in certain cases are aggregated to form colonies whose constituent cells are independent entities capable of reproducing their kind Some protozoa are ameeboid, protruding temporary portions of protoplasm for locomotion, others are flagellate, having one or a few protoplasmic threads or flagella, or ciliate, when the threads are more numerous and vibratory Most protozoa are aquatic, but one group is terrestrial

Proust Marcel French author Born July 10, 1871, he was educated at the Lycée Condorcet, and began early to write stories From 1902 he was in bad health, during which time he wrote A la Recherche du Temps l'crdu, a series of 15 vols, the first of which, Du côté de chez Swann, was published in 1913 He died Nov 18, 1922, and the last three volumes were published posthumously These were La Prisonnière (1924), Albertine Disparue (1926) and La Temps Retrouvé (1926)

Provence Former province of France Since the Revolution it has been divided up into the departments of Basses-Alpes, Vaucluse, Var, and Bouches duration An ancient Roman province, it has many relics of that empire, particularly in the neighbourhood of Arles, its old capital. It was the cradle of the mediaeval literature written in the langue d'oc, and produced some famous poets and troubadours See France

Proverbs Book of Book of the Old practical life, placed after the devotional manual, the Psalms, it comprises 1-9, a group of wise counsels, 10 22, an anthology of aphorisms in couplet form, 22-24, two collections of quatrains, 25-29, more couplets, 30 31, supplements ascribed to Agur and Lemuel, the latter embodying an acrostic describing the virtuous woman Finally welded in the post-exilic age, the whole was attributed to Solomon in accordance with the literary usage of the time.

Province Wellesley Part of Pesituated on the mainland. Great Britain annexed it in 1798 It has an area of 282 sq m, and its principal products are rice, tobacco, sugar and spices principal port Population (with Penang), (1932) 367,477.

term provost is for the head of a college

Provost Marshal Army officer ap when troops are in the field to be head of the military police With his assistants he apprehends military offenders and is responsible for executing the decrees of courts martial

Proxy One who acts for another The word also denotes the authority by word also denotes the authority by virtue of which the power is delegated Companies Acts allow provies to be used for voting at meetings of shareholders, and on such an occasion the person qualified to vote may thus appoint as his proxy another to act in his absence A prescribed form must be used for the instrument, which must bear a ld stamp Voting by proxy is allowed at bankruptcy proceedings. bankruptcy proceedings

Town of Northumberland, on Prudhoe Trudnoe the Tyne, 277 m from London and 11 m from Newcastle on the L N E Riv Pop 8921 It is in a coal mining district

Prune Dried fruit of several varieties of the cultivated plum tree. The finest grown in the Loire valley, are called French plums Grown also in Spain and Portugal Germany, California and elsewhere and eater as a dessert, they have highly nutritive demulcent and layative properties

Pruritus Skin affection, sometimes with out visible cruption, marked by intense itching It may be set up by diabetes Jaundice, dvspepsia, lice, etc. and is aggravated by scratching. When, in advancing years, the skin becomes thin and inelastic pruntus sentilioften occasions great suffering and sleeplessness

Prussia Republic of Germany, the largest and most important state of the Reich Formerly a kingdom, it grew gradually, its chief components being the Mark of Brandenburg and the State of the Teutonic Order in Prussia The real founder of the state was the Elector Frederick William the state was the Elector Frederick William (1820 1688), but it was Frederick the Great (qv) who laid the foundations of Prussian greatness by making Prussia a first-class military power The high water mark of its supremacy as a monarchy was reached under William I and Bismarck (1840 1890), and under William II Prussia remained supreme till the declaration of the republic in 1918 Thereafter it was still considered the key state of the Reich. In the disturbed conditions of of the Reich In the disturbed conditions of 1932 a temporary military dictatorship was set up by the von Papen government. The Nazis selzed the government in 1933, and in 1934 most of the powers of the Prussian legislature were transferred to the Reich cabinet

Cabinet
With an area of 114,108 sq m, Prussia
includes part of Schleswig Holstein, West
phalla, Hanover, districts once part of Saxonv
Pomerania and part of Silesia The chief
rivers are the Rhine, Oder, Elbe and Weser
The Double is rich in minerals, especially m , Prussia atein. West The chief

The republic is rich in minerals, especially coal and iron and has many large manufacturing areas Berlin is the capital West phalia is the chief industrial area and there Most of the are wide agricultural districts Baltic and North Sea ports are in Prussia There is much forest land and some trade in timber 3⊾ 75,989 Pon

EAST PRUSSIA Province of Prussia,

Provost In Scotland, the chief magistrate of a burgh He is equal in rank to an English mayor The provosts of Aber deen, Dundee, Edinburgh, Glasgow and Perth are entitled Lord Provost Another use of the term provost is to the head of a college. sisting of forest, moor, sand and bog Agriculture is the chief occupation Königsberg is the capital Area 14,304 sq m Pop 2,256,350

Prussic Acid See Hydrogyanic Acid

Przemysl Town of Poland A former Austrian fortress, on the San, it is 60m from Lwow or Lombers A former on the Besieged by Russian forces early in the Great War, the pressure was relaxed owing to Austrian successes, but with the defeat of Austrian forces on the San in Nov. 1914, the austrian forces on the San in Nov, 1914, the investment was tightened up Tamassy broke out in Dec but was driven back after four days' fighting. Attempts at relief failed, and the besieged were threatened with famine An unsuccessful sortie en masse was made on March 18, 1915. On March 22 Kusmanck the commander, capitulated and Selivanoff entered Przemys! Russia s triumph was shortlived. Austro Garman shortlived Austro German troops stormed the forts on May 30 31, and three days later Przemyal was recaptured to stay in Austrian hands until the end of the war

Psalms Book of Book of the Old Testasones" set to music, primarily for Temple use In the Hebrew Bible it constitutes five books, each torminal psalm being in doxology form Nearly halt—73—were traditionally associated with David and the whole anthology came to be ascribed to him Mostly of post-exille date, some clearly reflect the Maccabean age

Psalter Book containing the Old Testa ment Psalms, especially when printed separately or paraphrased. The Anglican prayer-book psalter contains the Great Bible version of 1539 the Bible psalter, A V or R V, is in extensive Free Church use The metrical psalms, employed in Anglican worship for nearly two centuries, still persist in Scotland. In Scotland

Psittacosis Disease of parrots, municable by in infected birds to man Outbreaks occurred in England in 1930, which were accompanied by fatal results that year and subsequently

Psittacus Afri an genus of parrots
The best known is the grey parrot, P eruthacus. The best known is the grop parrot, P eruthacus, with ashy-grey plumage and short red tall, ranging from the Guinea coast to Lake Nyasa. Assembling in large flocks by day and feeding on palm nuts and other fruits it makes no nest, 24 eggs being laid in the bottom of a hole both parents sit alternately. A familiar cage bird in Europe for centuries, often long lived, its remarkable power of repeating words is shared by both sores. BOXES

Psoriasis Skin affection marked by flat patches covered with silvery white scales Its cause is unknown It may appear in childhood and persist for years or disappear spontaneously, recurrence being common The ellows and knees are first affected, and it may spread to the scalp and other regions

Psyche In classical mythology a beau tiful maiden the favourite of Cupid. Cupid was sent to cause her to fall in love with the meanest of mortals, since Aphrodite was envious of her beauty Cupid, however, became enamoured himself Parted by the jealous wiles of her sisters Psyche set out in search of her lover, finally, after long travels, finding him again She was made immortal and the lovers were reunited. See Cupid

Psychical Research Systematic investigation into phenomena, regarded as appertaining to the spiritual sphere In 1882 was founded the Society for Psychical Research, whose object is the investigation of apparitions, huntings, clairvoyance, spiritualistic manifestations, etc. The society's address is 31 Tavistock Square, Bloomsbury, London, W C 1

Psycho-analysis Method devised by for exploring mental processes and investigating basic motives. It utilises dreams as a means of investigation, Freud's theory stating that these are a manifestation of wishes and desires buried in the unconscious, and generally have to do with repressed images, thoughts, etc., which assert themselves—often in an altered form—during sleep. Freud says that if such buried complexes can be brought to conscious ness the mental conflicts between conscious and unconscious which produce neurosis and other troubles, can be resolved and the patient cured. According to the Freudians, the majority of buried complexes are related to suppressed sexual urges. See DREAM, FREUD, JUNG

Psychology Science of mental phenomena It investigates psychical processes or states and the conditions under which they arise Its main methods of approach are introspection and inference The first is "looking within," the second infers from the actions of others the mental processes giving occasion to them Another line of study is the examination of the mental life of others, eg., the child from infancy to adult life Social psychology deals with the mental

Social psychology deals with the mental phenomena of communities, industrial psychology with the special problems of factory life, etc., comparative psychology deals with the behaviour of animals as compared with

Behaviourism, a development of the latter, sought originally to explain behaviour as a product of reflexes—responses to stimuli—independent of consciousness

Psychotherapy Treatment of discontinuous Mainly employed for so called functional nervous disorders now regarded as mental in origin, its technique includes suggestion, with or without hypnotic sleep, autosuggestion as advocated by Coué, persuasion as practised by Dubois, and psychological analysis, including the special form, psychoanalysis, elaborated by Freud (q v)

Ptarmigan Game-bird of the grouse family (Lagonus mutus)
About 15 in long, it differs from the red grouse (qv) in having feathered feet and assuming nearly white winter plumage, with black outer tall feathers It ranges over Scottish moors above 2500 ft, laying 8-10 buff eggs in rough ground-nests, it becomes tame during the nesting season

Pterodacty 1 Anv member of the extinct order of flying lizards found fossil in mesozoic rocks from the Lower Liassic to the Upper Cretaceous in England, Europe and N America Long-tailed or tailess, large headed, wide mouthed, toothed or toothiess, with flexible necks, they had smooth bat-like membranes extended by the enormously elongated "little finger" of the

She was made fore-limbs, the other fingers being short claws re reunited. See They were more or less bird-like, with hollow bones, varying from the size of a sparrow to a 25-ft wing spread

Ptolemy Name of a dynasty of Egyptian kings (305 BC-AD 40) The first, named Soter, a general under Alexander, became satrap of Egypt on Alexander's death in 323 In 305 he took the royal title Notable for his building of the library and museum at Alexandria, he was a patron of literature and science He abdicated in 285 His son and successor, Philadelphus (308-246 BC), also fostered the arts Ptolemv III (Euergetes), son of the last named, became king in 246 He made great conquests from Selencus The legitimate line ended in 80 BC, when Ptolemy X was assassinated, the crown going to a natural son of Soter II (Ptolemy VIII) He was named Auletes, or the flute player Auletes' son, Philopator, succeeded in 51 BC, reigning jointly with his sister, Cleopatra, as Ptolemy XIII On his death by drowning in 47 BC, his younger brother became Ptolemy XIII and reigned also with Cleopatra The last two kings of the dynasty were son and grandson of Cleopatra, Ptolemy XV. dying in a D 40 See Cleopatra

Ptolemy Egyptian astronomer and geographer, Claudius Ptolemaeus
He was at Alexandria, A.D 127-51, and embodied his learning in a work of 13 volumes
which became known by the Arabic name of
Almogest His system, the Ptolemaic, represented the earth as the fixed centre of the
universe, the sun, moon, other planets and stars
revolving about it from E to W in separate
zones.

Ptomaine Basic substance formed in a nitrogenous organic tissue during putrefaction Ptomaines of animal origin, formerly classed with vegetable poisonous alkaloids, pertain to various classes of chemical compounds, not necessarily noxious In popular usage cases of poisoning by meat, etc., are loosely attributed to ptomaines, although some at least arise from disease-producing bacteria.

Public Health Term used for the munity as a whole The various councils employ medical men, sanitary inspectors and others, and the Ministry of Health has a large staff Their duties are concerned with infectious diseases, sanitation, supplies of food and drink, infant mortality and kindred matters There is in London an Institute of Public Health at 37 Russell Square, WC1, which carries on educational work including research

Public Prosecutor Legal official, rector of Public Prosecutions He takes action on the instructions of the Attorney-General, e.g., in 1929 the prosecution of C G Hatry and his associates Sometimes facts come to light in legal proceedings which make it desirable for the judge to send the papers to the Public Prosecutor, who has an office at 1 Richmond Terrace, Whitehall, London, S W

Public Trustee Public official appointed in 1900 to act as executor and trustee Any one can name him as the executor and trustee of a will, thus obtaining the security of the State against fraud He charges a regular scale of fees The offices are in Kingsway, London, W C 2, and there is a branch office in Parsonage Gardens, Manchester

Publishing Business of preparing after the breeding season. Common on the early publishers were also booksellers and in the 18th century books were published by a number of booksellers jointly, each taking a certain number. In the 19th century the two businesses became separate Edinburgh be came a great publishing centre, but after a time the pre-eminence, as far as Great Brittsin was concerned, passed to London Leiprig is another city famous as a publishing centre and books are published in most of the university towns

versity towns

Some publishers confine themselves to a particular branch of literature, eg, medical books, while others are general publishers. With the aid of readers their business is to decide which of the manuscripts submitted shall be published by them. They must then arrange for the printing of the books choson, for their distribution to the trade and for the processary publish.

necessary publicity
PUBLISHING AS A CAREER—The staff whose duty it is to select and prepare manu scripts for the press is usually recruited from the universities, the production departments are usually reached after a period of apprenticeship

The necessary qualifications are a wide general knowledge and some literary and artistic taste with potentialities for developing quickly a full knowledge of the technicalities of the trade and a sound judgment on the commercial value of contemporary literature On the whole the sales side offers the most

promising monetary rewards

Puccini Giacomo Italian composer Born Doo 3, 1858, at Lucca, he studied at Milan and achieved his first success with the opera Manon Lescaut (1893) and La Bohème (1896) brought him fame Of his Of his other operas the two best known are La Tosca In 1911 (1900) and Madame Bullerfly (1904) he came to London to superintend the production of his Girl of the Golden West His last opera, Turandot, was produced in 1926 at Milan He died Nov 29, 1924

Pudsey Borough of Yorkshire (WR.), from London, by the LNE Rly Hore are metal and textile works. Pop (1931) 14 762

Puerperal Fever Notifiable dis caused by septic infection of the womb, etc Formerly responsible for many deaths, it has been largely prevented by modern aseptic methods, and by the employment of trained midwives and maternity nurses. It is still a very serious problem, however, as there has been little decrease in its incidence in recent years. Fever is the warning sign, usually appearing about 3 days after childbirth though it may occur much earlier. it may occur much earlier

Puff Adder Repulsive venomous viper Clotho arietans), distributed over nearly all Africa The large flattened head and thick body, 4 5 ft. long, are covered with longitudinal rows of scales, mottled brown above and greyish white be neath When irritated its indrawn breath, visibly swelling the body, gradually escapes Bushmen smear the venom on their arrow tips

Puffin Genus of sea birds of the auk family (Fratercula) The common puffin, F arctica, 12 in long, has black and white plumage, reddish feet, and brilliantly coloured bill neu orange and bluish-grey, with horny sheath like plates which moult

Pug Dog Breed of toy dog Of the miniature buildog, it was introduced from Holland and much estcemed throughout the 18th century Victorian Lugland produced the modern strains

Pugin Augustus Welby Northmore English architect. Born March 1, 1812, he became an architect, helped to propare a large series of drawings of European Gothic build ings and was enthusiastic for the revival of the Gothic style in England He helped to design the new Houses of Parliament at West-minister, in 1837 43, and designed for the Roman Catholic Church the cathedral of S George in Southwark, those at Nottingham, Killarney and elsewhere, as well as Farm Street Church, Berkeley Square, London. He died Sept. 14, 1852

Pulborough
Parlsh and market town of Sussex It is on the Arundel road, 46 m from London, near the confluence of the rivers Arun and Western Rother Originally a Roman fortress on the road from Regnum to Londinium, it still bears traces of Roman occupation.

Pulham Market Village of Norfrom Becoles and has an aerodrome with a mooring mast for airships Near is Pulham St Mary Both villages are served by the St Mary LNE Rly

Pulley Mechanical device for lifting heavy objects. It consists of a grooved or flat rimmed wheel (sheave) free to rotate upon an axle or pin fixed in a block or frame and over which a cord passes to a weight By securing one end of the cord to a beam and passing it around a system of pulleys a mechanical advantage is obtained in the decrease of the power required.

Pullman George Mortimer American in ventor He was born in 1831 and entered the building trade. The first Pullman sleeping car was built in 1863, after which he designed the corridor train and the modern restaurant car He died Oct. 19, 1897 In 1880 he founded a model town on the outshirts of Chicago for his employees, and called it Pullman This was eventually made part of Chicago

Pulpit (L pulpilum, a stage) In ancient Rome a section of the stage reserved for the actors From this followed the raised and enclosed structure used in the Christian church for the delivery of sormons Pulpits are constructed of wood, usually carved and decorated, or stone or marble Notable examples of marble are in the cathedral of Siona and the baptistry at Pisa Of out-door pulpits an example is in the quadrangle of Magdalen College, Oxford

Pulse Intermittent distention of the walls of an artery. It is caused by changes in blood pressure due to the heart's action. The sudden distention of the arter when blood is expelled from the heart is conveyed in lessening degree to the arteries, and where an artery is near the surface, for example, the radial artery, the pulse can be easily folt although its frequency varies with agre, so, and other factors. are, sex and other factors.

Puma (Felis concolor). Large American to Patagonia. Called the American lion, panther or painter, catamount and cougar (q v ), pantier or painter, catamount and cougar (90), it measures 3½ ft. with 2 ft. tail. The head is relatively small and maneless, with flesh-coloured nostrils, the tail dark-tipped and untufted, and the uniformly tawny fur darker along the back and paler beneath

Pumice Light spongy form of volcanic glass It is usually a greyish, froth-like scum formed on molten lava by the froth-like scum formed on molten lava by the abundant escape of vapours and rapidly solidified. Mostly imported from the Lipari Islands, it is a useful polishing and smoothing stone, powdered and mixed with soap it makes a metal-polish.

Pump Machine used for raising water or for drawing out or forcing in air. The simple specified pump willies air pressure and consists.

suction pump utilises air pressure and consists of a cylinder or barrel in which a piston freely moves by the action of a lever or handle, and is provided with a valve opening upwards in the piston head and another lower down in the barrel to ensure the pump being air tight This type is used for wells and similar purposes To overcome various mechanical difficulties a double-acting plunger pump or one having two buckets or piston heads is often employed. Rotary pumps worked by revolving wheels, discs or fans are used extensively, one type being the centrifugal pump, the principle involved being that of a reversed turbine action In another type the liquid is acted upon by gas, steam or compressed air

Pumpkin (Cucurbita pepo) Trailing annual herb of the gourd order, presumably indigenous to W Asia Each plant bears male and female flowers reparately, the latter developing into the fruit, sometimes weighing 80 lb and more. Cultivated in antiquity, and introduced into Tudor England, its varied forms, including vegetable marrows, are widely grown in continental Europe, N America and elsewhere

Punch Alcoholic beverage In theory it should contain five ingredients, the origin of the name being the Hindu word meaning five The particular brand of punch meaning live The particular orang of punch is decided by the spirit which is the main ingredient It may be rum, whisky or brandy To this are added spices, fruit juice, sugar and hot water

Punch British journal It was first published on June 17, 1841, and was announced as an illustrated weekly. The editor's chair was occupied by Mark Lemon for many years, and his successors have included Shirley Brooks, Sir Francis Burnand and Sir Owen Scaman On the artistic side and Sir Owen Scaman On the artistic side the staff has numbered such well-known names as Tenniel, Leech, Phil May, Claude Shepperson, Sir Bernard Partridge and many others. Its scope is social and political satire, literary and dramatic criticism and general humour It has been invaluable to historians of the period during which it has been published

Punchinello Traditional figure of the Commedia dell' Arte
He has something in common with Harlequin
He wears a black mask and a large nose, is a braggart and a rogue, with a rough, country wit. Punch of the Punch and Judy show derives his name from the same source, which probably means short and fat

Punic Wars See CARTHAGE.

Punjab Province of India. It occu-pies the NW angle of the Northern plain The name is derived from two Northern plan The name is derived from two Hindustani words meaning five rivers, the rivers in question being the Suilej, Chenab, Ravi, Beas and Jhelum. It has an area of 99,222 sq m and a population of 23,580,851 The province is divided into five divisions Amballa, Jullundur, Lahore, Rawalpindi and Multan Agriculture is the main industry and the principal copys are wheat and healer. the principal crops are wheat and barley

Pupa Zoological term for the resting stage in the metamorphosis of many insects. At the end of the larval period the insect undergoes changes in external form, followed by moulting, the pupa taking on characters approaching those of the perfect insect. Most pupas are quiescent, but loco-Zoological term for the resting stage insect Most pupae are quiescent, but loco-motion occurs in some aquatic types such as the gnat

Pupil Circular opening in the middle of the eye immediately in front of the crystalline lens. It regulates the amount of light entering the eye, contracting in a strong light and enlarging in darkness or in focusing distant objects

These changes are also the strong makes are also the strong makes are also the strong makes are also than the strong makes distant objects These changes are also brought about by the action of drugs such as opium or belladonna, the former contracting and the latter dilating the pupil.

Purbeck Peninsula of Dorset 12 m long, it lies between Poole Harbour and the English Channel with the River Frome on the W Swanage and Corfe Castle are on the peninsula, which is famous for its marble, really a limestone used for paving It was once a royal forest China clay is mined

Purcell Henry English composer Born in London about 1658, he was a chorister at Westminster Abbey, and his early writings included overtures, anthems and masques In 1680 he became organist at the Abbey and devoted himself to the composition of sacred music His Te Deum and Jubilate, written in 1694, are outstanding Other notable works are the masque of Timon of Athens, and the opera, Dido and Aeneas Purcell died in London, Nov. 21, 1695, and was buried beneath the organ in Westminster

Abbey
Purchas Samuel. English writer Born
Purchas about 1575 at Thaxted, Essex,
he was ordained in the Church of England,
and from 1614-25 was rector at St Martin's,
Ludgate Hill, London He died in 1626
While in London Purchas obtained some of
Hakluyt's manuscripts and from these and
other sources compiled Purchas his Pilyrimes
or Hakluytus Posthumus, described as A History
of the World in Sea Voyages and Land Travels
by Englishmen and others It was first published in 1626 lished in 1626

Purfleet Seaport of Essex It stands on the LMS Rly It has a small harbour and facilities for storing oil

Purgatory Place or state, according to Roman Catholic belief, in which souls after death are purified from venial which souls after death are purified from venial sins and otherwise rendered fit for heaven The Roman Catholic doctrine, formulated by Gregory the Great, and confirmed by the Council of Trent, recognises a purging by fire, which may be mitigated by the proyers and alms of the faithful. The Orthodox Eastern Church more vaguely recognises an intermediate state of tribulation. Protestant Reformers as a body rejected the doctrine Purification Religious term It is used to denote the ritual cleansing enjoined by Judaism as well as other religions to secure the moral purification of the worshipper In Judaism the four main types of ritual uncleanness demanding purification were connected with food, leprosy, childbirth and death The Purification of the Virgin Mary (Luke II, 22) is commemorated by the Church on Feb 2

Jewish festival Secular rather Purim than religious, it commemorates the national deliverance from the plot of Haman (qv) It occurs about a month before the Passover, on 14th and 15th Adar, preceded by the Esther fast Present giving, formerly the burning of effigies of Haman, and other carnival incidents, contribute to the festivities

Puritans Name given in Elizabethan England to advanced Protest ant clergy who advocated stricter manners and simpler worship than generally obtained after the severance from Rome It came to embrace both tolerationists and men who sought to enforce their opinions and ways of life upon others, even to regulating their pleasures. The Puritan spirit long prevailed in New England.

Purley District of Surrey from London Purley District of Surrey It is 13 m from London and has two stations, Purley and Purley Oaks, on the S Rly It forms part of the urban district of Coulsdon and Purley See Coulsdon

Thick yellowish white fluid, abounding Pus in dead white blood-corpuscles and disease germs Produced by inflammation, it is discharged by abscesses, ulcers, granulated surfaces and open wounds

Edward Bouverie English divine Born at Pusey, in Berkshire, Aug 22, 1800, the son of a landowner, he was ordained in the Church of England and later became Professor of Hebrew and canon of Christ Church, Oxford He died Sopt 16, 1882 Puscy is regarded as the founder or restorer, of the High Church movement in the Church of England Its principles are contained in his sermons and writings including The Doctrine of the Real Presence and one of the Tracts for the Trmes

Pusey House in St Giles, Oxford, is a centre for students of theology

Push Ball American game Invented in 1894, it was originally played by two sides on a field about 150 yds long by 50 yds wide, with a large rubber ball 6 ft. in diameter The object was to push this ball into a goal 18 ft. high by 20 ft. wide

Pushkin Alexander Sergoyevitch Russian poet. Born May 26, 1799 of wistocratic family, he was educated at Tsar skoye, Selo He published poems, but his first notable success came in 1820 with Ruslan and Lyudmila Boris Godunov was published in 1825, Pollara in 1828, and in 1832 came his autobiographical poem, Eugène Onegin More than once his opinions caused clashes with the authorities He died Jan. 29, 1837, from the authorities a wound received in a duel

Putney District of London, in the borough of Wandsworth It is situated on the Thames, and is largely residential, being served by the District Rly and a suburban branch of the S Rly Putney Heath is a fine open space adjoining Wimbledon Common Close to Putney Bridge station is the Hurling ham Club Pop 28,240

Putty Plastic mixture of linseed oil and whiting used for glazing windows and filling holes in woodwork. Plasterers' putty is a fine cement of lime and water

Putumayo River and territory of Colombia, S America The river, navigable for 700 m, is a tributary of the Amazon, which it joins near Sao Antonio The territory belongs partly to Leuador and partly to Bayer Mosco is the control.

partly to Peru Mocoa is the capital
Here, in 1909, official enquiries into the
treatment of native labourers in the rubber plantations of a British company led to punish ment of the offenders by the Peruvian govern

ment Pwilheli Borough, seaside resort and market town of Caernarvon shire It is 21 m from Caernarvon, 266 m from London by the G W Rly, and is situated on Cardigan Bay It has a good beach There is fishing and a little shipping Pop (1931) 3599

yaemia Form of septic poisoning It is caused by the absorption of organisms into the blood stream from an open wound or infected organ This is followed by the formation of numerous abcesses, accompanied by rigors, high temperature, profuse perspiration and a condition of extreme exhaustion

Pygmalion In Greek mythology a king of Cyprus who fell in love with an ivory statue he had made prayed to Aphrodite to grant life to the His prayer being granted he married statue the maiden Another Pygmallon was brother of Dido, and slew her husband

by Homer for an Ethiopian folk apparently known through travellers' tales. The pygmy races nowadays comprise specifically Asiatic Negritos and African Negrillos, measuring 4 ft 11 in down to 3 ft 6 in and even lower

See DWARF, NEGRITO

Pylon Messive towers flanking the entrance to temples and other buildings in ancient Egypt These towers, of greater beight then the cotavary sloped upwards and height than the gateway, sloped upwards and their surfaces were covered with carved hioroglyphic inscriptions. They usually had a narrow staircase leading to the top

To-day the name is given to supports of bracing wires in aeroplanes and to the structures carrying electric cables across country

Pylorus Greek word, 'gate keeper," the stomach The stomach's muscular coats the stomach at the pyloric end are strengthened by thick muscular fibrous bands which contract while a meal is being digested, and at varying intervals relax passing the semi fluid chyme into the small intestine for further digestion See DIGESTION

Pym John English statesman and patriot Bym Born at Brymore Somerset, in 1584, he entered Parliament in 1614, assisted in Buckingham's impeachment in 1626, supported the Petition of Right in 1628, led the Short Parliament of 1640 and the impeachment of Strafford in that year, and shared in the Grand Remonstrance in 1641 He was one of the five members who escaped arrest by Charles I, was interested in colonisation and for many years schemed for the settlement of Connecticut He died Dec 8, 1643

Property 2 Discharge 1

Pyorrhea Discharge of pus, specifically gums surrounding the necks of the teeth. It is associated

with inflammation of the gums, softening of the bony socket and loosening of the teeth The diseased condition is fostered by stagnation of the mouth's natural self-cleansing processes and the deposition of tartar. It may be avoided by systematic care of the teeth, including rubbing, brushing and scaling, the use of a mouth wash, the due consumption of

regetables and fruit, etc

Pyramids The Ancient Egyptian monure built of stone with polygonal or square base and sloping sides meeting at the apex Built as royal tombs, with a hollow chamber bride for the egyptians appears about 70 have been inside for the sarcophagus, about 70 have been discovered, and 16 identified They stand in the desert a few miles east of Cairo Among the most famous are the three great pyramids of Gizeh A fourth pyramid was discovered here in 1932 The largest of all the pyramids is the pyramid of Cheops, dating from the 4th Dynasty It measures 755 ft on each side, is 451 ft high and covers 13 acres It is estimated that in its construction 6 000 000 terms mated that in its construction 6,000,000 tons of stone were used, and 100,000 men employed for 20 years, with mechanical aids which still remain a mystery

Pyramids Game similar to billiards It is played with 15 red balls placed at the top of the table in a triangle The two players use the same white cue-ball alternately, the winner being the one who pockets the greater number of red balls

Mountain range dividing 'vrenees France from Spain 270 m long and the highest point is Pichethon or Maladetta, 11,168 ft. Various minerals are or Maladetta, 11,168 ft. Various minerals ar found—silver, lead, copper, lignite, iron, etoand have been worked since classical times. The Garonne rises on the N side, and the Aragon, Noguera, etc., on the S. Popular resorts in the Pyrenees include Pau, Lourdes and St. Jean de Luz, and other places of interest are the famous cirques, or great basins hollowed out by water

Pyrethrum Gardeners' several c name composito ennial herbs of the chrysanthemum genus when ranked as a sub-genus The common golden feather of gardens is a yellow-leaved variety of feveriew An ornamental large-flowered garden species from Asia Minor, sometimes double, is akin to forms grown commercially in Dalmatia and Japan for the insect-killing pyrethrum powder

Pyrheliometer Instrument for mea-of solar heat In Angström's pyrheliometer the solar radiations are received on a blackened platinum strip connected with another similar strip heated by electricity These are joined to a theumo-couple and the amount of current required to give equality of temperature is proportionate to the solar intensity

Pyridine Colourless liquid obtained by fractional distillation of coal tar and bone tar. Its strong basic properties

tar and bone tar Its strong basic properties form a series of salts with acids and substitution products with halogens. It bolls at 115 deg. C. and is unattacked by boiling nitric and chromic acids. It is used in the denaturing of alcohol Pyrites Minerals containing sulphide of iron (Iron pyrites) or sulphides of copper and other metals. Iron pyrites is a brass yellow hard mineral crystallising in cubic forms and important as a source of sulphuric

contains nickel, while mispickel contains arsenic. Copper pyrites, an imported copper ore, occurs in yellow tetragonal crystals or in massive form

Pyrography Art of producing designs on wood by charring the surface with heated metallic points. In its simplest form it is called "poker-work" (q v)

Pyrometer Instrument for measuring high temperatures above those registered by ordinary thermometers especially with regard to the fusion of metals, the firing of bricks and pottery ware One form, Seger's cones, consists of specially blended clay cones which soften at certain temperatures Rods of porcelain, iron or platinum also are used for rough estimation of thermo-electric couples of platinium and iridium or palladium cased in porcelain give better results temperature, but electrical devices such as

Pyrrol Liquid constituent of coal tar of chloroform, and is obtained by fractional distillation. It has secondary basic properties and from one of its derivatives, potassium-pyrrol, by the action of iodine and an alkali, an anticential used in medical and an alkali, an anticential used in medical and an alkali, and anticential used in medical and an alkali, and anticential used in medical and an alkali, and alkali, alk an antiseptic used in medicine known as odol is obtained

Pytchley English hunt It was founded about 1750 in Northemptonshire and the succeeding Earls Spencer have been closely associated with it. The country stretches from Market Harborough to Northampton, and the kennels are at Brigstock In 1874 the Woodland Pytchley was established to hunt part of the Pytchley country

Pythagoras Greek philosopher Born at Samos about 582 B C he lived there for a time, but afterwards moved to Crotona There about 539 he started a school to Crotona Tound him an enthusiastic band Greek philosopher Born and gathered round him an enthusiastic band of followers The central idea of his philosophy was that number was the first principle of the universe, and on it depended the harmonies which keep the universe in ordered motion and create music and art Pythagoras was also a mathematician, and is believed to have first discovered the principle laid down in Euclid's ferrous 47th perpentition. famous 47th proposition

## Pythias See Damon

Python In Greek mythology a serpent generated from the mud left by the deluge of Deucalion It inhabited Mount Parnassus, where it was killed by Apollo The Pythian games of Greece are supposed to have celebrated this victory

Python Genus of non-venomous snakes of the boa family, inhabiting tropical Asia, Africa and Australia Both jaws are fully toothed, the prey, up to small goats in size, is orushed by the snake's powerful in size, is crushed by the snake's powerruncils and swallowed from the head downwards Dwelling in trees near water, pythons include the largest of all snakes except anacondas Averaging 10 to 20 ft., the netted python of Indo-China and the rock-snake of India and Coylon sometimes attain 30 ft The female incubates her eggs

Pyx in Roman Catholic usage, a vessel employed, since the 9th century, for holding the consecrated bread of the Eucharist, of copper and other metals. Iron pyrites is a brass yellow hard mineral crystallising in cubic forms and important as a source of sulphuric acld and iron sulphute. Marcasite is a rhombic form of iron pyrites, paler in colour. Pyrrhotine when reserved for administration to the sick or for adoration. The name is also given to a chest holding representative gold and silver coins struck at the Royal Mint, awaiting the form of iron pyrites, paler in colour.

-BOAT Torm used during the Great War for a ship designed to decoive and destroy hostile submarines. Dis gulsed as merchant or fishing vessels, they were armed with hidden guns, and carried a fighting orow

Quadragesima Latin meaning fortieth" It denotes the 40 days' Lenton fast before Easter The first Sunday in Lent is called Quadragesima Sunday

in Lent is called Quadragesima Sunday
Quadrangle In plane geometry a
closed figure contained
by any four straight lines such as a rectangle,
rhombus, etc, and particularly to one in
which the sides and angles are equal The
term is also applied to a rectangular court
yard surrounded by buildings
Quadrant Mautical instrument for
for determining altitudes by taking angles
It has been superseded by the sextant It
consisted of a graduatod brass limit in the
form of a quarter of a circle with usually a
plumb line to mark the zero during an ob
servation servation

In mathematics, the pro Quadrature In mathematics, the process by which a square-is found, exactly or approximately, having its area equal to that of a given figure A famous example is that of "squaring the circle In astronomy the term is applied to the position of a heavenly body in relation to another 90 degrees distant

Term military science for a group in Ouadrılateral of fortresses arranged more or less at the corners known example was the quadrilatoral formed by the fortresses of Mantua and Peschiora on the Mincio and Verona and Legnano on the Adigo in N Italy

Dance for four couples The dancers stand in a Ouadrille square hence the name, which comes from the Italian squadra, a square The dance was introduced into the French ballets of the 18th

century.

Quadroon Word of Spanish origing meaning quarter blooded, origin denoting the offspring of a mulatto and a white In early Spanish America, before negro immigration began it denoted the offspring of an American Indian half breed and a white it is sometimes applied to other similar racial crossings also in plants and animals

Quaestor Official in ancient Rome His early duties were to in vestigate cases of murder and to carry out sentences on the criminals In republican times the duties of the office were chiefly financial, the quaestors being the keepers of the public treasury

Racial variety of the (qv) The light red of the zebra ght red upper Quagga Racia parts boro irregular chocolate brown stripes, gradually fading to the hind quartors, with white underparts. Reaming over S African plains S of the Vaal river in immense herds a century ago, it was indiscriminately slaugh tered by the Boers for its hide, and for half a century has been extinct

Genus of small Old World game-birds of the pheasant family Ouail (Coturnix) The migratory quali (C communis), 74 in long, more or less regularly visiting Britain in spring, lays 7 12 blotched, creamywhite eggs in ground hollows, sometimes remaining through the winter Vast numbers, orossing the Mediterranean in spring and autumn, are netted for food in S Europe

Quake Grass or Dodder Grass) Genus grasses (Briza) natives of temperate Europe, Asia and Africa Slender stalked many flowered pyramidal clusters bear large com pressed fremulous spikelets The common quake grass, B media, and a smaller one with tuited stems, grow wild in Britain The tall B maxima is much cultivated in gardens for decorative uses

Colloquial name for a member Quaker of the Society of Friends was given to them in derision soon after the founding of the sect in the 17th century See Society of Friends

The quaker bird is another name for the

sooty albatross

Quamash Genus of perennial herbs of the lily order (Camassia), natives of NW America. The best known, C esculenta 13 ft high, produces stoutexementa 13 it high, produces stout-stemmed spikes of 10 20 blue 2 in flowers. Pure white and other forms are grown in gardens for house decoration—the buds open after the stems are cut American-Indians use the bulbs for food

Quantity Surveyor Surveyor who grantity Surveyor who a builder quantities, measurements and costs from a plan prepared by an architect. He must have sufficient knowledge of architecture and the building trade to interpret

Plans and estimate the labour required

Quantocks

Range of hills in N Somerset, extending for about

8 m to the coast of the British Channel near Watchet The highest point is 1260 ft high

Quantum Theory Theory in physics Certain experimental results in the study of radiation could not be explained theoretically according to Newton's dynamical laws Planck suggested that from such radiating bodies energy was transferred in separate quantities of definite magnitude, which he called 'quanta' The development of this theory has led to the modern conception of atomic structure

Quarantine Preventive detention, origi-ships persons and goods, arriving from a country where certain infections diseases precountry where certain infections diseases prevalled Of Venetian origin, directed specifically against plague during the Black Death, and later against cholera and yellow fever, the period and regulations varied It is now mostly superseded by concerted international action, and in England by the British Public Health Act, 1904 Isolating imported dors for a defined period, usually 6 months, is popularly called quarantine

Quarry Bank Urban district of Stat-centre, it is a mile from Dudley, and has iron-

works Pop (1931) 8100

1031

QUEBEG

Quarrying Excavation of stone from an open pit. The methods adopted vary chiefly according to the position and hature of the stone, but usually the excavation is made on the side of a hill Where possible the planes of bedding or joint planes are used for removing the blocks but in some rocks where these do not exist, the use of wedges and blasting is employed to loosen the material

Quart English measure of capacity It is two pints and is the quarter of a gallon In music the interval of a fourth is

called a quart.

Quarter Measure of weight and capacity is used for the fourth part of a hundred-weight (28 lb) Quarter is also used as a measure of wheat, a quarter of English wheat being 504 lb As a measure of capacity it is equal to eight bushels. The fourth part of a year is also a quarter; and the periods of the moon are known as quarters. moon are known as quarters

Quarter Day Four days in the year other liabilities are due In England and Ireland they are March 25 (Lady Day), June 24, Sept. 29 and Dec 25 In Scotland the quarter days are Feb. 2, May 15, Aug 1 and

Nov 11

Quartering In heraldry, the bearing of two or more coats of arms on a shield It usually denotes a marriage The arms are divided by horizontal and perpendicular lines At one time in persons were Austria and elsewhere, not elegible for certain distinctions unless they could show 16 quarterings

British Quartermaster Army, a quarter master is an efficient warrant officer or CO under whose care are the stores, rations and In the

equipment

Naval quartermasters are petty officers who, in harbour, act as night-watclimen, and during the day see that the orders of the ship's company are carried out. At sea the quartermaster either takes the wheel himself, or supervises the seaman who is doing so

Ouarter Sessions in England a court of law held four times a year Each county has one or more quarter sessions [The judges are the makistrates for the county, and the cases are those that are sent on to them from the courts of petty sessions Certain cities and towns also have a court of quarter sessions which is presided over, by the recorder

Quarterstaff Weapon for hand-tohand encounters popular in England down to Commonwealth times A stout pole, 61-81 ft long, sometimes fron-shod, was grasped by the left hand about the middle, and by the right a quarter from the

lower end

Quarto Page of a certain size, also a Duarto book of pages of that size In it the sheets are folded into four, and its sign is 4to To-day book publishers recognise as quarto foolscap, 8½ in × 6½ in , crown, 10 in × 7½ in , demy, 11½ × 8½ in , royal, 12½ in × 10 in and imperial, 15 in × 11 in

Quartz Widely distributed mineral consisting of silica and forming a constituent of sands and many rocks It occurs in masses or as crystals forming hexagonal prisms and pyramids having a vitreous lastre and great hardness. Quartz is colourpublic buildings, parks, etc., Beyond, the

less (rock crystal) or white, yellow, brown or violet. Many varieties are cut as ornamental stones. Rock crystal is used for spectacle lenses, fused quartz for chemical and physical apparatus

Quassia Bitter wood employed chiefly a Surlnam tree of the simarubi order, Q. a surinam tree of the simaruba order, Q. amara Surinam quassia being still used in France and Germany, the allied W Indian bitterwood, Picraena excelsa, superseded it after 1809, and is known as Jamaica quassia. The infused chips provide a tonic, vermifuge and hop-substitute

Quaternary In geology the group of strata of most recent age. It is sometimes referred to as Post Tertiary. The deposits vary much in charage Tertiary acter, and for the most part are unconsolidated Ther include alluvium of present rivers and lakes marine deposits, also cave deposits marine deposits,

and glacial or drift formations

Quaternions in mathematics a calcu-ous geometrical and dynamical problems in physics and engineering From the point of ylew of geometry it concerns operations with rectors or quantities possessing magnitude and illrection, and the changes of one vector into another It was invented by Sir W R Hamilton about 1853

Quatrain In poetry a stanza of four lines The lines usually rhyme alternately as in the hymn by Isaac Watts, "O God, our help in ages past" The stanzas of Tendyson's "In Momoriam," are also called quatrains, although in these the first and the last lines rhyme, as do the two middle ones

Quatre Bras Willage of Belgium 19 on June 16, 1815, two days before the Battle of Waterloo, the Dutch and Belgian troops, part of Wellington's army, were attacked by the French under Ney British troops advanced to assist their allies, and after a hard fight succeeded in beating back the French

Quatrefoil Architectural term for a window or panel formed of four lobes, or segments of a circle projecting at a tangent from the inside of a circle and meeting at points or cusps

Quaver Musical note equal to half a crotchet or one eighth of a semi-breve As a pulse-note it is symbolised by 8

in the lower half of a time-signature

Quay Landing-place on the side of a river, harbour or docks, for receiving and discharging cargoes from ships Usually a quay is provided with cranes and other appliances for handling goods and betthing vessels Quays are constructed of beithing vessels Quays are constructed of stone or concrete with generally a facing of wooden piles

City and seaport of the province Quebec of Quebec, Cadada; the capital of the province It stands on the north shore of the River St. Lawrence, 180 m from Montreal, on & tableland rising to 333 ft. above the river Founded by Champlain in 1608 on the site of an Indian settlement, Quebec was taken by the English in 1639, restored to the French in 1632, and held by them till its capture by Wolfe

oradel are the Plains of Abraham (qv) where Wolfe defeated Montcalm (qv) Notable buildings are the Château Frontenac Hotel, the citadel, the Roman Catholic Cathedral (1647), Laval University, the provincial Parlia ment House and the Hotel Dieu, founded in 1639

The city has a fine harbour, deep enough for the largest ships, with a government grain elevator New wherves have been constructed at Wolfo's cove It is served by both C P and C N Rlys, the former crossing the St Law rence by the great Quobec Bridge, completed in 1917 Pulp and paper manufacture is the chief industry, but machinery, cutlery, ropes steel, etc., are also made. The city is well ote, are also made supplied with hydro electric power It sends four members to the federal House of Commons Pop (1931) 129.103

Quebec Province of Canada It covers 594,434 sq of the River St Lawrence Part of it is fertile but much is a vast and almost uninhabited tract of land between Hudson Bay and Lab rador Quebec is the capital but Montreal is the largest city The inhabitants are largely

Roman Catholics of French descent

Quebec, or Lower Canada, is the oldest settled part of the country From 1791 to 1841, it was a province under British rule In 1841 it was united with Upper Canada and in 1867 it became a province of the Dominion It is governed by a legislature of the beautiful and the content of the country with the content of the country with the content of the country with th Dominion It is governed by a legislature of two houses with a ministry responsible to it It sends 65 members to the House of Commons at Ottawa In 1912 a great district in the N called Ungava was added to the province, which also includes the island of Anticosti It produces wheat, barley, milk and butter, as well as fish The forests supply vast quantities of pulp for paper and its mines furnish the world with subsetce. Page 1(331) 2874 285 the world with asbestos Pop (1931) 2,874,255

Queen Official title of the wife of a reigning monarch A queen has unique privileges, and has a household of her own Her personal expenses are paid from the king's privy purse and she is crowned with solemnities similar to those used for a king The queen dowager is the widow of the de ceased king, and retains most of her privileges The queen mother is the mother of the reigning king, and a queen regnant is a sovereign princess reigning in her own right with all the powers of a king, whose husband is her subject. The only queen regnant at present in Europe is Queen Wilhelmina of Holland, who succeeded to the throne in 1890

Queen Anne Style English archi artistic convention In the decorative arts, re straint and simplicity are the dominant notes of the 'Queen Anne Style," superseding the of the 'Queen Anne Style,' superseding the baroque extravagance which preceded it Ornament was now deliberately subordinated to design In furniture this tendency is specially marked, curvillnear principles being sedulously exploited with an unrivalled senso of symmetrical balance Contemporary silver shows a fine recognition of the value of plain Architecture remained predomi surfaces nantly Palladian See Palladio Andrea), the Italian villa was the model for the English country house But a vernacular style of building based on Jacobean tradition is no less characteristic of the period

Anne's Bounty Queen Property belonging to the Church of England

to a living, paid a tenth of his first year's income to the pope. After the Reformation income to the pope After the Reformation these sums were paid to the Crown In 1704 Queen Anne handed over this income to the Church of England, and s nce then it has been known as Queen Annes bounty and used to increase the value of poor livings. In time the income became smaller as first fruits ceased to be paid in meny cases, and now the payments have almost ceased a process helped by legislation passed in 1926 The fund however, still possesses considerable capital and has an office at 3 Dean's Yard Westminster, London, S W

Queenborough Borough and scaport lists of Sheppoy where the River Swale falls into the Medway 2 m from Sheerness, on the S. Rly. There are chemical and coment industries and oyster fisheries Pop (1931) 2941

Queen Charlotte Is Group of the coast of British Columbia belonging to Canada, 130 m from Vancouver Graham Island is the largest. Coal and other minerals are mined and there is some fishing

Queen Charlotte Sound separates the main land of British Columbia from Vancouver

Island

Queen Mary Land District of Antarctica.
It lies to the E of Kaiser Wilhelm Land and on it are the Denman and Northelife glaciers.
It was explored and named by Sir Douglas District of Mawson in 1911 14

Marquess of Scottish Jueensberry title held by the family In 1633 William Douglas Lord was made Earl of Queensberry, of Douglas Drumlanrig and in 1682 his grandson, William, was made a marquess In 1683 he was made a duko In 1810, when the 4th Duke of Queensberry died, the dukedom and the estates passed to the Duke of Buccleuch, and the marquessate to Sir Charles Douglas, who became the 5th marquess. The 5th marquess a pated south marquess The 8th marquess a noted sportsman, was responsible for the Queensberry Rules which govern boxing contests The oldest son of the marquess is called Viscount Drumlanrig

Queensbury Urban district of York shire (WR) about 4½ m E of Bradford and 196 from London, on the LNE Rly Here are textlin milia the LNE Rly Here are textile mills collieries and stone quarries Pop (1931)  $(\bar{1}931)$ 5763

Queen's County old name of the Irish Free State now known as Leix (qv)

Queensferry Burgh and port of W to the Firth of Forth, 9 m from Edinburgh, on the LNE Rly Here is one end of the Forth Bridge, and near are Dalmeny House and Hopetoun House Queensferry is so called because the forry here was used by Queen Margaret Pop (1931) 1798

North Queensferry is a small watering place and fishing port on the N or Fifeshire side of the Firth of Forth

Queensland State of NE Australia Originally part of New South Wales, it became a separate colony in 1859 It has a legislative assembly of 02 mem bers, under a governor, lieutenant governor and executive council of ministers 'I ropical in the Property belonging to the Church of England N, it is cooler in the S, where considerable At one time every person, on being appointed agricultural development has taken place principal exports are wool sugar, dalry products and meat Much of its prosperity is due to the boring of artesian wells Mining and forest produce are important

Brisbano, the capital, is connected by rail with the chief contres and with New South Wales Area, 670,500 sq m Pop 963,711

Queenstown Urban district, scaport and market town of Co Cork. Irish Free State Under the Free Cork, Irish Free State Under the Free State the name has been changed to Cobh a state the name has been changed to Cobh a rariant of the older name Cove of Cork It is on an island in Cork Harbour, 13 m from Cork, and is served by the GS Rivs Queenstown is a yachting centre, and was a naval station—It is best known as a calling place for the Atlantic liners, but has been less used to this cornective circus the Coret West. used in this capacity since the Great War Pop 7077

Queenstown Town of Cape Province, S Africa, 154 m. from F London The town is laid out in the shape of a hexagon with the market place in the centre Wheat and wool are produced in the neighbourhood Pop 12,800

Queenstown Town of Tasmania about 110 m N W of

Hobart Situated on Queen River, its industries are connected with copper-mining and timber-felling Pop (1931) 2590

Onern Simple handmill for grinding

Quern Simple handmill for grinding rattern, an oval grinder rubbed upon a saddle-shaped, stopped and a saddle-shaped, stopped rubbed upon a saddle-shaped rubbed rubbed upon a saddle-shaped rubbed rub shaped stone, developed into a pair of flat discs, the lower stone being rimmed, with a central pin passing through a funnel shaped hole in the peg-rotated upper stone, through which the grain was poured The water-mill which the grain was poured superseded it.

Questionnaire Set of written questions sent out usually to obtain information about the cost of living, housing conditions and other social matters. The census paper may be described as a questionnaire and the method has been used by the BBC

Quetta Capital of British Baluchistan It came into prominence when Sir Robert Sandeman founded his Presidency Sir Robert Sandeman founded his Presidency here (1876), and grew in 25 years from a dilapidated group of mud buildings into a strong fortress and military centre. The Indian Staff College was opened here in 1907 in 1935 a great carthquake devastated the Baluchistan valley and completely destroyed the city of Quetta. The death-roll numbered more than 40,000

Quetzal Mexican name, "green-feather"

Pharomacrus mocinno, a tropical picarian Pharomacrus mocanno, a tropical picarian bird ranging from Guatemala to Panama About magpie size, the crested male is handsomely plumaged in brilliant metallic green, with deep blood red underparts, the middle two tail coverts, prolonged 3 ft. beyond the tail, were formerly ruthlessly collected for European millinery Frequently represented in ancient Maya art, the bird appears in the arms of the Guatemala republic, and gives its name to the local dollar its name to the local dollar

Quiberon French town on the S coast L'Orient Two famous battles were fought near here On Nov 20, 1759, when the French were preparing an invasion of England, Hawke attacked and defeated the fleet under Conflans In 1795 French emigrant Royalists

The chief industry is stock raising and the who had been landed here by a British fleet. were defeated here by the republican leader, Hoche

Quicklime Commercial name for cal calching chalk or limestone, the carbon dioxide being driven off in the process It is very infusible, but when moistened crumbles to a white powder (slaked lime), giving off considerable heat It is a valuable dressing for clay soils and is used in making mortar and cements Slaked or hydrated lime is employed in making lime-water and in tanning and sugar industries Lime is used also for purifying coal gas and sewage

Quicksand Bed of loose fine sand particles often mixed with clay or calcium carbonate, and saturated with water Quicksands occur usually at river mouths or along the seashore, and in some glacial deposits

Quicksilver Common English name for metallic mercury on account of its extreme mobility and resembblance to the colour of silver Sce MERCURY

Quietism Religious movement mystical character I It swept over France, Italy and Spain during the 17th Its most famous devotees were and Madame Guyon Quietism contury Fénelon stressed the importance in religious experience of a purely passive state of contemplation which had no place for the positive exercise of thought and will

Quiller-Couch Sir Arthur Thomas English writer Ho was born in Cornwall, Nov 21 1863, and educated at Clifton and Trinity College Oxford, where he became a lecturer in classics He wrote Dead Man's Rock while there After doing journalistic work in London he settled in Fowey and wrote a purple of Control of the Control of atter doing journalistic work in London at settled in Fowey, and wrote a number of Cornish Tales and several volumes of critical articles, including Studies in Literature in three series. He published several volumes of poetry, and is famous for his anthologies of English verse, among them The Golden Pomp and The Oxford Book of English Verse, and for his lectures as Professor of English Literature. at Cambridge, a post to which he was appointed in 1912 He was knighted in 1910 and is familiar as "Q"

Quillwort Genus of stemless rush-like vascular cryptogams, Isoetes chiefly found in N temperate and warm regions chiefly found in N temperate and warm regions Merlin's grass I lacustris, inhabiting subalpine lake bottoms in Britain and elsewhere, have a filbert-sized corm producing a tuft of 10-20 rigid awl-shaped tubular leaves whose bases partially sheathe the spore-capsules. A subaquatic species common in S Europe inhabits Guernsey marshlands

Quince Genus of shrubs and small trees of the rose order, Cydonia akin to the pear indigenous to Asia The common quince. C vulgaris, of Persian origin, anciently cultivated in the Levant, and introduced into Tudor England, bears yellow astringent pear shaped or apple shaped truits, used for flavouring other cooked fruits or for table iellies See Japonica

Quincunx Arrangement of five objects so placed as to occupy each corner of a square or oblong, with one in the middle it is used commonly for thespacing of trees in an orchard so that the trees in one row are opposite the spaces between, those in the next row

Quinine Chief alkaloid contained in other dues A perpetual rent charge is called rous and bitter tasting crystalline salts, more or less water soluble, especially sulphate, hydrochloride and hydrobromide, are used

Outside A perpetual rent charge is called a quit rent in the United States

Outside Don Horo of Cervantes' mock hydrochloride and hydrobromide, are used

Renowned Don Quixote de la Mancha (1805–15) niedloinally as a tonic, sometimes combined with others, for allaying neuralgia, and pre-eminently for treating malaria. The an moniated tineture is a favourite household remedy for mild feverish attacks See PERU VIAN BARK

Quinoa Annual herb of the goosefoot digenous to the Pacific slopes of the Andes Its clusters of minute green flowers produce small, rounded flattened fruits whose nutritious meal is made locally into porridge and cakes It is sometimes cultivated in Great Britain for its leaves, a good spinach substitute

Quinquagesima Latin word mean ing "fittleth' It denotes the Sunday next before Ash Wednes day, once called Sprove Sunday It occurs 50 days before Low Sunday

Quinsy Acute tonsillitis or inflammation of the tonsils Treatment includes garding with hot antiseptic fluids and applications of hot fomentations Incision is frequently necessary

Quintain Upright post surmounted by a crossbeam, used for knightly and popular exercise throughout medieval Europe It was either a fixed target against which horsemen and footmen broke a lance or pole or rotated on a pivot one end provided with a sandbag or other device for striking the unskilful tilter behind

Quintal Measure of weight, originally quintal denoting 100 libras, as in pro revolutionary France, and still surviving in Spain It also denotes various standards in Spain It also denotes various standards in Portugal, Greece Egypt and some parts of Spanish Amorica The metric quintal, weigh ing 100 kilograms or 220 lb is the common unit of measurement for grain, etc, in metric using countries

Quitinal One of the seven hills of Rome It lies to the NE and the name is taken from Cures, once a town of the Sabines The King of Italy has a palace here and the Quirinal is used as a synonym for his court

Quito Capital city of Ecuador Situated about 114 m from the Pacific coast it occupies a basin in the Andes about 9350 ft above sea level The buildings, mainly of sun dried brick are of a Spanish type, and include the Jesuits' church with a finely carred façade, the cathedral and the government palace The city has a university and cleven monastic institutions the convent of San Francisco being among the largest in the world Exports include hides and forest products Wood and high standard The city has two broadcasting stations (52 5 and 47 M) Pop (1932) 104,000

Quit Rent Yearly payment formerly of tenants on English manors It was so-called because it freed the tenant from all

He figures in the story as a misguided devotes of chivalry, who imagines himself to be a knight-errant and goes forth on his adventures, knight-errant and goes forth on his adventures, clad in a suit of home made armour, riding his battered steed, Rosinante, and attended by his squire Sancho Panya He has become a universal figure, representing the type whose lofty idealism falls to achieve success in a

world which does not share those ideals

Quoin Corner stone at the angle of the

Quoin wall of a building, especially in
later Saxon work, where flat slabs or quoins alternate with long vertical blocks The term is applied also in printing to a blunt wedge used to secure the type in a forme

Quoits Pastime consisting in throwing flattened iron rings at a distant mark Patronised by curling clubs in Scot land, Canada and the USA, and by Midland and Lanashire working mens quoiting clubs it is played on two 'ends 18 yards apart each having a metal pin or hob driven in Fach player throws two 9 lb quoits from end Fach player throws two 110 quois from the to end, seeking to ring the hob or to pitch nearest play is then reversed, as in bowls Deck quoits are played with rope rings.

English hunt. The name is

Quorn English hunt. The name is taken from the village of Quorn don in Leicestershire The hunt was estab lished in the 18th century, and some of the most famous hunting men, among them Hugo Meynell and the Earl of Lonsdale, have been among its masters. It is regarded as the oldest in England The kennels are at Barrow on Soar and Melton Mowbray is the chief centre

Quorndon Urban district of Leicester It is 2 m from Loughborough, and is a hunting centre Pop (1931) 2603

Quorum Minimum number of persons necessary to constitute a meet ing In public companies and societies the articles of association or the rules, state the number necessary for a quorum. In the House of Lords it is 30 and in the House of Commons 40. In some legislatures notably the Congress of the United States a quorum is a majority of the members. The word is Latin for of whom."

Quota it refers to a proportion, at present 15 per cent of home grown wheat to be used by millers under the terms of the Wheat Act in making flour The farmer subsequently receives the difference between the current price for wheat and a standard, at present 45/ per

qr, fixed for a vear

In post war commercial treaties it signifies also quantities of essential commodities for which export and import licenses are issued respectively by the countries concerned lumigration quotas, based on the acceptability of the nationals of certain races as immigrants, have been established in the USA and else where Great Britain has a film quota estab lishing the proportion of British films which must be shown

Name of the sun god of the Egyptians He was represented with the head of a hawk, at as crossing the sky in a ship plendid temples were erected Raceme flowering in which the blossoms Α Egyptians He was represented with the head of a hawk. and as crossing the sky in a ship Splendid temples were erected in his honour The chief seat of his worship was Heliopolis (On) in the Delta From the fifth dynasty the name Ra was included in the

title of each Egyptian king

Rabbi Honorary title for the scribes after Herod's day Applied to learned persons pronouncing on questions of law and ritual, the New Testament mentions Christ as so addressed by his disciples and the common people It designates and the common people It designates modern Jewish clergy and sometimes by courtesy eminent Jewish scholars The word is Hebrow for "my master"

Rabbit (Orycolagus cuniculus) Burrowing robbit for inexpensive clothing Domestication has wrought remarkable changes in weight, form and colour, cg, the Angora and lop eared breeds Game laws regulate rabbit shooting, but impose no close time

Rabelais François French born at author Chinon about 1483, and was successively a Franciscan, a Benedictine monk, a teacher at Mont-pellier, a professor of anatomy, and a priest at Meudon His friendship with the Cardinal, at Meudon His triendship with the Carumai, Jean du Bellay, had a great influence on his life, and he went to Rome at different times to visit his friend He is the author of Gargantua, and of Pantagruci, books of monumental interest written between 1532 64 They are original and powerful in style, and produces the condition and absorptions there underneath the crudities and obscenities there is a great love of humanity and a passion for justice and true culture He died on April 9, 1553

Rabies Infectious disease due micro organism, causing tΛ rabid madness in numerous menmals, including dogs, cats, wolves, horses, etc, and communicable in the saliva by a bite See Hydro-VIGORA

Raby Castle Residence of Lord Bar-nard It is in Durham, 5 m from Barnard Castle, and dates in the main from the 16th century A splendid pile it was the seat of the Duke of Cleveland until that title became extinct in 1891

Raccoon (Procyon) Genus of American mammals related to bears The common grevish N American tree-dwelling "coon," P lolor, 24 in long with 10-in ringed tail feeds by night, habitually dipping its prev into water before eating Its flesh is edible, and its fur much used for coonskin caps. A larger crab-eating species inhabits S America

Race Group of persons animals or cately fantastic work is familiar to all bookword may denote all mankind, a primary division, eg, the yellow race, or a smaller Radcliffe Market town and urban district of Lancashire It is

are borne in a cluster with each flower on a short and equal lateral pedical attached to a central stem, as in the currant

Rachel Biblical character A daughter of Laban, she became the wife of Jacob after he had served Laban for her for two periods of seven years, and had married her elder sister, Leah She had two sons, Joseph and Benjamin, and she died when the latter was born

Rachmaninoff Sorgei Russian Vassilievitch and pianist He was born at Nijni-Novgorod on April 2, 1873 He received his musical education at the St Petersburg and Moscow Conservatoires, and won a gold medal with his opera Aleko in 1892 He made several concert tours, and in 1903 was conductor of the Imperial Opera He conducted the Moscow Philharmonic Symphony Orchestra, 1912-13 After the Russian revolution he escaped to Sweden, and eventually settled in America. He has written operas symphonies, piano concortos, and many smaller piano works, of which composer

certos, and many smaller plane works, of which the Prelude in C sharp minor is most famous.

the Prelude in C sharp minor is most famous. His remniscences were published in 1934

Racine Jean French dramatist He was born at La Ferté Milon (Aisne), in Dec., 1639 and went to the Solitaires' School at Port Roval He began to write tragic plays in 1664, with La Thébaide and Alexandre in 1665, followed by Andromague in 1667 His best known play is Phèdre, which, owing to his enemies, was a com-In 1867 His best known play is Pheare, which, owing to his enemies, was a commercial fallure, and he returned to the influence of Port Royal In 1689, when Madame de Maintenon asked him to write a play for her girls' school at St. Cyr, he wrote Esther, and in 1691, Athahe He died on April 21, 1600 1699

Racketeering American expression arising out of the development of "gangs," and applied to the practice of gangsters, who, by means of threats of violence which they are able, and quite presented the carry out over the carry out of the carry ou pared, to carry out, extort money from those trading legitimately In roturn, the traders are allowed to carry on business more or less peacefully, even receiving a measure of protection

Rackets

Ball game plaved on walledin courts, very similar to fives
courts

The game, plaved by two or four
persons, consists in hitting the ball against
the end wall, above a certain line, with the
racket, which differs from the tennis racket
in being much lighter and having a round
head about & in in diameter. The construction head about 8 in in diameter. The scoring is similar to that in fives, but the game is very The scoring is much faster

Rackham Arthur English artist He and educated at the City of London School and Lambeth School of Art He is best known as an illustrator, in which department his delicately fantastic work is familiar to all book-

8 m N.W of Manchester, and is 194 from London by the LMS Rlv In a coal mining district, the town stands on the Irwell, and has cotton and associated industries and chemical works Pop (1931), 24,674

Radcliffe John English physician, Oxford and MP Born at Wakefield, in Oxford and MP Born at Wakefield, in 1650, he studied medicine at Oxford He then began to practise and having settled in London, was physician to William III, and the two queens, Mary and Anne He died at Carshalton Nov 1 1714 Radelific left his money to Oxford University

where his name is perpetuated in several ways The university has its Radeline Library, and the city the Radeline Infirmary There are Radeliffe travelling fellowships for students of medicine The university observatory is called the Racine Observatory because it was built from money left by Radcliffe It was erected between 1772 and 1795

Radiation forms of energy given of from substances and transmitted through space These radiations include light, heat, X rays and the various emanations emitted spontaneously from radio active substances

According to Planck's Quantum Theory, radiation is not a continuous wave process but a discontinuous one in which separate minute units of energy are emitted in pulsa tions, the amount of energy in each unit or quantum being dependent upon the frequency of the radiation

Radical Term in chemistry applied to elements that enter into the formation of com pounds, and pass from one compound to another without disintegration, but do not exist as a separate entity Examples of radicals are the hydrocarbon radicals, methyl, agetyl and ethyl, also ammonium and cyanogen

Radical Name of a political party. It came into use late in the 18th or early in the 19th century and was applied to those who believed in radical reforms. The radicals became a wing of the Liberal Party, and as such they remained until the Great War, when their place was taken by the Socialists A radical may be described as more advanced than a liberal but less so than a socialist In some matters, however, in dividual liberty for instance, the radical and the socialistic ideas are opposed.

Radio-activity Quality of emitting radi ations having great penetrating power Sub stances such as radium, uranium, thorium actinium and their compounds emit radiations

actinium and their compounds emit radiations having the power of penetrating opaque objects, and of acting upon a photographic plate in the dark, also of ionising gases and producing luminosity in certain substances

Becquerel, in 1896, observed the effect of uranium salts upon a photographic plate, and these investigations were followed by the discovery of radium, actinium and the radio active properties of thorium Three types of radiations are emitted known as allpha rays or positively charged hellum alpha rays or positively charged helium utoms, beta rays or negatively charged particles, and gamma rays or electro magnetic impulses.

of penetrating certain substances opaque to light, but are stopped by other dense substances such as the heavy metals. A radio graph of the hand will show the bones and an embedded metal as distinct shadows

Rad10logy medicine in 1895 Röntgen discovered that X rays passing through human tissues could be used photographically to differentiat between easily penetrable tissues and bone This has proved of exceptional benefit in many branches of medical science, while the extern of the way on eartist tissues. while the action of the rays on certain tissues has formed the basis of radio-therapy

Radiometer Instrument invented by Sir William Crookes for measuring the radiant energy of light and heat It consists essentially of four thin glass arms or discs of glass or mica on alu minium arms placed horizontally and pivoted so as to rotate freely in a partially exhausted glass vessel. The rate of movement indicates the strength of the radiation

Radish (Raphanus) Genus of annual Radish or biomial cruciferous herbs natives of Europe and temperate Asia Cultivated anciently in the Mediterranean region, and introduced into Tudor England the garden radish R sativus, has an agreeably pungent fleshy root long and tapering olive shaped or turnip shaped, usually whitish or reddish, and is eaten uncooked as salad

Radium Radio active element having the symbol Ra and atomic weight 225 95 It was discovered in 1898 by Madame Curio Curie It is silver white in colour, but rapidly decomposes in the air into the hydroxide, and is present in pitchblende, carnotite and other ores associated with unnium from which it is derived by atomic disintegration Radium compounds are used extensively in surgery in the treatment of certain diseases and commer-

cially in luminous paints for watch dials, etc RADIUM THERAPY Methods of healing in which radio active substances are employed Two main methods are in use (1) the intro duction of such bodies into the blood, and (2) local application of radiation The curative action of radium emanations may be derived from radium or its product radon The latter is applied as an inhalation or taken in solution With the former, a minute quan tity of a radium salt enclosed in a platinum tube or needle is used. It is successful with many malignant growths but not all forms of cancer

Radius Term in geometry for a straight line drawn from the centre of a circle to the circumference and equal to half the diameter A radius vector is a straight line drawn from any point in the curve of an ellipse to a focus

In anatomy the radius is the smaller of the two bones in the forearm. Its slightly curved shaft is articulated to the wrist by its larger head and to the elbow by a button shaped head having a rotatory movement

Town of Hertfordshire Radlett is 15 m from London, on the It is a residential district for Some industries have been LMS Rly Londoners established here

Radley Village of Berkshire. It is on the GW Rly The college, founded in Village of Berkshire. Radiograph Term given to an image of an object obtained by lucans of the X rays which have the power a memorial gatoway Pop 1074 Radnor Village of Radnorshire It is 7 m from Presteigne on the little River Somergill There are ruins of a astle and a guildhall, as the place was a hartered town from 1561 to 1883 It is alled New Radnor to distinguish it from

And Nation to Ostinguish it from 21d Radnor, a village about 3 m away. The title of Earl of Radnor was borne by the family of Robartes from 1679 to 1757. In 1765 William Bouverie, 2nd Viscount Folkestone, 2 wealthy Huguenot, was created Earl of Radnor His son, Jacob, took the name of Pleydell-Bouverie and the title is still held by his descendant. The estates are now the property of Viscount Clifden, a kinsman. The seat of the present earl is Longford Castle, near Salisbury, and his eldest son is called Viscount Folkestone.

Radnorshire County of Wales The smallest in the land, it covers 471 sq m. Presteigne is the county town, other places are Rhavader, Llandrindod Wells and Knighton The rivers are the Wve and its tributaries, including the Elan, the Arrow and the Ithon In the contre is the district called Radnor Forest The chief occupation is farming, and sheep-rearing is an important industry Pop (1931) 21,324

ration is farming, and sheep-rearing is an important industry Pop (1931) 21,324

Radstock Urban district and market town of Somerset It is 16 m from Bristol on the GW Rly It is the centre of the Somerset coalfield, and the chlef industry is coal mining Pop (1931) 3622

Raeburn Sir Henry Scottish portrait Raeburn painter He was born at Stockbridge, Edinburgh, on March 4, 1756 He was first apprenticed to a goldsmith, but taught himself to paint, and was helped by David Martin, a leading Edinburgh portrait painter He painted the Countess Leslie, and married her, and together they visited Rome, where he studied for two years Raeburn was the chief of a virile school of painting then growing up in Scotland, and was made R A in 1815, and knighted in 1822 His best-known portraits are those of Lord Newton Dr Alexander Adam, his wife and Mrs Robert Bell He died on July 8, 1823

Raemakers Louis Dutch cartoonist He was born at Roemond, Holland, on April 6, 1869, educated in Amsterdam and Brussels, and at the outset of his career, painted portraits, posters and landscapes He drew his first political cartoon in 1908, but his fame was made by his anti-German cartoons, during and after the Great War

Raffia Work Handicraft comprising useful and ornamental articles made with the split leaves of raphia palms and similar bast-like substances Used for manual training, recreation and profitmaking in blind institutions, kindergarten schools, military hospitals, etc., the material, generally dyed is fashioned like straw-plait into bags and hats, or worked on frames into baskets, boxes, etc

Raffles Sir Stamford English administrator He was born at sea off Jamaica, July 5, 1781 From a clerkship in the East India Company he rose to the appointment of lieutenant-governor of Java on the conquest of that island by Lord Minto in 1811 He held that post till 1816 and was lieutenant-governor of Sumatra from 1818-23, being responsible for the purchase of Singapore (1819) He died July 5, 1826

Rafter Term in architecture for an inclined beam forming part of the support of the roof of a building in the Middle Ages rafters were of oak, but in the 17th century foreign deal came into common use Open timber roofs with various methods of arranging the rafters were characteristic of mediacyal English architecture

Ragged Robin Perennial crimson flowered wild plant (Lychnis flos-cucult) of the plank family. It is a slender herb growing about 1½ ft. high and common in Gt. Britain

Ragged Schools Name given to schools formerly existing in Great Britain, as voluntary agencies for the education of destitute children Their originator was John Pounds, a Portsmouth shoemaker, who for 20 years prior to his death in 1839, taught a number of needy children as he sat at his work. The work of the Ragged School Union is now carried on by the Shaftesbury Society.

Raglan 7 m from Monmouthshire It is GW Rly It is famous for its castle, now in ruins During the Civil War it was defended by the Marquess of Worcester on behalf of Charles I

Charles I
Ragian Fitzroy James Henry Somerset,
Ragian Lord British soldier He was
born on Sept 30 1785 In 1807 he served on
Wellington's staff in the Copenhagen expedition
and in 1812 he was his military secretary in the
Peninsular War He lost his right arm at
Waterloo In 1816 he was Secretary to the
Embassy at Paris, and sat for Truro in Parliament in 1818 and 1826 being created a barron
in 1827 He was Commander-in Chief in the
Crimean War, and was blamed unjustiv for
the soldiers' privations in 1854-55 He died
June 28, 1855

Ragout French dish It consists of meat stowed with horbs and vegetables and seasoned to taste. The word comes from the Fr ragouter, to restore the appetite

Ragwort Perennial composite herb (Sencero jacobaca) The stems
1-1 ft high, with much-divided leaves, bear dense clusters of bright-yellow rayed flower-heads

Raikes Robert. Founder of Sunday schools He was born at Glourester Sept 14, 1735, the son of the printer and proprietor of the Gloucester Journal, and carried on his father's business In 1780 he started a Sunday school, which taught the poor children of the town to read and to learn the catechism The Sunday School movement attracted great attention and spread over England in Raikes' lifetime He died April 5, 1811

Rail shore-birds, land-rail and water-rail now extended to all members of the numerous and cosmopolitan rail family The common European water-rail (railus aquaticus), 111 in long, short-tailed and long-legged, is distinguishable from the land rail by its long red bill It haunts British marshlands, sometimes migrating southwards for the winter, and lays 7-10 spotted creamy-white eggs in reed-built nests

Railway Permanent road, or way, on which locomotives and the rolling stock drawn by them can travel A railway or railroad has a line or lines of rails fixed to ties or sleepers, and laid to gauge,

usually on a levelled or graded roadbed The power employed is either steam or

clectricity

The first railways were rough constructions designed only for carrying coal wagons drawn by horses or ponics The invention of steam by horses or ponies The invention of steam made it possible for the steam locomotive to replace the horse, and, this having been introduced in 1804, the next step was to lay lines that could be used for purposes other

than the cartage of coal
The first railway line was opened between Stockton and Darlington in 1825, and during the next 50 years many thousands of miles were laid all over the world Steadily the lines were improved and greater speeds were attained. The locomotives increased in size and power and the accommodation for the passengers passed from rude open warons to comfortable carriages, with dining and other accessories that are reminiscent of a good hotel Increased engineering skill made it possible to drive tracks through mountains and over marshes until Europe was covered with a very restrict of relieves the great Continuent with a network of railways the great Continents of Asia and America were crossed by them, lines crossed the Andes, and in Africa reached, with but a single gap, from Cairo to the Cape To meet the traffic problem of the great cities overhead and underground railways were made, and lines serving the London suburbs and other districts, where short distance traffic was nocessary, were electrified
In Great Britain the large number of railway

companies that arose in the 19th century were gradually reduced until there was only a small number, most of them large organisations with headquarters in London, such as the Midland, Great Western, Great Northern, London and North Western and Great Eastern Scotland had the Caledonian, Glasgow and South Western North British and other lines The opening of the Great Central Line was the last important addition to the country's

railway mileage POST-WAR DEVELOPMENTS ST-WAR DEVELOPMENTS During the War the Government took control of the railways, and this was retained until 1923 To effect economies in working expenses it was decided that the lines should be formed into four great groups, and these were duly constituted The groups are the Southern, Grat Western, London, Midland and Scottlish and the London and North Eastern The Southern includes the London and South Western and other lines in the south of England The Great Western is composed of that line The Great Western is composed of that line and of the Cambrian and others in Wales The L.M.S. consists of the Midland, London and North Western, Lancashire and York shire and all the important Scottish lines except the North British. The L.N.E. includes the Great Factors, North Except Caret

except the North British The L N is mediates the Great Eastern, North Eastern, Great Central Great Northern and North British The British rallway companies are still controlled to some extent by the state and special legislation has been passed for them The control is exercised by the Ministry of Theorems, Theorems of British British Pates Tribunal Transport There is a Railway Rates Tribunal to fix the rates which they may charge for the carriage of goods and there is a national waze board for the fixing of wages

The mileage of the British railways in 1933 19 822 and the receipts were over The Unite l States has 258,465 £169 000 000 miles Some countries cg, France Germany and Canada have state-owned railways, and proposals for nationalising the British lines have been made The Irish railways, excluding

those serving Ulster have been amalgamated

into one organisation, the Gt. Southern Rlys
Road competition has seriously affected the
receipts of the railways, which have fallen
very considerably since 1923, leading to
reduced dividends and serious declines in the

reduced dividends and serious declines in the value of rallway stocks A scheme for electrification of the main lines, at a cost of 2261,000,000, was put forward in the report of a committee which met in 1929 30. The chief unions of rallway employees are the National Union of Railway clerks as the National Union of Railway Clerks Associated Society of Locomotive Engineers and Firemen and the Railway Clerks Association There is in London a railway clearing house for adjusting business between the various companies

various companies

The standard gauge for British railways is 4 ft. 81 ins, and this has been accepted over a good part of Europe and in the United States. Australia, however, has different gauges, as have India, Iroland Russia and other countries The world's fastest long distance steam train runs from Newcastle to London, on the L & N E line This first all stream lined train, completed in 1935 is called the Silver Jubilee and travels the 268 2 miles cach day at an average speed of 67 mp h Engineering has made it possible for rall-

ways to reach greater heights and there are funicular and rack railways up a number of mountains, these being specially constructed and carrying passengers only The greatest heights reached are across the Andes in Peru where there are at least four lines that reach 15,000 ft.

Rain Name given to the fall of condensed atmospheric vapour in drops of water owing to the lowering of the temperature below dewpoint Condensation first results in the formation of minute drops which float in masses forming clouds and as the process continues these drops coalesce, forming larger drops, whose weight causes them to fall as rain

Rainbow Name given to the coloured arch seen in the sky away from the sun when rain is falling during sun-It is due to the reflection and refraction of light in the raindrops causing the breaking up of the white light into the seven colours of the spectrum in varying degrees of intensity, according to the size of the drops. Sometimes a second or even third bow in fainter colours may be seen in brilliant sunshine

Rainfall Term applied to the general precipitation of rain over an area including also the fall of snow and hail. The study of rainfall forms an important branch of meteorology, observations being carried out as to the amount of precipitation and its seasonal and local variations as well as to the causes determining the rainfall in as to the causes determining the rainfall in particular districts. A continual circulation of vapour occurs between the terrestial waters the atmosphere and moisture laden winds from the sea blow over the land, the vapour being carried up into the colder upper air, where it condenses in clouds and finally in rain

Rainford Urban district of Lancashire Rainford It is 4 m from 8t Helens and is a junction on the L MS Rly Around are coal mines and stone quarries and the town has some manufactures. Pop (1931) 3494 has some manufactures.

Rain Gauge Meteorological instru-ment for measuring the rainfall. A rain gauge usually consists of a cylindrical copper vessel, containing a funnel for catching the rain and a bottle or other form graduated in inches of rain

Rain-making Causing rain to fall forms the object various rites and ceremonies among primitive peoples, when the rainmaker is often an important individual Attempts have been made to cause precipitation of vapour as rain by the use of gunfire, or by scattering chemicals and other substances from aeroplanes, but with no

appreciable success Raisin Dried ripe truit of certain white varieties of grape, used for dessert, cooking or wine-making Sun-dried on the vine, spread on the ground or dried by artificial heat, raisins come from S E Spain, and are collectively called Malaga raisins, including muscatels and pudding-raisins, from Smyrna, including elemés and seedless sultanas, from Provence, Calabria, Australia and California See CURRANT

Rajah Hindu name for a prince or king It is still used for a ruler in India, eg the Rajah of Tripura, but a number of the more important ones are called maharajah, or great prince. It is also used in Malaya and Borneo The word raj means rule

Rajput Hindu word meaning "the son of a king" It is applied to the ruling race of the State of Rajputana, to which it bives its name

Rajputana District of India It is bounded on the west by Sind, on the north by the Punjab, on the east by the United Provinces The Arvalli Mountains running across the country separate the fertile land to the SE from the sandy and ill-watered region to the NW Politically, the district is a collection of 21 Indian states, under an agent to the Governor-General The population in 1931 was 11,225,712, of whom only 620,000 actually belong to the Rajput race The chief language is Rajasthani.

Raleigh Sir Walter. Elizabethan ex plorer and writer He was born near Sidmouth about 1552 After fighting in Ireland he became first favourite of Queen Elizabeth In 1584 a fleet sent out by him to America founded the new colony of Virginia, which he failed to establish

Raleigh was supplanted in the Queen's favour by the Earl of Essex in 1587 and went to Ireland, but was restored to favour until Elizabeth discovered his intrigue with Elizabeth Throgmorton, when he was imprisoned In 1596 his advice gained England the triumph of Cadiz. Raleigh was condemned to death for treason, but was instead imprisoned in the Tower, where he wrote his *Hustory of the World* and *A Discourse of War* In 1616 he made a disastrous expedition to the Orinoco in search of gold and an his return was condemned to of gold, and on his return was condemned to death, apparently for fallure, and beheaded on Oct 29, 1618

Ramadan Ninth month of the Mohammedan year, invested with special sanctity by the Koran and observed by faithful Moslems as a period of fasting During this period strict abstinence is enjoined during the hours of daylight from food, drink and

of receiver The contents are emptied at 29th, after some hard fighting, captured the regular intervals into a measuring glass, remains of the army and entered the town In the engagement some Indian regiments did splendid service

Rambouillet Town of France It is famous for its château, the country residence of the President of the Republic, formerly used as a residence by Napoleon It stands in a large park and has beautiful gardens

Rameses I made a treaty with the Hittles, and expanded Egypt as far as the Wady Halfa

Rameses II, called "the Great," defeated the Hittites, and married their princess He conquered Ethiopia, and established a fleet on the Mediterranean He lived about 1322 BO

Rameses III, made war on the Philistines, and the tribes of the coast of Greece and Asia Minor, and again conquered Ethiopia
Ram1e Name of Malay origin for the bast fibre of a stingless methe.

(Bochneria tenacissima,) called in Assam rhea This is a variety of B nivea, the source of China-grass One or other now grows in the S parts of Africa, France, England and U.S.A. The fibre serves for incandescent

Ramillies Village of Belgium It is famous for the battle fought here, May 23, 1706 An English and Dutch army under Mariborough met a French one under Villeroi. The first English attack was indecisive, but the battle was won through the genius of Marlborough, and the French compelled to give up the whole of the Spanish Netherlands

Rampant Heraldic term denoting an attitude of beasts of prey in armorial charges, standing on the left hindleg, the others being upraised, the right fore-leg above the left, the head sideways, and the tail upwards Should both hind legs be aground it is salient. Full faced is rampant guardant, looking backwards is rampant reguardant See LION

Rampion Name of several perennial herbs of the bellflower order, natives of Europe and W Asia (1) The genus phylcuma, with many garden forms, especially rock-plants, includes the British P spicatum, formerly cultivated for its edible tuberous rootstock (2) campanula rapunculus, also British, has a spindle shaped, fieshy root, and is grown for the table, especially in France

Ramsay Allan. Scottish poet He was born, Oct 15, 1686 and first came into prominence by writing some additional cantos to an old Scotch poem, Christ's Kirk on the Green He was at that time a wigmaker in the Edinburgh High St, and later became a bookseller His most famous work, The Genlie Shepherd, was published in 1725 It is a dramatic pastoral poem, on a typically Scotch theme, and was performed at the Edinburgh Theatre He dled Jan 7, 1758

this period strict abstinence is enjoined during the hours of daylight from food, drink and periome

Ramadi Town of Iraq It stands on the Euphrates, 60 m from Bagdad Here, on Sept 28-29, 1917, a battle was fought between the British and the Turks The British, advancing from Bagdad, attacked the Turkish position on the 28th and on the

1040

Ramsay Sir William Mitchell Scottish archaeologist He was born at right angle. The instrument is a modification of Humanity at Aberdeen from 1886 1911 For more than 46 years the history and geography of Asia Minor have been his special study. His works include The Church in the Itoman Empire (1893) St. Paul the Traveller and the Roman Citizen (1895) The Letters to the Seven Churches of Asia (1905) He was proposed in 1906.

knighted in 1906 Urban district of Ramsbottom Urban district of Lancashiro It is situated on the Irwell 4 m from Burry, by the I. MS Rly The chief industry is the making of cotton goods with the attendant occupations of bleaching and dyeing Pop (1931) 14,926

Ramsbury Village of Wiltshire It is the GW Rly In Angle Saxon times it was the seat of a bishopric

Ramsey Island of Pombrokeshire Situated off St Davids Head, it is about 2 m long and covers 600 acres There is a harbour on the east coast, and on the island are wild duck snipe and woodcock

Ramsey Urban district and market town of Huntingdonshire It is in the chief building is the magnificent parish church There was once a Benedictine abbey of which only a gatchouse remains The modorn abboy is the seat of Lord de Ramsey Nere but this has now been drained Pop (1931) 5180

Ramsey Market town and scaport of the Islo of Man It is in Ramsey Bay, on the north west side of the island, 14 m from Douglas Noar is Snaefell, which can be ascended by railway Steamers go regularly to and from Liverpool and other parts. Pap. 5000 parts Pop 5000

Ramsgate Borough, pleasure resort It is on the Isle of Thanet, 78 m from London and 16 from Canterbury, on the 8 Rly There is an inner and an outer harbour, and fishing is an important and ustry. There are fine promenades, large parks and excellent sand During the summer steamers go regularly to and from London, and also to Calais and Boulogne. Pop. (1931) 33,597

Rand Short name for the district in the Transvaal known as the Witwaters rand It is the richest gold bearing region in the world. See WITWATERSRAND

Ranelagh Place of amusement in London It was in Chelsea, where are now the grounds of Chelsea Hospital where are now the grounds of Cheisea Hospital There, Richard Jones, Earl of Ranclagh, built a house and laid out gardens which, in the 18th century, were a popular pleasure resort for the fashlonable folk of London In the grounds was an immense rotunda, where entertainments of all kinds were held The wedger Banalagh Club in the Born Flora

The modern Ranelagh Club is at Barn Elms Park, London, S W 13 It was opened in 1894 and is a centre for polo It has also facilities for golf, croquet and other games

Range Finder Instrument devised distance of an object from the observer and used in ascertaining the distance of a target, also in surveying. The usual form of range finder or tolemeter is based upon the measure ment of the angles of a triangle whose apex ment of the angles of a triangle whose apex is the distant object and the base the instru-

of Martaban A town has existed on this site since the 6th century The principal building is the Show Dagon Pagoda, the central shrine of Burmese religion It is 368 ft high and is covered with gold leaf During the last 50 years Rangoon has developed from comparative in gnificance into the third port of the British Empire It has a university and many fine public buildings and amenities Its present importance is largely due to the quantities of rice which are exported from its harbour Pop (1931) 400 415

Ranjitsinhji Kumar Shri Indian was born Sopt 10 1872, and finished his education at Trinity College, Cambridge There he played cricket for the university, and in 1895 he settled in Sussex and began to play regularly for that county His wonderful batsmanship made an extraordinary impression and he became perhaps the most popular batsman, as he was certainly the most graceful in the land He played for England against Australia and in other representative matches Australia and in other representative matches In 1906 Ranil, as he was popularly called, became a ruling Indian prince when he suc ceeded as Maharajah of Nawanagar, and as such he served in France in 1914 15 and took part in Indian politics In 1897 he published The Jubilee Book of Crici of He died in 1933 Ranke Leopold von German historian He was born Dec 21, 1795 studied at Halle and Berlin and in 1825 became Professor of History in Berlin Perhaps the greatest of modern historians, Ranke wrote no less than 47 volumes, including the

wrote no less than 47 volumes, including the monumental History of the Popes of the 16th and 17th conturies He also wrote about certain periods in the histories of England, France, Germany, Austria and Venice When he died, May 23, 1886, he was engaged on a History of the World

Rannoch Loch or lake of Perthshire county, it is 9 m long Its waters are carried by the Tummel into the Tay The moorland area around the lake is known as Rannoch There is also Loch Lydock, 51 m by half a mile

Ranters (1) Antinomian and pantheistic sect in Commonwealth England Rejecting ecclesiastical and scriptural authority Rejecting ecclesiastical and scriptural authority they included fanatical elements whose influence was gradually counteracted by the Quaker message (2) Name applied, about 1823, to street-singers in Belpor when returning home from early Primitive Methodist camp meetings, afterwards extensively used as a nickname for the religious community

Rapallo Watering place of Italy It is on the Gulf of Rapallo, 16 m from Genoa, and is one of the most popular resorts on the Italian Riviera The industries are fishing and lace making Pop 7180

At Rapallo on Nov 12, 1920, Italy and Yuroslavia signed a treaty fixing the boun daries between the two nations By it Flume was recognised as an independent state

they are grown extensively in Europe and India for green forage, the seeds, used for feeding poultry, yield an edible, burning and lubricating oil, known commercially as colza

Rape In law, the crime of having carnel knowledge of a woman by force against her will At one time it was a capital offence, but since 1861 has been punishable in England by penal servitude for life The offence is not mitigated by unlawful extortion of consent by threats, etc

Raphael One of the archangels He is represented in the Book of Tobit as appearing in human form to act as the guide and guardian of Tobias

the guide and guardian of Tobias

Raphael Sanzio Italian painter He April 6, 1483, and received his early training April 6, 1483, and received his early training from his father, though the latter died when his boy was but eleven years old Raphael's work falls into three periods (1) Perugian (1500-04) during which he first studied under and then worked in co operation with Perugino, (2) Florentine (1504-08) when he came under the influence of Leonardo da Vinci and Michelangelo, (3) Roman (1508-20) during which he decorated the state apartments in the Vatican at the request of Pope Julius II One of the greatest and most versatile of painters, he not only excelled in every branch of the art, but was loved by all who knew him His last work, "The Transfiguration," was almost completed when he died, April 6, 1520

Raphia Palm Genus of palm-trees indigenous to tropical Africa and America Their long stalked, Africa and America Their long stalked, feathery leaves, sometimes exceeding 50 ft, spllt lengthwise into strips, serve for native mats, clothing, etc Important species are the Amazon jupati palm and the W African bamboo, or wine-palm, yielding a fermentable sap and a bass, one grown in Madagascar and elsewhere supplies raffia See RAFFIA WORF Work

Work
Rapier Slender, highly-tempered, sharppointed edgeless weapon about 3 ft long, used solely for thrusting Superseding the two edged pointed sword used in 16th-17th century duelling, which on occasion served also for cutting, it was long indispensable for gentlemen's wear It survives ceremonially in court dress, and with the foil is the main modern fencing weapon.

Raspberry Shrub of the rose order (Rubus Idaeus) Its perencial stool produces shoots which bear, in the second year, many scarlet or vellow fruits Cultivated varieties yield finer and larger fruit, used for dessert, jam, sweetmeat-flavouring, wine, etc The sweetened juice mixed with vinegar is called raspberry vinegar R odoratus, an ornamental shrub, sometimes R odoratus, an ornamental shrub, sometimes white flowered, in British gardens, comes from Canada and the northern USA See LOGAN-BERRY

Rasputin Gregory Estmovitch Russian monk He was born in 1871 in the province of Tobolsk, Siberia, had no education, and lived until 1904 in his native village. Then he left his family, and practised educations are released adopting the attitude that village Then he left his family, and practised religious exercises, adopting the attitude that it was necessary to sin in order to obtain forgiveness. He had tremendous strength and personality and, despite his orgics, surrounded himself with an air of mysticism Soon he appeared at court, and exercised a malign influence on Church and State, until he was invited to suppor at the Yussupoff

Palace by the Grand Duke Dmitri Paylovitch and others, and shot dead, Dec 15, 1916

Rat Name applied to various rodents, specifically to the larger species of the mouse genus. The long tailed black rat (mus rattus) 7 in long with 8-9 in tail, of Asiatic origin, which reached 13th century Europe, and became established in Britain is the progenitor of white and pied domesticated forms Following its westward migration came the brown or Norway rat, 8-9 in long with shorter tail, which swam the Volga, 1727, reached Britain in East-Indiamen, c 1730, and ousted its smaller congener from most parts of England and many continental areas Its parasitic fica, when infected, conveys bubonic plague Sec MUSQUASH

Ratafia Flavouring essence It is made with essential oil of almonds It is made

Ratcliff Highway Old name for a street in Stepney It is now called St George's Street In the 19th century it had a very evil reputation due, in part, to a series of murders which took place there in 1811

Ratel of the weasel tamily (mellivora), inhabiting India and Africa, also called honey-badger Short limbed and short-tailed the underparts are black, the upper greet.

the underparts are black, the upper iron grey,

Rates Word used for the money raised by local authorities for their expenses Rates are thus the local counterpart of taxes, or money raised for national purposes At one time there were several rates, a sanitary rate, an education rate, a police rate and others, but these have now been amalgamated and most areas raise a consolidated rate. The only exception is the water rate which is quite

distinct from the others The amount of the rate is fixed by the council The amount of the rate is fixed by the council at so much in the £ for the year on the rateable value of property in its area. This is then collected from the various owners and occupiers, each paving according to the rateable value of his premises. In the case of small houses the rates are usually paid by the landlord. There is no limit to the amount of the rate which a council can lary. rate which a council can lovy in some areas the rates exceed 25/- in the £ In order to allow for an increase or decrease in the value of property, it is valued periodically, usually

property, it is valued periodically, usually every five years

In 1896 the rates on agricultural land were reduced by one half, and in 1928 there was important legislation in the same direction By a scheme of derating, land used wholly for agricultural purposes was entirely relieved of rates. Land and buildings used for industrial and fransport purposes were relieved of three-quarters of their rates. In order to make up the loss to the local authorities grants were made by the government. In 1934-5 the amount of money raised by the rates in England and Scotland was £171,874,000.

Rath Irish name for a prehistoric hill fort. It was protected by an embankment and sometimes by stakes. There are remains of about 30,000 in the country and the word forms part of many places. the word forms part of many place names

Rathfarnham District of Dublin, on the River Dodder, 4 m to the south of the city proper Here is a castle, at one time a sent of the Loftus family

Rathlin Island of Ireland It is off the coast of Antrim, 6 m. north It is off of Ballycastle It is 6 m long and on it are ; the ruins of a castle

Rating in the British Navy the class to which any member of the crew belongs. It is also used for the tonnage class of a racing yacht

Rationalisation Industrial term that the Great War It describes the process of making productive industries more efficient by eliminating waste, and still more by organi sing them into larger units for the purpose of meeting competition. A good deal was done in this direction notably in the iron and steel and associated industries, among shipbuilders

Rationing Apportioning of a share of supplies, usually of food, to cach member of an army, navy or population In the army and navy this is done through quartermastors and petty officers, and each man has a standard daily ration of food, a part of which may be commuted for a cash allow ance to be spent on other food

During the War, the entire population of Great Britain was rationed, from June, 1917, particularly with regard to fats sugar and ment. Each person had a registration card, checked by the retailer with whom he was registered, who received enough food to supply

all his registered customers

Rattlesnake Genus of American venopit viper sub family (croidius) Measuring 48 ft., there are several N American species, one extends S of Panama They produce living young and peccures habitually feed on them. The rattle comprises several loose jointed horny pieces attached to the tail's end bone, one being added every time the skin is sloughed, 23 have been counted The tail's agitation produces a warning noise perceptible at 10-20 yds distance Sluggish and inoffen sive, they strike only under provocation

Raunds Urban district of Northampton shire It is 8 m from Welling borough on the L M.S. Rly, and is a centre for the manufacture of boots and shoes Pop

(1931) 3683

Ravel Maurice French composer Born 1875, at Ciboure (Pyrences), he was educated in Parls and studied music at the Conservatoire there under Bériot Gédalge and Gabriel Fauré In 1901 he won the 2nd Prix de Rome with his cantata Myrrha At first he attracted little notice but his Scheherazade, in 1904, was halled as a "miracle of musical impressionism". His masterplece is perhaps the ballet, Daphnis et Chloe (1921), and he composed the very popular *Bolero* (1928) a dance of Moorish type He has written much for the voice, the piano and the orchestra, including opera In 1928 he received the honorary degree of D Mus, Oxon

Largest bird of the crow family (Corvus corax) Normally 25 ins long, strong billed, strong flying, harsh voiced with ebony black bill legs and plumage, the breast and upper parts acquire a glossy steel blue sheen It breeds in NW Scotland and other isolated parts of Britain, 3.5 brown spotted bluish green eggs being laid in bulky cliff built or tree built nests Easily tamed, it makes an intelligent but thievish pet, and can

produce parrot-like imitations
Ravenna City of Italy It is famous for its splendid examples of eccle

most ancient of Italian towns, and was used by Augustus as the headquarters of his Adriatic by Augustus as the headquarters of his Adriatic fleet. Four hundred years later the Emperor Honorius took refuge there with his court from the advancing Alaric Afterwards the city remained the capital of Italy for 350 years Dante is buried there Pop (1931) 78,143 Ravensbury on the River Wandle, in the urban district of Mitcham The manor house was long the residence of the Bidder family, and on the estate are the nests of rare

family, and on the estate are the nests of rare birds, as well as a heronry The old manor birds, as well as a heronry The old manor house was once the home of the Throckmorton There is a Saxon cemetery in the family district

Ravenscar Watering place of York-shire (WR) It is 10 m to the north of Scarborough and is served by the LNE Rly

Ravenscourt Park London It is in the borough of Hammersmith The park from which it takes its name is now public property, and in it is an 18th century house and an old English garden In 1932 the free

masons erected a hospital in the district

Ravenswood Town of Queensland

It is 78 m from

Townsville Gold is mined in the neighbour from hood Pop 2000

Ravensworth village of Durham It gastle and contains a castle, the seat of Lord Ravensworth This was erected in the 19th century on the site of an earlier one The title of Baron Ravensworth dates from 1821 and is held by the family of Liddell From 1874 to 1904 there was an Earl of Ravensworth

Rawal Pindi Indian town It is situated in the Pun jab, about 110 m SE of Peshawar, and was the scene of the surrender of the Sikhs in 1849 Its present importance is due to its premier place among Indian military stations, owing to its size and its key position in the North West Frontier system of defence Rawal Pindia gives its name to a district and division of the Punjab

Rawdon (WR) It is 5 m from Bradford on the L MS Riy The chief occupation is the woollen industry Pop (1931) 4574

Rawlinson Lord British soldier Born Feb 20, 1864, Henry Sey mour Rawlinson served with Sir F Roberts in India and in Burma (1886 87), on the Nilo (1898) and in the South African War During the Great War South Agrican War During the Great War General Rawlinson commanded troops at Antworp, Ypres and the Battle of the Somme (1916) with conspicuous success His victory with the French at Amiens in 1918 heralded the general advance of the Allies He was rewarded for his services in the Great War by being made Baron Rawlinson of Trent In 1919 he conducted the withdrawal of the Allied troops from Archangel in Northern Russia, and in 1920 went to India as commander in-chief of the army there on March 28, 1925 His biography has been written by Sir F Maurice

Rawlinson Sir Henry Creswicke English soldier and orienta list Born on April 11, 1810, he went to India in 1817 as a cadet in the East India Company Ravenna City of Italy It is famous for and later helped to reorganise the Shah of Persia s troops He became interested in the slastical architecture, belonging to the period litherto undeciphered cuneiform characters, from 5th to 8th centuries It is one of the at Behistun In 1851 he continued the French excavations on Assyria In 1859 he was minister plenipotentiary to Persia, and returned to England in 1860 He served on the Council of India from 1868, and advocated a forward policy in Afghanistan He died on March 5th, 1895

Rawmarsh Urban district of York-shire (WR) It is on the Don, 2 m from Rotherham and is reached by the LMS Rly The main industry is the manufacture of iron and steel goods (1931) 18,570

Rawtenstall Borough of Lancashire the Lancashire from Manchester, on the LMS Rlv, and manufactures cotton goods. Coal mines are in the district. Pop (1931) 28,575

Ray Line at right angles to the wave point of the luminous source in which light is propagated. In this strict sense it is a mathematical conception Popularly a narrow pencil of light is termed a ray Besides narrow pencil of light is termed a ray Besides the visible rays of the solar spectrum-light there are others at each end which are not perceived by the eye, eg, the actinic or ultraviolet rays, and, at the opposite extreme, the infra-red or heating rays See HEAT, LIGHT, SPECTRUM, X-RAYS

Ray Flattened cartilaginous fish with broad and fleshy pectoral fins Of true rays (Raia) British forms include the short snouted thornback, the spotted, starry and sandy rays, the last being the most frequently caten, and several long-snouted species, usually called skates Allied families include the electric ray or torpedo, sting-ray, eagle-ray and ox-ray or devil-fish

Rayleigh Village of Essex It is 8 m from Southend and 35 from London, being served by the LNE Rly The family of Strutt takes the title of baron from here Pop (1931) 6256

Rayleigh Baron English physicist Born Nov 12, 1842, John William Strutt Rayleigh succeeded to his father's title as 3rd baron in 1873 After a brilliant career in Cambridge he became Cavendish Professor of Experimental Physics there, and Professor of of Experimental Physics there, and Professor of Natural Philosophy at the Royal Institution In conjunction with Sir William Ramsav he discovered argon (q v) He died June 30, 1919, and was succeeded as 4th baron by his son Robert John, already eminent in the world of science

Robert John Strutt Rayleigh was born Aug 28, 1875, and educated at Eton and Trinity College, Cambridge (Fellow, 1900) He is Foreign Secretary of the Royal Society, and Emeritus Professor of Physics at the Imperial College of Science, South Kensington He has done much work in connection with radium, and heavy written a number of scientific papers. He has! has written a number of scientific papers.

Razorbill Sea-bird of the auk family, and northern regions Resident in Britain, in long, it has a glossy blackish plumage which is white underneath The massive deeply-furrowed bill, flattened laterally, has a hooked tip The brown-blotched whitish egg, laid on a rocky cliff on both Atlantic coasts, including that of Great Britain, is a delicacy

Razor Shell (or Razor Fish) Family of sand-burrowing bivalve molluses having long narrow parallel-sided shells with truncated ends The common British Solen siliqua is used for food and for fishing-bait.

Reade Charles English novelist and dramatist. Born at Ipsden House on June 8, 1814, and educated at Magdalen College Oxford, he was called to the bar in 1843 He first began writing in 1850, beginning with plays including Masks and Faces (1852) It was as a novelist that he achieved fame Among his more important works are Peg Woffington (1852), It is Never too Late to Mend (1856), and his masterpiece, The Closser and the Hearth (1861) He died on April 11, 1884

Reading Borough and market town of Berkshire, also the county town It is 36 m from London, standing where the Kennet falls into the Thames The town proper is on the south side of the river, and is an important railway centre, being served by the GW S, and LNE Rlys It has also canal connections

Some ruins of the Benedictine monastery in which Henry I was buried may be seen. The chapel of the Grev Friars is another object of interest. The museum contains Roman remains from Silchester Since 1926 there has been a university Reading is famous for its biscuits and its seeds it is also an agricultural centre and has engineering works Pop (1931) 97,153

and has engineering works Pop (1931) 97,153

Reading Marquess of English statesman Buniel Isanes
was born in London, Oct 10, 1860, and
educated at University College School and
abroad, studied law and became a Bencher
of the Middle Temple Entering Parliament,
he represented Reading as a Liberal from 1904
to 1913, was Solicitor-General in 1910, AttorneyGeneral, 1910 13, and Lord Chief Justice of
England, 1913-21 He was Special Envoy to
the United States in 1917, High Commissioner
and Special Ambassador to the United States
in 1918, and from 1921 to 1926 was Viceroy
of India He was knighted in 1910, created a
baron in 1914, viscount in 1916, earl in 1917,
and marquess in 1926 A biography by Mr.
Derek Walker Smith appeared in 1933 He died
in Dec. 1935 in Dec , 1935

Realism Doctrine in philosophy that things have a real existence apart from their presentation to our con-sciousness Something of the kind was taught by Socrates It is thus the opposite of idealism In literature and art, realism is also opposed to idealism or romanticism. It claims to present life as it realiv is, not as it ought to be or is desired to be. It does not, therefore, ignore the unpleasant or sordid aspects of life. In this sense Thomas Hardy and some of the great French and Russian writers are realists.

Real Presence Eucharistic It belief, held by the Roman and Greek Churches and by High Church Anglicans, that the bread and when of the Eucharist and head to the consequent of the Eucharist and head to the consequent of the Eucharist and head to the consequent of the conseque bread and wine of the Eucharist contain, after their consecration, the body and blood of Jesus Christ This belief rests upon a literal interpretation of the words of institution, "This is my blood," and of the sixth chapter of S John's Gospel Roman Catholics believe that the sacred elements may be worshipped, but the Greek Orthodox Church does not so believe Sec RESERVATION RESERVATION

Real Property Term used in English law for land and houses It is distinguished from personal pronotices it is distinguished from personal pro-perty which covers all other forms of property, including leaseholds Before 1925 real property and personal property, in the case of a person dying intestate, descended in different ways, but this is no longer so The two kinds of | property are, however, valued separately on the occasion of death, and certain legal differ

onces between them persist

nces between them persist

Rebec Medleva stringed instrument
origin, and known in 9th century Europe A
broad based 3 stringed Byzantine type, filus
trated on ivory caskets and illuminated MSS,
had a body like a pear halved lengthwise,
pierced with sound holes A narrow 2 stringed
boat shaped type reached Moorish Spain
Violins ultimately superseded both

Rebecca Riots Disturbances that broke out in South that Wales in 1839 and the following years were caused by the charges made at the toll gates for the use of the roads, although there were contributory causes The rioters, dressed as women and calling their leader "Rebecca" went about the country destroying the toll gates, some of them rode horses Troops were sent against them and the rising was put down The name was taken from a passage in Genesis xxiv where Rebecca says "Let thy seed possess the gate of those which hate them "

Rebekah Sister of Laban, wife of Isaac and mother of Esau and Jacob By her ruse her younger son deprived Esau of the paternal blessing (Gen xxvii) She was buried in Abraham s tomb at Hebron The Jewish and Christian personal name commonly follows the N T spelling 'Rebecca'

Rebus Riddle that is a representation of pictures or words, or both in combination They originated in France An example is be independent, but not too independent, which as a rebus may be represented by the letter B pendant in the letter D, a butt a knot and the figure 2 pendant in D in heraldry a rebus is an allusion to the name of the bearer in a coat of arms Thus a hammer for Hammer ton is an example ton is an example

Récamier Madame French society Born Doc 4, 1777, she married, at sixteen, a rich banker of fifty four, and gathered many dis tinguished people in her brilliant salon. Her husband was ruined in 1806, and Madame ruisited Madame de Stael at Coppet where she met Prince August of Prussia He wished to marry her if M Récamier would consent to Madame refused to leave her husband in his adversity One of her greatest friends in after years was Chatcaubriand. She died on May 11, 1849

Receipt Acknowledgement of a payment for \$22 or over must be stamped. This was long a penny stamp but in 1920 it was raised. to twopence A person giving an unstamped receipt is liable to a fine of £10 A receipt can be stamped at the inland revenue offices on payment of £5 within 14 days, or £10 within a month

Receiver Person appointed to look after the property of a company or person who is unable to meet its or his liabilities. To supervise the affairs of bankrupt estates there are official receivers in the various county courts and in London Debenture holders usually appoint a receiver when the interest on the debentures is not forthcoming after a stated time

the case of a bankrupt individual, or a company that cannot meet its liabilities One or more of the debtors usually make the application, and if it is granted a receiver takes over the assets of the individual or company and distributes them as the law directs

Rechabites Hebrew religious com Jehu's reign by Rechab's son, Jehonadab, who followed his father s practice, they dwelt in tents, and avoided wine, vine planting and grain-growing (2 Kings x) Three conturies atterwards. Jeremiah commended their descriptions attorwards, Jeremiah commended their de votion (Jer xxxi) The Independent Order of Rechabites, a total abstinence Friendly Society, founded 1835 numbers about 725,000, including overseas members

Reciprocity Exchange of commercial privileges It is usually experienced when two nations make tariff concessions to each other Much was heard of the word in 1911 when there was a proposal for reciprocity between the United States and Canada. The proposal was, however, defeated

Reclamation Recovering land from the sea It has occurred in the building of sea walls and embankments and is usually done when the sca is receding In England much land around the Wash has been reclaimed, and there are other instances. notably on the south coast of Kent, and in the estuary of the Ribble Another kind of re clamation is to drain off inland water, as when Whittlesea Mere was so drained It is now a tract of agricultural land, but it was once a lake

Recognizance In England a legal obligation entered into before a magistrate It is usually a promise, under penalty, to commit or not to commit a particular act For instance a man summoned for dangerous driving may be asked to give recognizances that he will not drive again for six months

Recollect Fathers (or Recollects) friars of the Strict Observance Founded in 15th century Spain and approved by Pope Clement VII, 1532, they were among S America's earliest Christian missionaries Gaining renown by preaching, they served as army-chaplains in pre revolutionary France, and operated in India, Canada and Jorusalem, where they have the charge of Latin Christendom's holy places

Reconstruction Term used in the United States for the work of restoring the country to prosperity after the devastation caused by the Civil War It was used in a similar sense in Great Britain after the Great War In 1917 a ministry of reconstruction was established to prepare for the mature of saidlers to stril the orders of the saidlers to stril the orders of the saidlers to stril the saidlers to said the return of soldiers to civil life and for other changes consequent on the return of conditions of peace It continued until 1920, when it was abolished

Reconstruction is also used in a legal sense It describes the reorganisation of a company's finances, usually in consequence of trading losses. A scheme of reconstruction must be approved by the shareholders and by the courts of law It usually involves a reduction of the nominal amount of the capital in the business

Recorder In England a judge Cer tain cities and towns have interest on the debentures is not forthcoming after a stated time

Receiving Order Order made by a recorder, is appointed He receives a salary and holds office for life or until promoted He ranks next after the mayor A recorder cannot sit in Parliament for his own city or horough

Recorder Instrument used in tele-on submarine cables The earlier form was a type of mirror galvanometer, but is now generally replaced by the "siphon recorder," which marks the message in ink upon a moving paper ribbon The name recorder is given also to a soft-toned musical instrument of the flute type

Record Office Public building in It stands It stands between Chancery Lane and Fetter Lane, and in it the state papers and other historical documents are kept. It is controlled by the Master of the Rolls, and students can consult its records. The museum contains Domesday Book and other priceless historical documents

Rectifier Electrical device for the con-current into a direct one It is used for motors, current into a direct one arc lamps, and wireless receivers working from an alternating current main. In the mercury vapour type of rectifier an electric arc is maintained between two electrodes through mercury vapour in a vacuum, the current receiving high resistance in one direction. In an electrolytic rectifier the current readily passes only in one direction from a lead electrode to one of aluminium

Rector Latin word meaning "ruler" In the Church of England a rector is one who holds a living in which all the tithes belong to him A vicar has only the lesser tithes It is also used for the heads of certain colleges at Oxford, eg, Exeter, and for the headmaster of some of the chief of the Scottish schools, eg, Edinburgh Academy In the United States the incumbents of the episcopal churches are called rectors—as they are in Scotland The title is also held by certain ecclesiastics who are engaged in teaching duties in the Roman Catholic Church

Recuiver Village of Kent, 3 m Herne Bay The old The old church was pulled down in the 19th century, but its two towers have been taken over by Trinity House to serve as a scamark.

Redcar Borough, market town and watering place of Yorkshire (NR)

It is 8 m from Middlesbrough on the
LNE Rly The attractions include good It is 8 m LNE Rly bathing and golf links, but more notable is the fine, firm expanse of sand which is used for motor racing Horse races are held regularly in the town Pop (1931) 20,159

Red Cross International agency for the alleviation of human suffer-

ing, especially for giving relief to the sick and wounded in time of war Its origin may be dated from a meeting held at Geneva on Feb 9, 1863, to discuss the suggestions contained in a booklet by Henri Dumant entitled Un Souvenir de Solferno, which contained a moving description of the sufferings endured by the wounded in that battle (1859) As a result of this meeting, an international conference at Geneva accepted the principle of giving protection in war to the personnel of military hospitals and authorised as the symbol of such hospitals and authorised as the symbol of such protection the now familiar red cross on a white background

Red Deer Large species of deer (Cer-tributed in temperate Europe, W Asia and N Africa The male, 4 ft high at the withers is called a stag, becoming in the sixth year a

A recorder burn city or fawn. It is greyish in winter, reddish-brown in summer, with lighter underparts. It occurvil in televing signals. The male develops finely farm unes. each breeding season, branched antiers each breeding s shedding them by Feb Mar See DEER

Red Deer Town of Alberta It is on the river of the same name, 99 m from Calgary and 93 from Edmonton It is an important junction on both the trans continental lines, CPR and CWR, and is also served by the Alberta Central Rly It is the centre of a farming district and possesses grain elevators Pop 2006

Reddish District of Lancashire It is reached by the LMS and LNE Rlys The chief industries are cotton mills and the making of machinery and chemicals

Redditch Market town and urban dison the Arrow River, 15 m from Birmingham by the L M S Rlv It is famous for its manufactures of needles and fish hooks Motor cycles are also made Pop (1931) 19,280

Redemptorists Order of missionary priests in the Roman Catholic Church It was founded by Alfonso Liguori in 1732 The members aim at teaching the belief of the Church and reforming public morals by visiting, preaching and hearing confessions The ordor must be distinguished from the Redemptionists, whose work is to ransom negro children from slavery

Redesdale District of Northumberthe little River Rede, and extends for 20 m from Reedsmouth on the Tyne to the border of Scotland Owing to its position it figured much in the wars between England and Scotland, and the wars between England and Scotland, and the men of Redesdale won a great reputa-tion as fighters Otterburn is in the valley

The title of Baron Redesdale is borne by the family of Freeman-Mitford The first baron John Mitford, a landowner in Northumberland was Solicitor-General, Attorney-General and Lord Chancellor of Ireland between 1793 and His son, John Thomas Freeman Mitford 1806 (1805-86) was created Earl of Redesdale in 1877, but the title became extinct on his death In 1902 a diplomatist, Algernon Bertram Freeman Mitford, was created Baron Redesdale He wrote a volume of Memory, and died Aug 17, 1916 when his son, David, became the 2nd baron

Redhill Market town of Surrey It is junction on the S Rly It possesses a picturesque common Redhill is part of the borough of Reigate

Redistribution In political language the rearrangement of the constituencies that return members to the House of Commons It is usually worked in connection with a measure extending the franchise, as was the case in the United Kingdoms in 1832, 1867, 1884 and 1918 There was, however, no redistribution after the extension of the franchise to all women in 1928 It serves to correct inequalities that have grown up in the various areas, some places that in the places of the propulation and others decreased in some countries, Canada for instance, there is a redistribution of seats in the Dominion House of Commons after each census, according to a fixed plan.

Red Letter Days The greater fest the Church, which in old manuscripts were written in red to distinguish thom from the lesser festivals, written in black. The term now signifies an outstanding or fortunate day

Redmond John Edward Ho Irish politi-Redmond John Edward Irish politician He was born at
Hoovfield, Co Wexford Sept. 1, 1856, educated at Trinity Collego, Dublin, and called
to the bar in 1886 He represented New Ross
1881-85 N Wexford, 1885 91, and Waterford
from 1891 until his death He was one of the
leaders of the Home Rule party, becoming
chairman of the National party in 1900, and
was a strong upholder of Parnell Redmond's
alm was not separation but the attainment by alm was not separation but the attainment by friendly means of a 'free Iroland within the Empire,' and he expressed his abhorrence of the rebellion of April, 1916 He died March 6, 1918

Redpoll Song bird of the finch family, distinguished by the male s crimson crown and rosy breast. The name applies loosely to the cock linnet in summer plumage and to the mealy redpoll, Acanthus linaria, with white marked wings, a winter visitor to Britain The lesser redpoll, Acanthus sufference, darker and with unmarked wings, is resident.

resident.

resident.

Red River River of North America River of Rising in N Dakota, it flows between that state and Minnesota into Manitoba and discharges into Lake Winnipeg A settlement formed by the Hudson Bay Company where Winnipeg now stands combined with one composed of French settlers nearby The latter rebelled in 1869 when the territorial rights were purchased by the Canadian Government, necessitating the intervention of troops vention of troops

Another Red River is the southernmost large tributary of the Mississippi, joining in

Louisiana

Redruth Market town and urban district of Cornwall It is 9 m from Truro, and is served by the G W Redruth is an important centre of the tin and copper mining industries. It has also a trade in cattle Pop (1931) 9904 Near the town are Carn Brea a hill with

Druidical remains and ruins of a castle and Gwennap Pit, where John Weder preached, is still a place for meetings of Methodists

Red Sea Inland sea separating NE Africa from Arabia It is 1400 m in length from Suez in the north to the Strait of Bab el Mandeb in the south, which connects it with the Indian Ocean Its greatest breadth is 250 m. Navigation in the Red Sea is difficult owing to the irregularity of the tides. The completion of the Suez Canal in 1869 restored to the sea the position which it had held be prefer times as a construction which it had held in ancient times as a great commercial highway

Redshank British shore bird (Tolanus calidris) akin to the sand-pipers, and ranging over Europe, Asia and N Africa Measuring 11 in, with grevish brown plumage whitish beneath bright red legs and black tipped yellow bill, it lays four blotched yellowish grey eggs in grass lined ground nests. The slightly larger spotted redshank, with more mottled plumage, is a bird of passage in E England

Redstart Genus of song birds (Ruticilla) tives of Europe, Asia and Africa. The com

mon European R phoenicurus with white forehead and black throat, habitually flirts the tail, the male, 5½ in long, has a bright bay breast...It reaches Britain in March for breed-The black redstart visits S England ing autumnally

Reduction Term used in metallurgy for the process by which a metal is separated from the ore. In the first stage the ore is reduced to a suitable degree of fineness by mechanical means and after washing and sorting is concentrated in a fine powder The concentrate is then smelted by the aid of various reducing agents, in the case of oxides such as charcoal cyanide of potassium and other substances which remove oxygen

Redwing Small species of thrush (Turdus dus diacus) The male, Si in long, with reddish orange under wing-coverts and axillaries, is distinguishable from the song thrush by a white streak over the eye. Breeding in N Europe, it is a winter visitor

to Britain

Redwood Name applied to unrelated trees Ti The Callfornia redwood, Sequoia sempervirens a cone-bearing evergreen growing 130 to 340 ft high, with a trunk 8 to 25 ft across clear of branches to its height, vields light durable timber extensively used in Europe Baltic redwood is the Scots pine There are also Andanan, Cape and Indian redwoods

Reed Name of various tall peronnial water loving grasses The widely-distributed common broad leaved reed, Phragmiles communs, 6 to 10 ft high abounds in Britain The Provence reed or Spanish cane arundo donax, sometimes 18 ft high is used for bagpipes and other wind instruments The sea reed or marram grass Ammophila arenaria is extensively planted for binding sand dunes

Reed Speaking part (made of coarse cane like grass) in the mouthpiece

of wood wind instruments, saxophones and in harmoniums Organ reeds are made of metal A "free" reed, when vibrating, passes through the slotted plate to which it is fixed enabling the wind so to push it that the opening

closes The harmonium has a free reed
A "beating" reed strikes the edges of the
slot Beating reeds can be single or double

Reedbuck Boer name, rietbok, for African antelopes especially Cervicapia arundinea Standing 3 ft high at the shoulders short tailed pale fawn orange tinted on the head, and dingy white underneath, the male alone bears upright horns 12 to 13 in long and curving slightly forwards Formerly common it is now rare S of the Vaal, and extinct in Bechuanaland

Reel Scottish dance It is danced by couples to the music of the bagpipe or the fiddle It may be a foursome a sixsome or eightsome according to the number of couples in the dance

Reeves John Sims English vocalist He was born at Woolwich on Sopt 26, 1818 His first musical performances were given in boyhood on the organ and he made his debut in opera in 1839 as a baritone soloist. It was, however, as a tenor that he achieved fame owing to a voice of surpassing strength and beauty, and at the age of 30 he was recognised as the leading English tenor He died on Oct. 25, 1900

Referee Arbitrator or judge The term who control games at football, boxing matches and other sporting events In football the referee is usually chosen from a list of old and experienced players, and has no connection with either of the clubs playing He is paid

Referees of another kind are lawyers appointed to discharge certain duties in the law courts. The Supreme Court in London possesses three official referees and there are referees to decide matters that arise under the Finance Acts, 1915-27

Referendum Method in politics by which the people decide in favour of or against a certain proposal. It has long been used in Switzerland and in the states and cities of the United States, but never as yet in Great Britain. It has been used in Australia on several occasions, and there is provided for it in the constitution of the in Australia on several occasions, and there is provision for it in the constitution of the republic of Austria Several countries, among them Finland, have decided the question of prohibition by a referendum Since the Great War the referendum has been used in Germany In 1926 a referendum decided that the property of the former reigning princes should not be confiscated, and in Aug, 1931, another supported the Government in the measures taken against the followers of Adolf Hitler, but the referendum of Nov, 1933, approved the policy of the Nazi government, and that of Aug, 1931, confirmed Hitler's unifying in his own person the offices of President and Chancellor of the Reich after Hindenburg's death The Saar plebiscite or referendum, Jan, 1935, showed a 90 36 per cent. vote in favour of return to Germany, and in Nov, 1935, the Greeks expressed by plebiscite their desire to return to monarchy monarchy

Refinery Name given to a place where the process of refining or purifying such things as metals, oils, sugar, etc is carried on The refining process naturally varies with the character of the product, in a potroleum refinery the process involves fractional distillation by which hydrocarbons such as motor spirits, lubricating and lighting oils, etc, are obtained In metal refinerles the crude metal is purified by furnace methods or electrolysis and in sugar refining the colour is removed by animal charcoal or other methods

Reflation nomic crisis of 1931-32 as an alternative to inflation, or an increase in the amount of currency in existence. It is defined by Sir Arthur Salter as the "raising of the general level of wholesale prices by concerted monetary action, to a selected level, not higher than that of the beginning of the world depression in 1929 and its maintenance at this ievel hereafter."

Reflection Term applied in optics to the Reflection change of direction when a ray of light strikes a surface and is thrown back or reflected in a new path. The degree of reflection varies with the nature of the surface. A smooth, polished surface, as in a mirror, reflects nearly all the light, a perfectly reflecting surface being invisible.

Refectory Architectural term for the monastery It was usually placed on the ground floor or sometimes raised on vaulted collars or even as a detached building During the meals one of the brethren read aloud from a lectern supported by corbels on one of the side walls of sending members to the House of Commons. The act of 1832, which abolished the rotten boroughs and gave votes to householders on a uniform plan, is known as the great Reform Act. In 1932 its centenary was celebrated Other measures on the same lines were passed in 1867, 1884, 1918 and 1928, when all men and women over 21 received the right to vote Reform is also used for the proposals to alter the constitution of the House of Lords

Reformation The Religious and political movement in Europe in the 16th century, which ended in the establishment of the Protestant Churches Its causes are to be found in the abuses prevalent in the Roman Catholic Church during the previous centuries, the new critical spirit, fostered by the Renaissance, and the growing force of nationalistic feeling. In 1517 Martin Luther nailed to the church door at Wittenberg in the province of the church door at Wittenberg in the province of the church door at Wittenberg in the province of the province of the church door at Wittenberg in the province of the province of the church door at Wittenberg in the province of the protestant of the province of the pr Luther nailed to the church door at Wittenberg his famous ninety-five theses, in which he attacked the sale of indulgences He followed this by a stout resistance to the attempts made by the Pope to suppress him, and was excommunicated in 1520 His followers received the name of 'Protestant' from their protest made at the Diet of Spires against a decree which enacted that no change should be made in Church practice and doctrine

Not all the early Protestants, however, were Lutherans In Switzerland, Zwingli and Calvin were the leaders of an independent movement, which spread rapidly in France, the Netherlands and (through the influence of John Knox) in Scotland The name Reformed Churches was given to the bodies established as a result of the Calvinistic teaching, including the Huguenots in France and the Presbyterian Church in Scotland

The Counter-Reformation was the attempt of the Roman Catholic Church to reform itself in the 16th century and to stem the flow of Protestantism, for which purpose the Papacy summoned the famous Council of Trent

Reformatory Schools
Schools in Great Britain "for the industrial
training of vouthful offenders" (Children's
Act, 1908) These institutions are subject to periodical inspection by the Children's Branch of the Home Office, and are supported mainly, but not entirely, from public funds. Only boys and girls between the ages of 12 and 16 may be and girls between the ages of 12 and 15 may be received in such schools, and that after a recorded conviction, and for a period of detention lasting from 3 to 5 years

Reformed Episcopal Church
Religious denomination It originated in New
York in 1873 when Bishop Cummins seceded
from the Episcopal Church of America and
consecrated other bishops to act with him
This body has a small following in England
(generally known as the Free Church of
England) and preserves the principle of episcopacy without some of the doctrines and
practices which have generally been associated
with it in church tradition

Refraction Term in optics applied to the change in direction when a ray of light passes from one medium to another, becoming bent or refracted out of its rectilinear path into a new one

Refrigeration Process of applying vation of foods. The simplest method is the use of a freezing mixture of ice and salt, but on a larger scale several types of refrigerating machines are used. In one type refrigeration is obtained by alternately expanding and compressing air, in another a medium such as animonia is subjected to a cycle of expansion and compression, heat being absorbed from surrounding objects. In still another type a liquid such as carbonic acid or sulphurous acid is vaporised and then mechanically compressed again into liquid form. Refrigerating plant is used extensively for prejudable products.

Regalla Emblems of sovereignty They orb and other articles used at a coronation The British regalia in which are some priceless levels, is kept in the Tower of London

orb and other articles used at a coronation The British regalia in which are some priceless jewels, is kept in the Tower of London

Regatta Name for a meeting where races and other craft Regattas are held at many watering places In England the chief meetings are the regatta at Henley, the great event of the rowing season, and the yachting week at cover See Henley on Thimes

Description Power of renewing lost

Cowes See Henley on Thines
Regeneration Power of renewing lost
Regeneration limbs or organs. It is
possessed by animals of the lower orders
Thus the Hydra can regrow lost tentacles, etc
and a whole animal may even grow from a
morsel of tissue. The annellds (carthworms)
crustaceans (crab), fish, and libards are able
to recreate lost parts in a varying degree. In
the higher animals the power is manifested
only as that process which replaces lost tissue
when a wound heals

Regeneration Theological term de noting the spiritual change which all experience in becoming Christians The necessity for it, declared by our Lord to Nicodemus (John III) is universally admitted by the Christian Church Protestant cyangolical theologians hold that it is a conscious experience independent of any act or ceremony, attending the incident of conversion The Roman Catholic position regards baptism as the real point of transition from the natural to the spiritual life, conferring the grace of baptismal regeneration

Regent One who rules on behalf of a sovereign Whon a sovereign Is a minor, or is insane or in any other way incapable of ruling it is usual to appoint a regent to act for him This was the case in Fugland during the latter part of the reign of George III, when his eldest son, afterwards George IV, was made regent. His powers were defined by Act of Parliament.

In Spain there was a regent, the Queen

defined by Act of Parliament.

In Spain there was a regent, the Queen Mother, during the long minority of the ex King Alphonso XIII, and in Bavaria there was a regent when King Louis was insane Prince l'aul of Yugosiavia has acted as First Regent on behalf of the young King Peter II, whose father, King Alexander I, was assassinated at Marseilles in Oct 1934

Regent's Park Park in London district around it. It is to the north west of the city in the borough of Marylebone and contains the roological and botanic gardens It was

Regent's Park Park in London man of the district around it. It is to the north west of the city in the borough of Marylebone and contains the roological and botanic gardens It was laid out in 1812 and named after the Prince Regent (George IV) The garden was opened to the public in 1838 It covers 473 acres Regent Street London thorough Materioo Place to Langham Place, crossing

other important thoroughfares at Piccadilly Circus and Oxford Circus It was built between 1813 and 1820 and was named after George IV, then Prince Regent. The Quadrant and most of the buildings were designed by John Nash, and it became a great shopping centre In 1919 the leases which were crown property began to fall in and the shops were rebuilt during the next few years In June, 1927, the street was formally opened by King George V

Regillus Small lake in Italy, now drained It lay to the east of Rome It is famous because near here, in 496 Bc, the Latins were defeated in battle by the Romans The story of the battle, used by Macaulay in one of his Lays of Ancient Rome tells how Castor and Pollux, riding on white horses came to the aid of the Romans and turned the fight in their favour

Regiment Body of soldiers Every army is divided into regiments but the nature of these differ In the British army the regiment of infantry is not a fighting unit—it is an organisation consisting of several buttalions with a colonel and a depôt for them all—Before the reforms of 1871 the regiment of infantry was a fighting unit, the regiments were numbered according to the order in which they were raised and were called regiments of the line—In the cavalry the regiment is still the fighting unit. The artillery is organised into one regiment the Royal Regiment of Artillery Each regiment has its colours, but these are no longer carried into action

these are no longer carried into action Regina City of Canada and the capital of the province of Saskatchewan It is 360 m from Winnipeg and is served by both the trans-continental lines, CPR and CNR The city has an enormous trade in wheat and the manufactures include agricultural implements In 1932 a world's grain exhibition was held here Before 1910 Regina was the capital of the North West Provinces and the headquarters of the North-West Mounted Police Pop (1931) 53,209

Registrar Any one who keeps a record In Great Britain there is in every locality a registrar to whom particulars of births marriages and deaths must be given, and by whom marriages can be celebrated This work is supervised by the registrar general at Somerset House London, who is responsible for the census There is a registrar general for Scotland in Edinburgh There are registrars in the law courts and other registrars are responsible for keeping the names and addresses of the shareholders in public companies

Registration Act of registering of entering in a register. It is used for the official entries in books kept by a registerar of births, marriages and deaths and also for recording a great variety of other information for the public use. It is also used for the act of insuring, by paying an extra fee, the safe delivery of letters, articles and luggage Letters and postal packages can be registered at any post office.

Registration is used also in printing where it means the event adjustment, or correspond

Registration is used also in printing where it means the exact adjustment or correspond ence of two pages of printed matter, or in colour photography the correct impression and combination of the various tones—It is used in music for the act of combining the stops of an organ and in photography for making the focusing screen correspond with the plate or film

Regulator Device for regulating the working of various indus

trial processes or machinery, either in relation to proper conditions of temperature, humidity, speed, pressure, etc., or voltage, density of current, etc., in electrical apparatus, timing of operations, or of steam pressure in engines Many different types of regulators are used, some being self-operated, others worked by air, steam or electricity Examples are the timing devices used in dyeing and vulcanising, rheostats and tachometers, and flow-meters

Regulus Marcus Atıllus Roman general Victorious over the Carrhaginiuns several times, he was defeated by them in 255 B C, and held in captivity five years In 250 B C, according to tradition, the Carthaginians sent Regulus, under parole to sue for peace He strongly advised the Senate to reject their proposals, and resisting all efforts to make him break his promise to return, went back to Carthage, where he was put to death

Rehoboam King of Judah, 10th century, BC Son of Solomon, his accession occasioned a revolt of the N tribes and their separation as the kingdom of Israel under Jeroboam (qv) Reigning 17 years, he fortified 15 towns in Judah against the Egyptian King Shishak, who destroyed them and despoiled Jerusalem

Name used for one of the houses of the legislature of Reichstag the federal republic of Germany It means "the day of the empire," and was used for the assemblies or diets called together by the rulers of the empire that lasted until 1806 In 1870 the name was given to the elected assembly established in Berlin for the new German Established in 1919 by the republic In 1933 its members numbered 647, they are elected by all men and women for four nears Early in 1933 the building was burned, and later in the year the supposed incendiaries were tried in Berlin

Reigate Borough of Surroy It is 23 m from London, on the S Rly From 1295 to 1867 Reigate was separately represented in Parliament It has an agricultural trade and is a residential district for Londoners Redhill is part of the borough

Pop (1931) 30,830

Reign of Terror Phrase used for the culminating period of the French Revolution It began in Iuly, 1793, when the Jacobins formed the committee of public safety Hundreds of persons, including Marie Antoinette and many persons, including marie Anomacte and many aristociats, were sent to the guillotine. The leaders then turned upon one another, and Danton and Robespierre were put to death. The latter event took place on July 28, 1794, which may be regarded as the end of the Reign. of Terror It was replaced by the Directory

Reincarnation returns to human Belief that the soul life after death This theory had been held in many parts of the world and is a cardinal tenet of modern theosophy Pythagoras en-Pythagoras enicined abstinence from flesh diet, on the ground that all living things were akin Plato taught that birth was not the creation of a soul, only its transgression from one body to another

Reindeer Sole species of deer antiered in both sexes (Cervus or Rangular tarandus) Standing 4 ft high at the shoulders, swift-footed, it is brownish grey, with whitish face and neck, the antiers are more or less palmated The European form, which reached to the Pyrences in the early stone age, has long

been domesticated, especially by the Lappy, large herds being maintained for their mill flesh and hides. The untamed form inhabiting

Canada is called the caribou (gr)
Reindeer Woss (Cladonia rangi
firma) Widespread species of lichen, native of Britain and espe cially abundant in high latitudes Comprising an intermingled mass of much-branches tubular structures, 2 to 12 in high, it coverbarren plains in Lapland and elsowhere, being

the reindeers winter food

Max Famous Austrian Reinhardt theatrical producer Howas born near Vienna Sept 9, 1873, making his first stage appearance in Salzburg in 1893. The next year he was appointed to the Berlin Deutsches Theater During his connection with this and other theatres he has practically revolutionised stage presentation, making in Reinhardt making 11 He revolutionised stage presentation, making essentially dramatic rather than literary has produced many plays in different European cities, and some striking ones in New York In London he produced Sumurun and The Miracle Offenbach's Heln of Troy and King Oedique and in 1933 at Oxford, A Midsummer Night's Dream (out-of-doors). In 1920 he started the famous Salzburg Festivals and every year pro duced Everyman there But in April, 1933, a ban was placed upon him in Germany, and the Schau-spielhaus which he had constructed was closed

Relapsing Fever Acute infections fover due to a specific micro organism Also called sevenday fever, it has prevailed at intervals since the mid-18th century in Britain, Central Europe, Russia and the Levant, destitution and overcrowding being predisposing causes manifests varving symptoms in India, China, Africa—sometimes called there tic fever—and Panama-Colombia region of tropical After developing for several days it America

subsides spontaneously with profound per-spiration, but tends to recur Relativity Mathematical theory of the universe first put forward universe first put forward by Einstein in 1905 In it he postulated first that absolute motion has no observable effect upon physical phenomena, or in other words that all physical phenomena are so constituted that it is not possible to observe by their means absolute motion and second, that the rate of travel of light is the same in all directions at a given place, and its value is constant for all places in the universe, no matter what may be the relative movements of the earth or other system of reference involved The experimental research of Michelson, and the speculations of Fitzgerald and Lorentz paved the way for Einstein's investigations In the theory of relativity the ideas of force and the action of one body upon another are rejected and inertia and gravitation are shown to be equivalents of one another

Term in art derived from the Relievo Italian and used for a modelled surface as distinct from sculpture in the round, for decorating walls and other flat surfaces in buildings When the object is in low relief or less than half its natural projection, the term basso relievo is used, in middle relief it is termed mezzo relievo, and when more than half its natural projection, allo relievo An example of relievo work is seen in the Baptistery gates at Florence

Religion No completely satisfactory definition of religion has yet been offered Lueba, in his Psychological Study may be said to indicate an attitude of reverence to the Supreme Being, together with resulting system of behaviour (included) (including

worship)

It seems probable that man's religion began in nature worship To primitive man the world contained many objects which, because they appeared to possess mysterious powers, he believed to be inhabited by spirits Hence he came to think of his world as full of detties needing to be propitiated by worship and sacri fice Thus polytheism arose, particular tribes choosing deities regarded as specially favourable to them In the higher forms of polytheism (cg, Brahmanism) the many gods came to be regarded as so many impersonations of the attributes belonging to the one God but polytheism was not finally transcended until Judaism, followed by Islam and Christianity, arrived at a faith in which monotheism was absolutely fundamental

Remainder Legal term for a bequest of land or other real property to a person after the death of another It was very usual before 1925, but since the legislation of that year land can only be bequeathed like other forms of property The same end can be secured, but by different

means

Rembrandt Rembrandt Harmensz van He was born at Leyden on July 15, 1606, studied painting from an early age, and began as an etcher In 1631 he settled in Amsterdam and devoted himself to his work with great dili-gence. His output was enormous, and there remain still about 600 paintings, 2000 drawings, and 300 etchings. These include landscape work and portrait studies, of which his studies of old age are particularly noteworthy. He was the leader of the reaction against

Italian influence in the Dutch school and strove to replace artificial classicism with colourful paintings from nature He combines in his work a noticeable power with a peculiarly delicate skill He died on Oct 4 1669

Remembrancer Public official In England the King's Remembrancer is a high official in the law courts. the office being held by the senior Master of the Supreme Court In Scotland he is a high official of the Court of Session The City of London has also a Remembrancer, who is one of the chief officials of the corporation.

Remington Philo American inventor Born in Lichfield, New York, Oct 31, 1816, he achieved fame as the inventor of the first typewriter and also of a breech loading rifle He died on April 4, 1889

Remus Brother of Romulus (qv) with whom he is fabled to have founded Rome and by whom he was slain.

Renaissance The Revival of art and letters in Europe during the 15th and 16th centuries. In 1453 Constantinople was captured by the Ottoman Turks Their advance accelerated the migra-tion to Italy of Greek scholars who brought their knowledge of the Greek with them language and gave a strong impetus to the new language and gave a strong imperes to the acceptance of land and Rome was studied with great ardour and the search for old manuscripts was pursued by prince as well as scholar The movement by prince as well as scholar The movement was aided by the invention of printing by ras aided by the invention of printing by John Gutenberg of Mainz in 1438 In England as he could before 1914, distrain without

of Religion, discusses no less than forty-eight the Renaissance was associated especially with different definitions. The term, however, the names of Sir Thomas Man John Collins and Erasmus.

Renan Ernest French historian and philologist He was born in Brittany on Feb 27, 1823 Educated originally entirely under clorical influence, with a view to entering the church, he was forced to abandon traditional Christianity as the result of his study of Hebrew and of German criticism His Vie de Jesus, the first of a series of studies on the origins of Christianity made him famous throughout Europe Among his other numerous works are studies of S Paul and Marcus

Renfrew Burgh and seaport of Ren from Glasgow, and is served by the LMS Rly Renfrew is a shipbuilding centre and has docks There are also engineering works and other industries There is an acrodrome at Moorpark Pop (1931) 14,986

Renfrewshire County of Scotland In the south-west of the country, it is quite small, being only 240 sq m in extent The Clyde cuts it into two un equal parts Renfrew is the county town but much of the county business is done at Paisley The southern and western parts are agricultural districts but in the north are Paisley Greenock, Port Glasgow and parts of Glasgow, There are hills in the south the rivers a tributaries of the Clyde Pop (1931) 288,575 the rivers are

Reni Guido Italian painter Born at Calvenzano, near Bologna, on Nov 5, 1575, after studying with Ludovico Carraci, he went to Rome in 1599 and again in 1605 He painted there his famous Aurora and the Hours' He returned to Bologna after a quarrel with the papal authorities and died there on August 8, 1642 He was famous also as an etcher, and is noted particularly for his colour and expression, and the accuracy of his drawing

Rennes City of France It is the capital of the department of Ille-et Vilaine and the ancient capital of the Duchy of The town was burnt down in 1720 and rebuilt in the style of the period in grey granite The most distinguished building is the Palais de Justice which was completed in 1654 as the seat of the parliament of Brittany It has a broadcasting station (272 M. 13 kW)

Pop (1931) 88,659

Rennet Substance contained in the mem branous lining of an unweaned call's fourth stomach It is used for curdling milk especially in cheesemaking It comprises gastric juices including a ferment, rennin, which contains the completion. It is used by softening affects the congulation It is used by softening the salted lining or vell and adding portions to the milk, or in the form of an extract.

Rennie John Scottish engineer norm as a bridge builder, designing among others the Southwark Waterloo and London Bridges, and also docks at London Liverpool Dublin, Greenock and Hull As a harbour designer he did notable work in the ports of the south coast, including the breakwater at Plymouth He died Oct 4, 1821

applying to the court for permission to do so A payer of rent is entitled to deduct the income, or property, tax paid by him from the amount handed over to the landlord In theory rent is fixed by an economic law

It is the amount which one will pay for land that is of greater value than no rent land as it is called The net value of the crop produced it is called The bet value of the crop produced on such land over the value of that produced on no rent land will be paid by the tenant for its use because the land is worth that much and no more to him The same principle is true of site values A man will pay for a site in Regent Street, London, the amount by which that site productive ralpes to him a cite in exceeds, in productive value to him, a site in the country

This theory, however, needs qualification As regards agricultural land, capital has been put into it in buildings, drainage, etc., so that rent is for the most part interest on capital The rent paid for sites of great value because they are in populous centres is another question and there is some justification for treating these

in an exceptional way in matters of taxation RENT RESTRICTION In 1915, to deal with the changed conditions due to the Great War, it became desirable to restrict the power of landlords to raise rent, as the serious shortage of houses would have enabled them to do this to a very considerable extent. At first only temporary, the restriction has been continued by a series of Acts of Parliament, culminating in the Act of 1920

The Acts apply to dwelling houses built on or before April 21, 1910 where the standard rent does not exceed £105 in London, £90 in Scotland, and £78 clsewhere House in this sense does not include any part of a dwelling house let off separately, or furnished houses or recome. The standard rent is that which was paid in August, 1914

Where a house comes under the Act, the landlord can increase the standard rent by 40 per cent. If he does all the repairs He can also increase it to recover any amount which he has paid in increased rates. If the tenancy has paid in increased rates If the tenancy of a house comes to an end the landlord can have the house decontrolled, and can then charge for it any rent he can get, as can the landlords of houses built since 1919

In 1931 a committee reported upon the subject of rent restriction, advising that it should be discontinued for the larger houses, but continued for the smaller ones. The Rent Restrictions Regulations, 1933, simplified the form scheduled to the 1920 Act, making clear conditions of possession and decontrol.

Rentes Name given in France and Italy Rentes to part of the public debt Rentes are the equivalent of consols in Great Britain, being issued to investors and then bought and sold on the stock exchanges

Rentier One who receives a fixed income on investments in government and other securities In 1930-32 much was heard of the rentier who was said to be in a very favoured position, because while prices and many incomes had fallen, his own income had remained stationary and was, therefore, in terms of commedities, larger than before Renton Town of Dumbartonshire It is 2 m N of Dumbarton, and 16 m from Glasgow by the L.M S Rly Situated on the Leven, the town has cotton industries Here Smollett, the novelist, was born.

in repair falls, by English law, on the landlord in the case of small houses, which are defined as those worth not more than £40 a year in London. £26 a year in larger boroughs and urban districts, and £16 elsewhere In other cases repairs are a matter of contract To take a house on a repairing lease is to undertake to keep it in good repair and to leave it, at the end of the tenancy, in as good condition as it was when taken

Reparations Term used especially for the payments made in money and kind by Germany as compensation money and kind by Germany as compensation for the damage done by her troops during the Great War The principle that reparations must be paid was laid down in the Treaty of Versailles, and a commission appointed to fix the amount. Various sums were suggested, and in 1921, at a conference held in London, the amount was fixed at £6,600,000,000 to be paid over a period of years. A payment was made, but the scheme soon proved impossible, and a moratorium was granted to Germany.

and a moratorium was granted to Germany In 1923 a committee was appointed to inquire In 1923 a committee wis appointen to inquire into the subject and a plan, called the Dawes Plan, was agreed upon This provided for the payment by Germany of certain sums to krance, Great Britain, Italy and Belgium, but the total amount was not fixed Under this plan payments were regularly made until 1928, when it broke down Another committee these when it broke down Another committee then when it broke down Another committee then inquired into the matter and the Young Plan was evolved By this the total sum payable was fixed and Germany was to pay it in annuities ending in 1988 The economic and financial paralysis of 1930-32 made this plan inoperative, and in June, 1931, a moratorium of one year was granted to Germany Before the end of this period Germany stated that she was unable to meet her liabilities in connection was unable to meet her liabilities in connection with reparations, and in June, 1932, a European conference met at Lausanne to effect, if possible, a permanent settlement. This decided to abolish reparations, provided a settlement about war debts was reached In return, Germany undertook to contribute \$150,000,000 towards European reconstruction

REPARATIONS PAYMENTS The following figures are extracted from a return published in June. 1932

RECEIPTS OF REPARATIONS		
	Paid by Paid by Germany Other Countries	War Deht Received
United States	£16,700 000 —	£434 100 000
Great Britain	121 000 000 £200 000	71 300 000
France	273 000 000 300 000	500 000
Italy	58 700 000 1,400 000	100 000
Belgium	126 200 000 100 000	
l ugoslavia	34 200 000 2,300 000	
Rumania	5 600 000 200 000	<del></del>
Portugal	4 000,000 10 000	
Greece	2 100 000 1 000 000	
Japan	4 000 000 10 000	

PAYMENTS OF WAR DEBTS Great Britain £326 200 000 Yugoslavia £1 500 000 1 500 000 1 500 000 109 400 000 31,300 000 7 200 000 France Italy Belgium Rumania Portugal 1,700,000

rery lavoured position, because while prices and many incomes had fallen, his own income had remained stationary and was, therefore, in terms of commodities, larger than before Renton Town of Dumbartonshire It is a making good damage due to wear and tear The duty of keeping a house

Beginn 7 200 000 Greece Litoupour And Theatre in which a resident company gives a repertoire of plays The term is more widely used in England to denote a theatre in which a resident company gives a new play at frequent intervals The most famous repertory theatre was Miss Horniman's Company at the Manchester Galety Theatre, from 1907-16 The oldest existing one is at Liverpool, which has produced many new plays by English and Continental authors.

Among the most famous is the Abbey rountry Among Theatre, Dublin

Reporter Journalist who makes re newspapers Every paper has its staff of reporters, who work under the news cultor, and attend meetings of all kinds to report A knowledge of shorthand essential Cases in the law court are also taken down by reporters or shorthand writers There is an official staff for reporting the debates in the House of Commons formerly it was done

by the firm of Hansard See Journ Lism
Repoussé Form of metalwork It
consists of a raised pattern produced by hammering on the reverse side Many brass articles are ornamented in this way, it is also used for silver

Representation In politics to take persons The word also means to reproduce, describe or bring to the mind To-day all countries persons to the countries persons to the countries persons to the countries to take the persons the persons to take the persons describe or bring to the mind 10-day and vivilised countries possess representative in stitutions as they are called Under this system the people, unable owing to their numbers to rule themselves directly, elect certain persons to do this for them. These representatives are responsible to those who elect them because the latter can refuse to re elect them at the end of their term of office The system arose in England in the Middle

Ages when districts were asked to send men to the county courts for a particular purpose, e g to state who owned certain land, or who had committed a certain crime These men were chosen by their follows and were therefore representatives From this local representation developed the central representative assembly of Parliament (q v) In time other countries followed the example of England until re presentative government has become the rule since the Great War, however, there has been a movement away from it and neither the Fascism of Italy, nor the Soylet system of Russia can properly be called representative

Representatives House of Name of the lower house of Congress of the United States and of the Parliament of the Commonwealth of Australia The former consists of 435 members elected for four years and paid salaries, as well as two delegates and three commissioners territories outside the United States president is the Speaker All legislation needs its assent, but it differs from the House of Commons in that no minister can sit and vote therein They can attend and speak

The Australian House consists of (1932) 76 members who are paid salaries and elected for three years or less It is under a Speaker and resembles the British House of Commons In both the United States and Australia there are orrangements for increasing or decreasing the number of members from the several states according to changes in population

Repression Term used in psycho analysis to describe in stinctive tendencies and memories which are repressed into the unconscious mind Though repressed they remain active and may express themselves indirectly in conduct as neurotic Sec Inhibition, Unconscious evmptoms. SUBCONSCIOUS

There is also a famous one at Birmingham, sentence of death. In Great Britain a person under Sir Barry Jackson, and others on a non sentenced to death can be reprieved by the commercial basis in different parts of the king acting on the advice of the Home Secretary, and this is sometimes done

Reprisals Retaliation, especially in time of war There were cases of reprisals during the Great War especially in connection with the bombing of towns from the air and the treatment of prisoners of war

Process of propaga Reproduction Process of propaga asexual or sexual In protozoa new individuals arise by fission of the adult cell or by budding. In the lower metazoa (multicelled animals) these asexual processes serve also, but in the great majority of the metazoa the sexual form is the rule. The gametes (sperm cell and ova) conjugate and a new cell is formed which conjugate and a new cell is formed which becomes the embryo, undergoing in turn segmentation gastrulation, and thereafter the gradual growth of differentiated tissues and organs within the egg envelope, or safely enclosed within the body of the female parent Some organisms are hermaphrodite and in others parthenogenesis-development from egg cells without fertilisation by the male-may occur In yet other creatures sexual and parthenogenetic generations may alternate See Egg, Embryology

Reptile class of vertebrate animals rank but below birds and mammals. All bear epidermal layers of scales, often shed and replaced. They are cold blooded with three chambered hearts breathe by lungs never by gills, and bear eggs, sometimes hatched within the mother's body Except some herb-cating tortoises, all are flesh-cating Five orders exist, lizards snakes, crocodiles, tortoises and one, formerly important now represented solely one, formerly important now represented solely by the iguana like tuatera of New Zealand Five other orders, which flourished in the mesozoic age, containing the glants of the class, are extinct. Known only from their fossil remains, they include dinosaurs, ichthyo saurs, plesiosaurs and pterodactyls

Village of Derbyshire It is 5 m Repton Village of Derbyshire It is 3 m from Burton-on Trent, on the L M S Rly, and was once the chief town of the Lingdom of Mercia The church is partly Saxon Repton School dates from 1557, its founder being Sir John Port. It has accommodation for

about 500 boys

Republic State in which there is no hereditary sovereign the op posite of a monarchy Most of the Greek states were republics and Rome before the time of Augustus was a great republic Republics were rare from that date until the revolt of the American colonies and the French Revolution, Venice and the United Provinces of the Notherlands being the exceptions France was a republic for a short time after the deposition of Louis XVI and again in 1848 The present republic dates from 1871

In the 19th century several republics came into being, especially in Europe and S America and there were a number of new ones after the Great War, including Germany, Austria Turkey and in a sense Russin Spain was added to the number in 1931 The method of government in a modern republic is very like that in a monarchy except that a president is elected for a certain period, usually four or

seven years

Republican One who believes in a republic, but more exactly Reprieve Release or respite but more | Republican republic, but more exactly the suspension of a member of one of the two great political parties in the United States, the other being the Democrats The party is descended from the anti-federalists of Washington s time, and since the Civil War has been dominant except for a few years Nearly all the presidents since Lincoln have belonged to the Republican party, Woodrow Wilson and Franklin D Rossevelt being exceptions Harding, Coolidge and Hoover have all been Republicans The party is strong among the business men and in the north, it stands for high protection and an extension of the power of the National Government

Requiem In the Roman Catholic Church a mass sung for the repose of the soul of a dead person It is also the name of a musical composition in honour of the dead which is played at funerals and similar services

Reredos Screen at the back of an altar in a cathedral or church Some are of stone adorned with statues and carving, others are of wood with paintings thereon There are some magnificent examples in English cathedrals cg, at Winchester

Research Industrial Scientific study

Research of manufacturing and raw material problems in industry Processes used for ages in industries became the subject of special study only within recent times Research is now carried out by manufacturers and associations and by governments In Great Britain the Department of Industrial Research controls the geological survey and the National Physical Laboratory, and conducts investigations in building, chemistry, food, forest products, fuel, radio and water pollution

Reservation In ecclesiastical usage the elements that have been consecrated at the Mass or Eucharist for future use In the Roman Catholic Church these elements, having become the body and blood of Christ, called the Host, are kept where worship can be paid

Roman Catholic Church these elements, having become the body and blood of Christ, called the Host, are kept where worship can be paid to them

The prayer book of the Church of England allows the reservation of the elements in order that the sacrament can be administered without delay to the sick and dying, but forbids their worship or adoration Nevertheless, the custom of reserving the elements where they can be worshipped is practised by many of the High Church clergy The difficulty of reconciling the conflicting ideas on reservation was one of the chief reasons why the revised Prayer Book was rejected by the House of Commons in 1928-29 The compromise suggested by the bishops allowed reservation but forbade adoration

Reservoir Structure or enclosure for atoring water in large quantities for supplying towns, etc. In some cases a natural lake or an artificial one made by damming a stream is used to store the surface waters over a large area. Another type of storage reservoir is constructed by damming a valley, or it may be entirely artificial, the water being conveyed by an aqueduct or pumped in from a river

Resident in a special sense the representative of a country in a foreign land The term is confined to men sent to represent their country in a state that is under its protection. Thus the Government of India has residents in the capitals of the native states.

Resin Substance which occurs as an exudation from some plants. It appears in globules, which become hard when

exposed to air Resins are insoluble in water but soluble in alcohol, and some oils, and are very inflammable. The soft resins are malleable and are used in medicine as an ointment ingredient, while the hard resins are used chiefly as varnishes, such as mastic, copal and sandarae.

Resistance Term in electricity for the measure of the opposition of a conductor to the passage of an electric current, the practical unit being the olim  $(q \ v)$  All substances offer some resistance to a current, but the amount varies with the nature of the material, its length and cross section Metals offer little resistance and copper the least, hence its use as a conductor With an increase of temperature there is an increased resistance

Resolution a meeting of any kind. It is usual for a resolution to be proposed and seconded, and then discussed and voted upon Any alteration in it must be begun by proposing and seconding an amendment. If this is accepted the resolution may be altered to include the amendment, and then either accepted or rejected. The House of Commondoes some of its business by resolutions. Taxes and duties are put before the House as resolutions before they are included in the Finance Act.

Resonance Sympathetic vibrations of two or more objects, due to the coincidence of their vibratory periods A common example is the greatly increased vibration of some swing bridges, due to the tramp of marching troops The order is usually given to 'break step'

Respiration Process in both plants and animals by which oxygen is absorbed into the body and some of the products of combustion, viz, carbonic acid and water, are removed In unicellular organisms oxygen is absorbed over the general surface but in the more complex animal types special respiratory organs appear In aquatic forms such as fishes respiration takes place through the gills, but in the land animals by means of lungs and the air passages from the mouth

Rest Harrow shrub (Ononio spinosa) of the leguminous order Sometimes of creeping growth, sometimes more erect, the taller growth is spiky, the lower covered with viscid hair. The toughness of the rootstock, both on and beneath the ground, is so great that it is said to arrest the harrow when clearing the ground, so giving rise to its popular name

Restigouche
River of New Brunswick It rises in the Work of the province and flows mainly E until it falls into Chaleur Bay It is 225 m long and during part of its course forms the boundary between Quebec and New Brunswick It is famous for its salmon fishing

Restoration Act of restoring It is used specially for the restoration of a sovereign, or his successor, to a throne The most notable instance in English history was the return of Charles II in 1660 which is called The Restoration Other famous restorations were those of the Bourbons in 1814 and again in 1815

Resurrection Rising again of the hody and its reunion with the soul Very few traces of this Christian belief are to be found in the Old Testament

It appears to have developed during the period 'between the testaments," probably owing to the Persian influences of the Exile By New Testament times the doctrine had been accepted by the Pharisees in opposition to the Sadducees The Christian belief in the Resurrection is based on the rising of Jesus from the tomb, and His appearances to the disciples See IMMORTALITY

Resurrection Men Popular term between 1760 and 1835, used to denote a class of men who drove a flourishing trade by exhuming newly buried corpses and solling them to the medical schools for dissection The practice is referred to by Dickens in his Tale of Two Cities

Reszke Jean de Pollsh singer Born was educated at the university there He studied in Italy and soon made his first appearance in opera. He appeared in London in 1875 and regularly from 1888 to 1900 Beginning as a baritone he became a tenor and was regarded as one of the finest tenor singers in the world until his retirement in 1914 He died on April 3 1925

3, 1925
His brother Edouard de Reszke, was born at Warsaw, 1855
He became a famous bass and appeared at Covent Garden with his brother from 1888 to 1900
In later life he taught singing
He died May 29, 1917

Retaining Wall Term in civil engineering applied to a wall which supports a bank or terrace preventing horizontal movement of the material Retaining walls are employed for supporting embankments, quays, canal banks reservoirs weirs, mountain roads, etc., their form and construction varying greatly with the character of the forces brought to bear upon them

Retford East Borough and market town of Nottinghamshire on the Idle 138 m from London by the LNE Rly There are corn mills, engineering works and other industries, and also a trade in agricultural produce Pop (1931) 14,228

Retina Innermost layer and lining memball The retina is an expansion of the eye nerve and forms the receiving nervous surface upon which images are formed by light rays entering the eye It consists of twelve layers, the most important being the layer of rods and cones which transmit visual impulses to the order perve and brein

the optic nerve and brain

Retort Vessel or chamber used for dis

Retort tilling or volatilising substances
by the aid of heat or chemical action, the
volatile products being conveyed to a receiver
for condensation In the chemical laboratory
retorts of glass, carthenware etc are used,
but for manufacture of coal gas on a large scale
the retort takes the form of a large iron or fire
clav chamber, and in the extraction of zinc,
mercury, etc from their ores, special iron or
fireelay vessels are used

Retriever Sporting dog, There are four varieties The flat haired is evolved from the mating of a setter and a Weish collie sheep dog The curly haired has a poodle strain and is good either in water or in the field The golden haired is highly ornamental and has all retriever qualities. The Labrador, besides being an excellent gun dog, is popular as house dog and pet It has a smooth black coat

Returning Officer official responsible for the proper conduct of an election. In Great Britain the returning officer is the mayor or provost of the boroughs, and the high sheriff in the counties. To him the writ is addressed and he is responsible for the arrangements for the election, and for the counting of all votes and the declaration of the result. The bulk of the work is done by the clerk to the county council and his staff.

Réunion French island It is in the Indian Ocean, 420 m E of Madagascar It was discovered by the Portuguese early in the 16th century, annexed by France in 1649, and occupied by Britain between 1810 and 1814 The capital is St Denis, the chief port Point des galets and the Island is 970 sq m in area Pop (1931) 197,933

Reuss German district It was formerly two principalities, Reuss Greiz, ruled by the elder line and Reuss Schleiz Gera, by the younger line At the close of the World War, they became part of the republic of Thuringia The district, which covers an area of 450 sq m, is situated N of Bavaria and W of Saxony More than a third of this is forest land Pop 226,000 Before 1918 the principalities were ruled by a family who all bore the Christian name Heinrich.

Reuters International agency for the Reest, tounded by a German, Paul Julius de Reuter, in 1840 He began with a pigeon post between Brussels and Aix la Chapelle and in 1851 he became a British subject, and started a news agency in London He controlled the business, which became a limited company in 1865 until his death, Feb 25, 1899 In 1916 Reuters was bought by a syndicate The headquarters are on the Thames Embankment London E C

Reval Capital and seaport of Estonia, and 250 m. from Leningrad It is also called Tallina At the beginning of the Great War, the province, of which it was the capital, was a part of the Russian Empire After the war, it was established as an independent republic, with its own National Council meeting at Reval Reval has extensive shipyards and exports textiles, timber, paper, etc., of local manufacture An International Industrial Fai is held each year in June Pop (1932) 134 000

held each year in June Pop (1932) 134 000

Revelation Book of Last book of the
Eventual Bible It is the only
example contained in the New Testament of an
extensive Jowish apocalyptic literature (cf.
Book of Daniel in O T) The book is typical
of apocalyptic writings in that (1) it arose out
of conditions of terrible trouble (the persecution
of the Church by Domitian) (2) its message
is expressed in a mysterious form of dream
and vision, (3) it seeks to comfort those who
are sorely tried in the present, by bidding them
look forward to a great divine triumph in the
future

Revelstoke Baron English financier Born in 1863 John Baring succeeded to the barony on the death of his father, the first Lord Revelstoke, in 1897 He was a partner in the banking firm of Baring Bros, a director of the Bank of England and a privy councillor He dled in 1929

Revenue Term applied to the income

Revenue Term applied to the income of a government or state It is largely derived from taxation, direct and indirect. See TAXATION, CUSTOME,

Reversion Term in biology applied to the fact that species tend to reproduce in some of their characteristics some ancestral type In domesticated animals where different breeds have been crossed there is a tendency to an occasional reversion to an ancestral form, and this may occur also in pure breeds In some cases the reversion appears to be the result of some irregularity in develop-ment of the germ cell In the case of atavism a feature is reproduced in the individual that was present in a former generation

In law reversion means the right which remains to the grantor of property when the agreement made by him with the grantee expires, e.g., the owner of land who grants a lease of it for a term of years is said to have the reversion of it on the termination of the

Revival Renewal of interest, chiefly used for periods when great interest is taken in religious matters Protestant evangelicals believe in revivals, which are also popular in some parts of the United States One of the greatest religious revivals was associated with the name of John Wesley A revival of another kind was the revival of learning in the 16th century provides and the contraction of the learning in the 16th century provides and the contraction of the learning in the 16th century provides and the contraction of the learning in the 16th century provides and the contraction of the learning in the 16th century provides and the contraction of the learning in the 16th century provides and the contraction of the learning in learning in the 16th century, usually called the Renaissance (q v)

Revolver Type of pistol having a re volving cylinder containing a number of chambers for cartridges, which are fired in turn by a one lock mechanism. The modern revolver is self-ejecting and in the automatic type the force of the recoil is utilised to eject the empty cartridge, cook the revolver and reload it.

Revue Theatrical production It is a medley, partly musical, and con taining topical allusions in its songs and speeches It was introduced into Britain from France in the 20th century and became very popular after the Great War When it originated in France, it was a satirical and humorous review of the events of the year and was produced in December It was called in full La revue de fin d'année

Reykjavik Town and capital of Ice the SW corner of the island It has a cathe dral and a university and is the seat of the Althing, or parliament Its broadcasting station operates at 1200 M, 21 kW It exports fish, skins, and butter Pop (1931) 28,847

Reynolds Sir Joshua English painter Born at Plympton in Devonshire, July 16, 1728, he studied art under Hudson, himself a leading portrait painter, and soon surpassed his teacher, becoming the first president of the Royal Academy in 1768 The following year he was knighted, and in 1784 received the appointment of painter-in ordinary to George III His friends included such distinguished men as Burke, Johnson and Goldsmith, whose portraits are among his finest works, which include the famous "Mrs Siddons as the Tragic Muse" He wrote the Discourses, a series of addresses on art He died Feb. 23, 1792

Rhadamanthus in Greek legend one dead in Hades A son of Zeus and Luropa he was made a judge because of his reputation for justice

Rhayader Market town of Radnor-shire, on the Wvo, 212 m from London by the GW Rly It is a centre for the sale of sheep and farm produce generally

About 4 m from the town, among the hills, are the huge reservoirs that supply Birmingham with water

Rhea American ostrich, represented by three species, all found in the pampas of S America. It has three toes on the feet, unlike the African ostrich, which has two, and is smaller than the African bird The eggs are laid in a shallow excavation on the ground, and the male is said to hatch them

Rhea In Greek legend a daugnter of Uranus and Ge (the earth) She was the mother of Zeus, Hera, Poseidon and Pluto, and was worshipped as the goddess In Greek legend a daughter of of fertility She is represented in art as wearing a crown and attended by lions

Rheims City of France, 98 m E.N E of Paris Founded in pre-Roman times, it became Christian in the 3rd century Hore Clovis (q v) was baptised in 496, and later kings were consecrated here, including Charles VII in 1429, at the instance of Joan of Arc, who won the city back from the English Rheims is famous for the cathedral of Notre Dame, begun in 1212, one of the finest examples Dame, begin in 1212, one of the liness examples of Gothic architecture, its facade having been one of the greatest medieval masterpieces Another notable monument is the Mars Gate, a triumphal arch, probably of the 3rd or 4th century During the Great War the city suffered severely, even the cathedral being extensively damaged by the German bombard-mort Dectoration was carried out after the ment. Restoration was carried out after the War

Rheims is an important centre of the woollen

industry, and the manufacture of the woolen industry, and the manufacture of champagne is important Pop (1931) 112,820

Rheostat Electrical Instrument devised for varying an electrical resistance in a circuit and used in diverse forms for controlling direct current motors, as motor starters, and in wireless apparatus. In one type, the circuit is connected with a movable arm whose free end is moved over a series of brass studs, each connected with a resistance coil and the end one with the circuit.

Rheumatic Fever or Acute Rheumatic Fever matism Disease characterised by inflammation and pain in the joints, with fever In voung persons the heart is very likely to become affected. The attack, which continues for a period varying from two to six weeks, may sometimes be marked by little pain and slight increase of temperature. In fact, "growing pains" of temperature are often a manifestintion of such as children are often a manifestation of such an attack Any indication of acute rheumatism demands immediate attention by the physician Sec Rheumatism

Rheumatism Popular name for various painful diseases of joints or muscles, including lumbago, abrositis, or inflammation of the fibrous tissue of muscles, or inflammation of the fibrous tissue of muscles, rheumatoid arthritis, or inflamed membranes and fibrous tissue of joints, and acute rheumatism, or rheumatic fever (qv) Inflammation and stiffness with great pain are associated with all these conditions. The so-called "growing pains" of children are due to acute rheumatism. Rheumatoid arthritis is Rheumatoid arthritis is brought about by bacterial infection originating perhaps at some distant focus such as teeth or tonsils Chronic rheumatism is often caused by a septic focus in teeth, tonsils, nose or digestive

tract, etc

Treatment should aim at removing the infective cause and raising the general health Spa treatment, massage and the use of electrical

appliances offer the best hope of relief. Five drops of tincture of lodine in a wineglassful of water once or twice daily is usually bene ficial, and intestinal poisoning may be remedied by a course of bacillus acidophilus emulsion or a lactic acid preparation Attention should be paid to the diot, omitting salt and sugar as much as possible, and replacing meat, with dairy products and vegetables

Children with a tendency to rheumatism should have plenty of good food, fresh air, warm clothing and rest, with a limited meat dilet Damp garments, exposure to a damp atmosphere, fatigue and heart strain must be exceled the greated are that

specially guarded against.

Rhine European river It rises near the St Gothard Tunnel and flows for It rises near the the first 250 m of its course through Switzer land, the next 450 through Germany, and the last 100 through Holland, where it divides into North and South, the south branch joining the Mans, while the north empties itself into the Zuider Zee It is connected with central and southern France by the Rhine Rhone and Rhine Marne canals, and with the Danube by the Ludwigskanal From the carliest times it has been one of the chief waterways of Europe and formed a natural defence for the Roman Empire against the barbarians Its total length is 800 m and the area of its basin 75,700 sq m

Rhineland German province, on the W of Prussia, bordering on Beigium and Luxembours, and drained by the Rhine and its tributaries. It has a population of 7,256,978 and an area of 9478 sq m, nearly a third of which is forest land. The Rhineland contains the important vine-growing district of the Moselle the famous Ruhr coal fields and a number of great industrial centres, including Essen, Dusseldorf and Cologne

Rhinitis Affection of the nose arising from inflammation of the mucous membrane Cold, dust, acrid fumes, or pollen from grass or flowers may induce an attack. It takes the form of acute catarrh, accompanied by thick mucous discharge

Ungulate mammal of the Rhinoceros Ungulate mammal of the order Perissodactyla A clumsy, heavily built animal 5 to 6 ft high at the shoulders, it is timid and nocturnal, frequenting swampy regions, where it feeds on herbage, young shoots, etc There are one or two horns on snout or forchead In the Indian species the thick warty skin is disposed in folds which give the appearance of a coat of armour, and there is one horn. The white rhinoceros, 6 ft. high, is the largest and, with the black species, is native to Africa. Smaller species are met with in Sumatra and Java.

Rhode Island State of the United States The smallest in the union, it covers only 1300 sq m, of which 2469 sq m are water It has a coastline on the Atlantic and includes several islands on the Atlantic and includes several islands. Providence is the capital other places are Pawtucket, Woonsocket, Newport and War wick. It is governed by a legislature of two houses and sends two representatives and two senators to Congress. The chief industries are manufacture, there is only a little agriculture lihode Island was settled by people from Massachusetts and became a separate English

and kaolin is mined. It was a great centre of Greek culture, equally famous for its artists and its rhetoricians, and its code of maritime law has influenced modern European law It was part of the Roman and Byzantine empires From 1300 to 1523 it was the head quarters of the Knights Hospitallers, from 1523 to 1918 it was a Turkish possession and after the Great War it was assigned to Italy The capital and chief scaport is also called Rhodes. On the NW coast of the island,

its hospital, now a museum, was built by Knights Fospitaliers when they ruled here In the street of the knights some of their houses still stand Pop 12,000

Rhodes Cooll John English statesman Born July 5, 1853, at Bishops Stortford, Horts he was sent to 8 Africa for his health He amassed a fortune at Kimberley, returned to England fired with the ideal of extending British possessions in Africa, and entered Oriel College, Oxford Returning to entered Orici College, Oxford Returning to S Africa, he entered politics in 1881 In 1884 he was deputy commissioner in Bechuanaland, which he made a British protectorate in 1885 and in 1889 he formed the British South Africa Company to penetrate northwards Prime Minister of Cape Colony from 1890 to 1896, his ministry ending owing to his connection with the Jameson Raid (qv) He now turned his attention to the development of Rhodesia, to which he devoted the rest of his life He died March 26, 1902 In his will he bequenthed some six million pounds for the founding of Rhodes Scholarships at Oxford Thirty four scholars come each year from the British Empire, thirty two from the United States and two from Germany Imperial and American students hold their scholarships for three years the Germans for two

Rhodesia British S African territory stretching from the Transvad northward to Tanganyika Territory and the Belgian Congo Bounded on the east by Portuguese East Africa, Nyasaland and Tanganyika Territory, and on the west by Belgian Congo Portuguese West Africa and Bechunnaland it is divided into two regions, Northern Rhodesia, a British territory, and Southern Rhodesia a self governing British colony Historically, both areas must be treated as

Historically, both areas must be treated as one, the modern history of Rhodesia beginning in 1888 when the British, through Coell Rhodes, made a treaty with the Matabele king, Loben gule, giving the right to seek and work minerals in the country. The British S Africa Company, formed by Rhodes, then began the penetration of the country, and settlement proceeded, interrupted by the Matabele War, the Jameson Raid and the S. African War. Rhodesia did not enter the Union in 1910, and in 1914 the Company a charter was renewed for ten years, but the mineral rights in S Rhodesia were purchased by the government in 1933 for \$2,000,000 Southern Rhodesia was annoxed as a crown colony in 1923, while Northern Rhodesia was separately administered from 1911, being taken over by the British Govern ment in 1924 Much has been done by offering loans and improving social services to attract settlers to the land

Northern Rhodesia is a high plateau, the watershed of the Congo and the Zambesi, and Colony in 1663 It is one of the 13 original states of the union Pop 687 500 mainly agricultural maize, tobacco cotton and fibro being grown some cattle ranching is carried on It is administered by a governor, with an excutive council and a legislative of 28 q m in area. Vines and fruit are grown council of 16 members. Copper, zinc, lead and council of 16 members Copper, zinc, lead and

gold have been discovered, copper in large quantities Livingstone, near the Victoria Falls, is the administrative centre Area, 290,320 sq m. Pop (est, 1933) European, 11,278, native, 1,371,213

Southern Rhodesia is part of the great South African plateau, lying in part between the basins of the Zambezi and the Limpopo Silver, copper, coal, diamonds and minerals are produced cattle are raised other cattle are raised, and maize, cotton and citrus iruits are exported Administration is by a governor, with a legislative council and a legislative assembly of 30 members Salisbury is the capital, but Buluwayo is larger Area, 150,344 sq m Pop (est, 1933) 1,212,000, of whom 52,950 are whites

At a joint meeting of the Legislative Council of N. Rhodesia and delegates from all political parties of S Rhodesia a resolution was passed on Jan 24, 1936, proposing amalgamation of the Rhodesias as a self governing colony

Rhodendron Genus of ornamental flowering shrubs and trees of the order Pricaceae First introduced into England in the 17th century, they are now commonly grown They will thrive in ordinary soil that does not contain lime or chalk A little peat is an advantage, and protection from cold winds is desirable

Rhondda Urban district of Glamorgan-shire, 16 m from Cardiff, on the GW Rly It consists of a number of mining centres in the valleys of the rivers Rhondda Fawr and Rhondda Fach, united in 1897 into an urban district, one of the largest in the country Among the villages included are Tylorstown, Ferndale, Treherbert, Tonypandy and Pentre The staple industry is coal mining Page (1931) 141 344 and Pentre The sta Pop (1931) 141,344

Rhondda David Alfred Thomas, first Viscount. British coal-owner and statesman Born in Aberdare, March 26, 1856, the son of a coal merchant, on leaving Cambridge he entered his father's business He represented Merthyr Tydvil, and later Cardiff in Parliament, and was president of the Local Government Board, 1916-17 He rondered great services to the country during the war, first at the Ministry of Munitions and later as Food Controller (1917) as such he introduced rationing, controlled prices, and preduced rationing, controlled as Food Controller (1917) as such he intro-duced rationing, controlled prices, and pre-vented speculation He died July 3, 1918

Rhône River of Switzerland and France It rises on the W slopes of Mt St. Gothard in Switzerland in the famous Rhône glacier at a height of 6000 ft During the greater part of its upper course it is little more greater part of 118 upper course it is inche more than a mountain stream After flowing through the whole length of Lake Geneva, it follows a winding course to Lyons, where it becomes navigable Thence it flows in a southerly direction into the Gulf of Lyons Its length is 500 m and the area of its basin 28 170 cm. 38,170 sq m

Rhubarb Herbaceous plant of the genus Rheum and order Polygonaceae A native of Siberia, it is widely cultivated in other countries for its edible stalks, which are stewed or made into tarts, and used also as preserves Medicinal preparations are made from root and stalks The leaves are poisonous

Rhyl Watering place and urban district of Flintshire, on the coast, 30 m. from Chester by the LMS Rly Here the River Clwyd falls into the sea The sands are good, and the attractions include a marine lake and winter gardens Pop (1931) 13,489

Rhythm Metre of music It governs not the constituent bars, but also the symmetrical planning of melody into sentences, phrases and smaller sub-divisions It is the third essential element of music

Rib In anatomy the name given to one of the series of twelve pairs of arched bones forming the wall of the thorax The ribs articulate with the backbone behind, but in front the first seven join the breast bone, and of the remaining five three have the extremities united and two remain free

The term rib also refers to the timbers strengthening the sides of a ship, and in architecture to a narrow moulding on a wood

ceiling

Ribble River of England. It rises on Whernside in Yorkshire and flows into Lancashire to the Irish Sea beyond Preston, a length of 75 m, ending in a large estuary. The sea is receding in the estuary The picturesque district through which the river flows is called Ribblesdale

The title of Baron Ribblesdale was borne by the family of Lister from 1797 to 1925 Lister, MP, a Lancashire manufactu Lister, MP, a Lancashire manufacturer, was the first holder Thomas Lister, the 4th baron, was a prominent social figure He died Oct. 21, 1925, and his only son, Charles, having been killed in the Great War, his title then became The family seat was Gisburne Park. extinct near Clitheroe

Ribbon Fish Deep sea fish (Regalescus)
Sea, Atlantic and Mediterranean It has a Sea, Atlanto and Medicerranean it has a thin, narrow, elongated body along the length of which is borne the dorsel fin At the head the fin has lengthened rays which form a kind of crest, and the ventral fins are long and thin, with an expansion at the tips It reaches a length of 18 ft, and is also known as the oar fish

Ribbon Grass (Phalaris arundinacea variety of tall grass with broad, striped leaves of green and white The wild weed grass of the same genus grows in damp and marshy

places, but ribbon grass grows easily in any soil It is also known as gardeners' garters

Ribchester Villago of Lancashire, on Blackburn Here the Romans had an important station called Brenntonacum Excavations have revealed many Roman remains for which a museum has been opened.

Rice Dressed grain of the annual grass, or a satura Grown in vast quantities in the east as the principal food, it is also cultivated in the USA, Africa, S Europe and elsewhere Though grown chiefly in wet land, the young plants being set out actually under water which subsequently dries, some varieties require drier conditions For Europe, rice is specially dressed, somewhat reducing its value as food Rice possesses less fat and protein than other cereals, but the small starch grains are easily digested

Rice Paper Smooth white paper made from the pith of Falsia papyrifera, a small tree of the ivy family growing in Formosa The pith is removed and cut into thin sheets which are pressed firmly together Rice paper is used in China and Japan for painting on, and also for making artificial flowers Dressed grain of the annual grass

artificial flowers

Richard I. King of England The third Sichard I. son of Henry II, he was born Sept 8, 1157, and made Duke of Aquitaine

in 1170 He passed his time in fighting against his father and with his brothers until 1189, when he succeeded Henry as king He reigned for ten years, but passed only a few months in England He took a leading part in the Crusades and won a great reputation as a warrior In 1192 he was taken prisoner in Germany and remained a captive until 1194, when a large sum was paid for his release He was killed in battle at Chalur, April 6, 1199 He married Berengaria, daughter of the King of Navarre, but lett no legitimate children His successor was his brother John

Richard II King of England. Son of born April 13, 1366, succeeding his grand father, Edward III, in 1377 With the exception of eight years 1389 to 1397, his reign was full of trouble Taxation was heavy, and risings took place in many parts of the country, the most serious being that of Wat Tyler (1381) The preaching of the Lollards (qv) helped to increase the discontent. Henry of Lancaster forced Richard to abdicate in Sept., 1399, and Parliament condomned him to perpetual im prisonment He was almost certainly murdered, not long after his abdication

Richard III King of England He Throughout the reign of his brother, Edward IV, he gave him loyal assistance, and was duly rewarded with many high offices, but on his death he usurped the crown from his nephew, Edward V, whom, together with Edward's younger brother, the Duke of York he is believed to have had murdered in the Tower He met his death Aug 22, 1485, fighting against Henry of Richmond at Bos worth The chronicles of this reign are wholly Lancastrian in origin and the traditional character of Richard is not borne out by modern historical research.

Richardson Samuel English nove in 1689, he became a successful London printer At the age of 50, he was persuaded to write Pamela (1740), a description in the form of letters of the trials of a virtuous country girl This was followed by Clarissa (1748), and Sir Charles Grandison (1753) He may be regarded as one of the originators of the modern novel His writings reveal a special understanding of women. He died July 4, 1761

Richardson Thomas English cricketer Born at By fleet in Aug 1870 he played for Surrey in 1892 and for the next few years was the chief bowler in the team He also played for England against Australia in his own country in 1893 and 1896, and also in Australia He died July 3, 1912 Many judges consider Richardson the finest fast bowler who has ever lived

Richborough Scaport of Kent, on the estuary of the Stour, just outside Ramsgate There are some rulns of a fortress built by the Romans who had an important station here In 1916 a port was established here for sending men and material to France A harbour was made in the estuary and a train ferry begun After the war the works were sold in order to make the port suitable for shipping coal

Richelieu River of Canada It rises in Chelieu Lake Champlain and falls into the St Lawrence at Sorel It is 80 m long, and forms part of the water route from the Hudson to the Great Lakes

Richelieu Armand Jean du Plessis, duc

minister of Louis XIII He was born in Parls, Sept 5, 1585 Consecrated Blahop of Lucon in 1607, he was made cardinal in 1622, and chief minister in 1624 His policy had three great aims the suppression of the political power of the Huguenots, the vindication of the royal authority, and the security of France against the threatened domination of the Habsburgs He was successful in his aims, largely owing to the consistent support of the

largely owing to the consistent support of the king He died Dec 4, 1642

Richmond Borough of Surrey, on the Thames, 9 m from London, by the S and District Rilys It includes Kew and Petersham and is famous for its beauty spots, especially the hill overlooking the Thames near where the Star and Garter Hotel once stood, and where are now the terrace gardens A bridge crosses the Thames here There is a meteorological observatory Pop (1931) 37,791

Richmond Park, where there was once a royal residence, is still Crown property. It covers 2250 acres and stretches from Sheen to Kingston and in the other direction as far as Wimbledon. It contains deer and some fine old trees and in it are White Lodge, Sheen Lodge and other residences.

Richmond Borough and market town of Yorkshire (N R), on the Swale, 50 m from York, on the L N E Rly The church of Holy Trinity in the market place and the tower of a monastery are of interest On the hill are the keep and other remains of a large and magnificent castle, while below an old bridge crosses the river The town has an agricultural trade and races are held here Richmond was, in the Middle Ages, the chief town of an honour, ie a great feudal estate Pop (1931) 4769

Richmond City and seaport of Virginia, capital of the state It stands at the mouth of the James river, 115 m from Washington Its fine buildings include the State Capitol, a replica of the Maison Carrée at Nimes, and the Valentine Museum The house in which the President of the Confederate States lived during the Civil War is now a museum and there are monuments to Washing ton and Lee The industries include shipping, especially of tobacco, and manufactures of machinery, motor vehicles and fancy goods Pop (1930) 182,929

Richmond Sir William Blake English painter and decorator Born in London, Nov 29, 1842, his first Academy picture, in 1861 showed the influence of Italy, where he studied for some years On his return in 1869 he exhibited A Procession in Honour of Bacchus" at the Academy He became Slade Professor at Oxford, and was elected A R.A. (1898) and R A (1895) In 1896 he became Professor of Painting to the Royal Academy He did decorative work in St. Paul's Cathedral He died Feb 11, 1921

Richmond and Gordon, Duke of British mond appears in the 11th century, when william I conferred the title on Alan Rufus, son of the Count of Brittany Henry VIII created his natural son Henry Fitzroy, Duke of Richmond Charles II s natural son, Charles Lennox, created by him Duke of Richmond, was the ancestor of the present Duke of Richmond and Gordon The third duke (1734-1806) was noted for his advocacy of manhood suffrage, annual parliaments, and other electoral changes The fifth (1791-1800), on inheriting

the estates of his maternal uncle, the last Duke of Gordon, assumed the name of Gordon. The present holder of the title, Frederick Charles Gordon-Lennox, the ninth Duke, was born in 1904 and succeeded his father in May, 1935 Richthofen Baron Freiherr von Ger-man military airman During the Great War he was the leader of the famous "Circus" on the western front, and probably responsible for the defeat of more British and French airmen than any other enemy aviator The German higher command claimed for him 80 victories in single combat He was brought down and killed on the Somme on April 23, 1918

Rickets (or Rachitis). Disease of deferdeficiency disease, due to absence or insuffi-ciency of the antirachitic vitamin D in the food It shows itself in the early months of infancy, by soreness of body, restlessness, poor appetite and bad digestion Later there are changes in and bad digestion Later there are changes in the bones, the leg bones becoming bowed, the

chest flattened, and the back humped

Treatment —Improve the general hygiene and do not allow the child to stand or walk Give a diet rich in vitamins and fats (fresh milk, cream, orange juice, raw turnip juice, cod-liver oil) Ultra-violet light treatment and exposure to air and sunlight will greatly improve the condition Natural feeding from birth prevents the occurrence of rickets

Ricketts Charles English painter He was born in Geneva Oct 2, 1866, and educated in France He founded 1866, and educated in France He founded the Vale Press, and was publisher of the Vale books His pictures are found in the National Gallery and in the Luxembourg, Paris He gained fame as a stage decerator, providing designs for King Lear, St Joan, King Henry VIII, Macbeth, The Mil ado, The Gondoliers He was elected R.A. in 1928 and died Oct. 7, 1931

Rickmansworth Urban district of Hertfordshire 18 m from London, where the rivers Chess and Colne unite Itis on the L M.S and Metropolitan Rlys Brewing and printing are industries The Grand Union Canal passes by the town Pop (1931) 10,810

Rickshaw Shortened form of in-It is a small carriage on two wheels covered with a hood, and is drawn by one or two men Rideau River of Canada A tributary of the Ottawa, it rises in Lake Rideau about 40 m from the city of Ottawa There is also a canal called the Rideau, which goes from Ottawa to Kingston on Lake Ontario and is 125 m long Rideau Hall, at Lake Ontario and is 125 m long Rideau Hall, at Ottawa, is the residence of the Governor-General

Riding Word meaning a third, used for Riding the divisions of the county of York, which is divided into three ridings West, East and North The three meet at York The Irish county of Cork is also divided into three ridings See Yorkshire Ridley Nicholas English bishop and martyr Born about 1500, he was a devoted leader of the reformed faith and one of the compilers of the English Prayer Book (1548) In 1550 he succeeded Bonner as Bishop of London, when the latter was deprived of his of London, when the latter was deprived of his see On the death of Edward VI, he supported Lady Jane Grey in opposition to Mary, and when Mary became queen, he was arrested and tried for heresy He was burned at the stake in Oxford Oct 6, 1555

Rienzi Cola di Roman tribune Born c. 1313, his aim was to restore the former glory of Rome by putting an end to the disorders which prevailed in and around the city. In 1347 he led a successful rising against the nobles, and took the title of Tribune with dictatorial power Encouraged by this triumph, he essayed to unite all Italy in a great republic, with Rome as capital, but he soon began to show the most incredible vanity, which caused the people to withdraw their support. He was killed in a popular rising, Oct 8, 1354

Rievaulx Village of Yorkshire (NR), 3 LNE Rly Ruins of a Cistercian abbey, yery extensive and beautifully situated, now belong to the nation and a certain amount of restoration work has been done. The word means "the valley of the Ryc," this being a small river that flows past the ruins

District of Spanish Morocco It is a mountainous region near the coast, chiefiv known because its inhabitants, of Berber stock, are constantly at war with Spain

Rifle Firearm of the musket class characterised by having its barrel spirally grooved to give greater accuracy in firing owing to the rotary motion given to the bullet. Progressive improvements have been made Progressive improvements have been made since the early 19th century by the adoption of a breech loading mechanism, the use of smokeless powder, and the magazine There are many types of rifles, both military and sporting, the former ranging from 256 to 315 inch bore, and the latter 360 to 600 inch In 1859 the National Rifle Association was formed for the promotion of rifle shooting and holds its meetings at Rislay

holds its meetings at Bislev

In 1800, a regiment known as the Rifle Brigade was raised and served with distinction in various wars up to the Great War, when its death roll was 11,245
Another distinguished regiment, the King's Royal Rifle Corps, was formerly the 60th Foot, dating from 1755
Both regiments have their depots at Winchester

Riga Seaport and capital of Latvia It stands on the river Dvina, 7 m from its mouth in the Gulf of Riga It exports flax its mouth in the Gulf of Riga. It exports flax and wood, and as a rail outlet for the interior of Russia is now (1932) beginning to recover from the set-back it received through the economic collapse of that country. It has a broadcasting station (525 M, 15 kW) Riga was founded in 1158, and was for a time a member of the Hanseatic League. It fell to Related in 1561, was taken by Gradow in 1661. Poland in 1561, was taken by Sweden in 1621, and finally by Russia in 1710 Occupied by the Germans from 1917-19, it became capital of Latvia on the creation of the republic S Peter's church and the castle both date from the 15th century Pop 338,000

Rigging Term used in the narrower sense for the cordage or tackle of a sailing ship, but more usually in the wider meaning which includes also the masts, yards, sails, etc Sailing ships fall into two groups, the fore and aft rigged as in a schooner, and the square rigged. square-rigged as in a full-rigged vessel. steamships rigging is reduced to the masts and tackle used in lifting cargo or as wireless aerials

Right In politics any party holding moderate views, the opposite of the Left Its use in this sense is due to the fact Left that in 1789 when the National Assembly met at Versalles the moderate members sat, at first by accident, on the right side of the room.

Right of Way Phrase meaning the right of the public to question of custom If a way over land has existed without interruption for 20 years, it is for over a right of way Many landlords close the footpaths on their estates for one day in seven years, or some other period, in order to prevent a right of way being established This is done in the district of London that belongs to the Inner and Middle Temples In 1931 an act of parliament was passed, assuring right of way to the public.

R1g1 Swiss mountain It rises, an isolated mass, between the lakes of Lucerne on the S and Arth on the E run to its summit, Rigi Kulm which is 5906 ft high and commands one of the world a most famous views of glorious

Alpine scenery

Rigidity
Term in physics applied to resistance to change of form, that distinguishes solide from fluids. In the ideal state of rigidity the component particles of a body retain their relative position to one another although the whole body may move, but such a condition does not exist in nature as all substances under go some degree of deformation

R1g Veda Hindusacred literature The Rig Veda is the most important and the oldest of the four extant collections of Hindu Scriptures It consists of 1028 prelses or hymns in the Sanskrit language arranged in 10 books The date at which the collection was made is believed to be about 1000 BC It is an important source for the study of Hindulsm

Rimmon Assyrian thunder god The name is mentioned in 2 Kings will, in a passage where Naaman after he has been healed by Elisha, seeks pardon from the prophet if in the course of his official duties as a captain of the host of the King of Syria' he worships in the Temple of Rimmon at

Damascus

Rimsky-Korsakov Nicholas Andslan composer He was born at Nijni Novgorod on March 18 1844 After service in the navy he became (1873) a professor at the St Peters burg conservatoire and conductor of the Russian symphony concerts From 1878 1907 he composed a succession of operas characteristic by light and colour and dealing with Russian subjects He died June 2, 1988

Rinderpest Cattle plague In the form tagious fever, it is the most serious disease to which cattle are liable, proving fatal after 6 to 10 days A serious outbreak in 1865 is estimated to have caused the death of 250,000 cattle in Britain The plague of 1877 was less deadly and there has been no recurrence of the disease in Britain since

Ringbone Disease of the horse It shows itself in an osseous growth on the pastern bones and may be due either to injury or to rheumatic tendencies. In the latter case it is hereditary Complete rest is an essential part of the treatment, and a cold water compress may be found useful in giving relief

Ring Dove (Columba palambus)
Common wood pigeon. It derives its name
from the light feathers that give the effect
of a ring on its neck Common in the British

Isles and Europe, it frequents open spaces in cities, as well as the countryside, assembling together in flocks A voracious feeder, it causes much damage to crops in its quest for food

Ring Ousel Species of mountain song bird (Turdus lorquatus) of the family of thrushes Common in Scandinavia and other parts of Europe, it is a summer visitor to the British Isles from April to October It breeds in the mountainous districts of the N, in the Peak district and the wilder parts of Devon and Cornwall Somewhat larger than the common blackbird the plumage is black with greyish margins and a crescent of white on the breast. It nests usually in heather or grass sometimes on a low ledge of rock. It feeds on snells slugs and insects

Ringwood Market town of Hampshire on the New Forest Brewing and glass making are industries Pop 1600

Ringworm Contagious skin disease caused by species of fungus and the common among children of school ago, it usually appears in the form of a small irritating round patch among the hair on the scalp As it is highly contagious, medical treatment should at once be obtained and precautions taken to prevent spreading the infection Ringworm of the beard, tinea barbi, is a form very difficult and tedlous to treat Cats, dogs and other animals are subject to ringworm, which can be communicated by them to human beings. Its medical name is timea.

R10 de Janeiro Scaport and capital It stands on the W side of the Bay of Rio de Janeiro, backed by mountains At the entrance to the bay is the famous Sugar Loaf rock, and the harbour is one of the finest natural harbours in the world The city has some fine streets, nunerous parks and gardens, a great thorough fare the Avenida Rio Branco, and a marine bovlevard, constructed on reclaimed land The buildings, apart from the government buildings and the National Library, are not very notable The city has extensive manufactures, including textiles, clothing, furniture cigars and cigarettes chocolate, etc, and its exports include coffee, sugar, fine woods gold diamonds, etc It is the centre of a federal district administered by a prefect representing the people Pop (1930) 1,468,621

R10 de Oro Spanish possession, on the NW coast of Africa S of Morocco In soil and climate it belongs to the Sahara Desert. The population consists for the most part of nomad Arabs and Berbers, and the area is about 70,000 sq m It is under the control of the Captain General of the Canary Islands

Rio Grande River of N America It rises in the Rocky Mountains near Colorado, flows across New Mexico, forms the boundary line between the United States and Mexico and falls into the Gulf of Mexico It is 1800 m. long

R10t Word meaning any disorder caused by a number of people, not fewer than three according to English law They must be gathered for an unlawful purpose, or one calculated to terrorise ordinary citizens

By the common law of England any citizen may be called upon to help to suppress a riot. By the Riot Act of 1714, if 12 or more persons,

having gathered together, refuse to go away after a magistrate has read a proclamation ordering them to do so, they can be dispersed by soldiers A law passed in 1886 makes the police responsible for damages done in a riot, thus the cost of such damage falls upon the county or borough concerned

Rio Tinto Town of Spain In the S W from Seville, and stands near the source of the The town is celebrated for its river Tinto copper mines, among the oldest and richest in the world They were worked by the Romans and are now managed by an English company

Ripley Market town and urban district of Derbyshire, about 13 m N W of Nottingham and 134 from London by the

LMS Rly Here are collieries and textile mills Pop (1931) 13,415

Ripley Village of Surrey, 5 m from Woking and a stopping place on Ripley Village of Yorkshire (WR), on the LNE Rly Ripley Castle dates from the 16th century, but has been modernised

Ripon (city and market town of Yorkshiro (WR.), on the Ure, 24 m from Leeds and 214 from London, by the LNE Rly The cathedral, restored in the 19th century, is notable for its west front, crypt and chapter house Ripon became the seat of a bishopric in 1836 Its chief official was called the wakeman, and the wakeman's house still stands It was famed for its cloth in the Middle stands It was famed for its cloth in the Middle Ages To-day it is an agricultural centre and has baths and a pump room for its waters which have healing properties Races are held here Pop (1931) 8576

Ripon Marquis of English statesman George Frederick Samuel Robinson, a son of the Earl of Ripon, was born Oct. 24, a son of the Earl of Ripon, was born Oct. 24, 1827 In 1880 he was appointed viceroy of India, the first Roman Catholic to hold the post He held various ministerial posts as a Liberal, including Secretary for War (1863), for India (1866), Lord President of the Council (1868), First Lord of the Admiralty (1886), Colonial Secretary (1892), and Lord Privy Seal (1905-1908) He was also a prominent free mason until his conversion to Catholicism in 1871 Created Marquess of Ripon in 1871, he died July 9, 1909

Risaldar Title of native officer in the

troop of cavalry

RISCA Urban district of Monmouthshire, Condon by the GW Rly, and situated on the Ebbw A colliery centre, it has manu-factures of tinplate and chemicals Pop (1931) 16,605

Rishton Urban district of Lancashire, 3 m N E of Blackburn and 211 from London by the L M.S Rly In a colliery district, it has cotton and paper mills Pop (1931) 6631

Ritchie Baron English Political States in Dundee, Nov 19, 1828, and educated at the City of London School, Charles Baron English politician Thomson Ritchie had a long political career, beginning in 1874 as Conservative member for Tower Hamlets He held many ministerial appointments—at the Admiralty, the Local Government Board, the Board of Trade, the Home Office—and was responsible for the creation of the County Councils, and legislation

dealing with many social problems. He was raised to the peerage in 1905, and died Jan, 9, 1906 Ritual Prescribed order in the performance of religious worship Strictly speaking ritual should be distinguished from ceremony, the former being the order, the latter the acts of worship but the distinction is

not generally maintained.

Ritual figures to a greater or less degree in all religious observances In primitive religions it often reaches a high degree of complexity In ancient religions it was of the utmost importance, since the smallest mistake in word or action would result in failure to obtain the favour desired of the god Ritual observance was important in the Jewish religion, being stressed especially by the Pharisees The ritual of primitive Christianity was simple, but it became more complex as the theology the organisation of the Church developed

There is a ritual for every service of the Christian Church, eg, the ritual of the Mass the ritual of the baptismal service. The ritual of the Catholic Church is more elaborate than that of the Protestant churches, within which there are also degrees of ritual observance

River Stream of water flowing in a natural channel to the sea, a lake or other channel to the sea, a lake or other river The water percolates slowly through the soil and may be supplemented in wet weather by the actual run off from the land, sometimes causing floods The river bed tends to become wider by erosion of the banks leading to alterations in the course, and deeper, by scouring of the channel River water carries much material in suspension which accentuates erosion. The material is deposited when the current ceases as in floods deposited when the current ceases, as in floods whereby the fertility of the land is increased, or when the river enters a lake or the sea, resulting in the well known delta formation

Rivera Primo de Spanish dictator He was born on Jan. 8, 1870 Entering the army from the Madrid Military Academy, he saw active service in Morocco and the Philippines, and attained the rank of lieutenant general He organised the military revolution of 1923 and was appointed by the king president of the military directorate On the dissolution of the directorate in 1925 he become promiser. He died in Paris on March 16 became premier He died in Paris on March 16, 1930, two months after the king had compelled him to resign

River Hog Ungulate mammal (Pota-mochoerus) native to W Africa, where it ranges in herds among swamps forest regions. Its natural food is roots and herbage, but the herds raid plantations and cause great damage to crops. The bristles are red

Riverina District of Australia. It is situated in New South Wales between the Murray and Darling rivers Owing to its fine grazing-grounds, it is famous as a sheep-rearing area.

River Plate Estuary of S America, formed by the two rivers Parana and Uraguay The Plate attracts much shipping, which engages in the export of grain and animal products from the ports on its shores, the chief of which is Buenos Aires

Riveting Process by which rivets are driven into metal plates, performed by hand, machines or hydraulic formed by hand, machines or my appliances. The iron rivets are heated first in appliances. The iron rivets hearth and after being forced into the holes in the plates are is obtained from the taxation of motor vehicles finished off by forming conical heads by and amounts to something like £30,000 000 hammering, or rounded heads by use of a a year Since Mr Hore Belisha became Minister hollow punch or hydraulic tools, or counter sunk heads where the surface must be plain

RIVIERA

Riviera Name given to a strip of land in France and Italy on the Ligurian Sea, a branch of the Mediterranean It extends for about 140 m and is noted for its wonderful climate, its beautiful scenery and its rich vegetation In the French Riviera are such popular places as Cannes, Nice, Monto Carlo, Mentone and Antibes In the Italian are Rapallo, Bordighera and other places

Rivière du Loup River of Quebec It rises in the N of the province and falls into Lake St Poter the St. Lawrence Fraserville is sometimes called Rivière du Loup

Rizz10 David Secretary to Mary, Queen 1533, he first entered Mary's service as a musician, afterwards becoming her valet and in 1564 her private secretary After his marriage to the queen, Lord Darnley became suspicious of Rizzio's dealings with his wife On March 9, 1566, helped by other nobles, he dragged the Italian from her presence at Holyrood Castle and stabbed him to death.

Roach Freshwater fish Of a deep and silvery colour and from 10 to 15 in long, it is common in N Europe and of gregarious habits

Road Highway for traffic The great road makers were the Romans, who made roads of great durability, some of which may be seen to day They were driven in straight lines across the country and consisted of several layers of different kinds of earth

For a long time after the fall of the Roman Empire most of the roads were in a very bad condition, being mere tracks for horses, but a condition, being mere tracks for horses, but a new era began in the 18th century Good roads on the Roman model were made in France England, Italy and elsewhere, and these made possible the period of travel by coach which issted until the building of railway lines. The great English road builder of this time was J L Macadam (qv) In the 19th century the existing roads were maintained in a fair state of repair by the highway authorities, but no great attention was paid to them until the advent of the motor car

In the 20th century many new roads have been constructed and some improvements introduced are important one being the use of surface materials which do not raise dust The main roads are of hard stone with a covering of granite chippings, tar products and slag thoroughly rolled in concrete are also used and in the United States there are many miles of concrete road of concrete road. In city streets asphalt or wood blocks are laid on a foundation of con Rubber has also been tried, not without success as a road surface. In Great Britain there are 178,500 m of road. Of these 26,400 have been classed as class I and 15,900 as class II. The rest are inferior roads. They cost over £60,000,000 a year in improvement and maintenance In the United States there

are over 3 000,000 m of road In 1929 an important measure affecting the roads of Great Britain became law It made

of Transport in 1934 he has taken strong measures to reduce road accidents and meet the needs of modern traffic. The Road Traffic Act 1934, imposed a speed limit of 30 m p h. in 'built up areas' and a Five year Plan of new road construction promises vast improve-ment There is a Road Improvement Association at 180 Clapham Road, London S W 9

Road Board Former department of the British Government It was established in 1909 and consisted of five members Its duties were to provide new roads and improve the existing ones In 1919 its duties were taken over by the Ministry of Transport which has a road department Sec TRANSPORT, MINISTRY OF

Roaring Forties Area of the southbetween 40° and 50° S The name was given by sailors in the days of sailing ships because in this part of the world strong westerly gales usually provail

Robert Name of three Lings of Scotland. as Robert Bruce (7 v) Robert II was a son of Walter the Steward and a grandson of Robert Bruce He was born March 2, 1316, and for some time was regent for his nephew David II. In 1371 he became king in succession to David and reigned until his death May 13, 1390 He is important as being the first of the Stuart kings Robert III was a son of Robert II. Born about 1340 he reigned from 1390 until his death on April 4, 1406 His successor was his son, James I

Robert Name of two dukes of Normandy. Robert I, called the Devil, succeeded his brother, Richard as duke in 1028 Hodded in 1033 and was succeeded by his son, William the Conqueror

Robert II, the cldest son of William, was born about 1055 In 1087 he succeeded him as Dorn about 1055 In 1087 he succeeded him as Duke of Normandy, but not as King of Eng land In 1096 he obtained money by handing over Normandy to his brother William II, and went to Palestine on crusade On his return he quarrelled with Henry and a battle was fought between them at Tenchebral. Robert was taken prisoner and was still a captive when he died at Cardiff in Feb. 1135

Roberts Earl English soldler Born at Campore, Sept 30 1832, Frederick Sleigh Roberts entered the Indian army in 1851 and served throughout the Mutiny, winning the VC in 1858 He then saw service in Abyssinia and Aighanistan and was made a KOB in 1879

was made a K C B in 1879

In 1880, Roberts, now a general, made his famous march through Afghanistan to the relief of Kandahar 1881 saw him appointed Commander in Chief in Madras and made a baronet From 1885 to 1893 he was Commander in Chief in India and became Lord Roberts of Kandahar and Waterford in 1892

He was then promoted Field Marshel He was then promoted Field Marshal

He was sent to South Africa to retrieve the situation after the early defeats of the Boer War In 1901 he was created Earl, and became Commander in Chief of the British Army He retired in 1904, but during the Great War visited the troops in Franco, and died November 14, 1914

the county councils the highway authorities, and they receive grants for making and im roving roads from the road fund This fund Feb 3, 1816, the son of an officer in the army,

he was educated in Edinburgh and abroad, and articled to a solicitor at Bury St. Edmunds, but later he graduated at Oxford and was ordained in the Church of England in 1840 He was a curate at Winchester and Cheltenham before 1847, when he was made incumbent of Trinity Chapel, Brighton During his six years Trinity Chapel, Brighton During his six years here, Robertson won his place as one of the greatest preachers of the 19th century His Life and Letters was edited by S A Brooke He died Aug 15, 1853

Robertson Sir William Robert British soldier Born at Welbourn, Lincolnshire, Sept 14, 1860, he enlisted as a private in 1877, and served in the ranks until 1888, when he won a commission in the Dragoon Guards He was the first officer risen from the ranks to pass through the Staff College, 1897-8 He accompanied Lord Roberts in South Africa, and was at the War Office from 1901 07 From 1910-13 he was at the Staff College and the War Office

In 1915 Robertson was chief of the general staff to Sir John French He was recalled to the War Office, and made immediate improvements in the office, and in the disposal of forces in the different theatres of war After the war he received a baroneter, succeeded French as Commander-in Chief of Great Britain, and commanded the British troops on the Rhine He was made field marshal in 1920

Robertson Thomas William Factor and dramatist English Born Robertson actor and dramatist Born at Newark-on-Trent, Jan 9, 1829, he came to London in 1848, where, after a long and varied experience of every department of stagecraft, he produced his first successful play, David Garrick, in 1864 His fame was definitely established by Ours (1866) Other successful plays followed, including Caste (1867), School (1869), Home (1869) and Dreams (1869) Nearly all his works were performed by the Bancrofts at the Prince of Wales's Theatre He died Feb 3, 1871

Robeson Paul Negro actor and vocal 1898, at Princetown, NJ, the son of a Presbyterian minister Having graduated with honours at Rutgers College, and later, in law, at Columbia University, he started his career on the stage and concert platform as a singer of negro spirituals He came to London in 1928 and played the title role in Emperor Jones and Othello Since then he has given many vocal prothers and other and films installated and hear med ellows installated

and Othello Since then he has given many vocal recitals and has made films, including sanders

of the Ruer (1935)

Robespierre dore de French lawyer, statesman and revolutionary leader Born at Arras, May 6, 1758, he became a deputy to the States General of 1789, and rose rapidly to power After defeating his rivals, Hébert and Danton by established the Committee of Danton, be established the Committee of Public safety As leader of this committee he was responsible for the Reign of Terror in Paris in 1793 Among the thousands guillotined were his former rivals With the support of the Paris commune he inaugurated the cult of the Supreme Being He achieved dictatorial power, but was overthrown by his opponents, and was cuillotined when dying from a gun wound on July 28, 1794

Robey Sept 20, 1869, he was cated at London and Dresden He ma cated at London and Dresden He made his first appearance on a music-hall stage at the Oxford in June, 1891 and since then has played in London, the provinces, and the colonies, in

variety, revue, and pantomime During the war he served with the Motor Transport, and organised performances for war charities for which he was created a C B E in 1919 In 1932 he won a success in Helen, and he has also acted in a film version of Don Quizote and in a musical play, The Jolly Roger He is a clever artist and has exhibited at the Royal Academy His autobiography appeared in 1933

Robin British bird It is bold in approaching houses and a cheerful songster, especially in winter It is very prolific, often nesting two or three times in the year, with five to seven eggs in each brood. The familiar real breast is not so brightly coloured on the females as the males

Robin Hood English legendary hero He is represented in a series of old English ballads as a chivalrous outlaw living a care-free life with his com-panions, Little John and Friar Tuck, in the Sherwood Forest, helping the poor with his plunder from the rich It is very doubtful if there is any historical basis for this legend, which certainly dates from the 14th century, for the "rymes of Robin Hood" are mentioned

in Piers Plowman (1377)

Robin Hood's Bay Watering place of York shire (NR) The town stands at the N end of the bay, 6 m from Whitby, on the LNE Rly The fishing village is on the coast and the modern town a little way inland.

Robinson Lennox Irish dramatist born at Douglas, County Cork, Oct 1, 1886 His first play was The Clancy Name, produced at the Abbey Theatre, Dublin, in 1908 From 1910-14 he was manager of the Abbey Theatre, and in 1915 he was appointed organising librarian to the Carnegie Trust which position he held until 1925 He appointed organising librarian to the Carnegle Trust, which position he held until 1925 He again managed the Abbey Theatre from 1919-23, when he became its director His best-known plays are The Lost Leader (1918), The Whitheheaded Boy (1916), The Far off Hills (1931), All's Over, Then? (1932), and Church Street (1934) He has written a novel, The Young Mon from the South, and several volumes of short stories, and has edited several volumes of verse

Robinson Mary English actress known as Perdita Born in Bristol, Nov 27, 1758, she first appeared on the London stage in 1776 as Juliet Her beauty attracted much attention and as Perdita in The Winter's Tale she made a great reputation In 1779 she became mistress of the Prince of Wales and later she lived with Charles James Fox. She died in poverty on Dec 26, 1800

William Heath Robinson artist He was born May 31, 1872 His humorous drawings are a popular He has feature of many English periodicals He has also done successful work as an illustrator of books, and has designed comic scenery for stage productions and decorations for the Knicker booker Bar and Children's Room on the Empress of Britain

Robot Mechanical man The term was first used by Karel Capek in his play, RUR, 1920, where it described a piece of mechanism, extraordinary, officiant but

of mechanism, extraordinarly officient, but wholly without heart or soul Robots of varying degrees of efficiency have been invented

Rob Roy Scottish outlaw Born in 1671, his real name was Robert Mac gregor, but in 1693 he adopted Campbell as a In 1712 he gathered together a band surname

of followers and carried out raids on the estate, see 7 m from its mouth, on the S coast of of the Duke of Montrose, who, he alleged, was unfairly pressing him for debt After a long career as a free booter which included many amazing escapades he was arrested and imprisoned, but atterwards pardoned He dled at Balquhidder in Perthshire on Dec 28, Ħο

Robsart Amy English heroine A daughter of Sir John Robsart she was born about 1532. In 1550 she married Robert Dudley, who later became Earl of Leicester She was found dead at Cumnor Place, near Oxford, Sept 8, 1560, and it is believed that she was killed by Dudley but there is no definite proof. Sir Walter Scott made her the heroine of his novel Kenilworth

Roc Legendary bird The roc appears in many Eastern tales, eg the Arabian Nights It is represented as possessing algantic size and strength, sufficient in the story of

Sinbad the Sailor, to lift an elephant

Roch French saint. He was born at Montpellier about 1295 and won renown by looking after the sick while a plague was raging He died in prison Aug 16, 1327 S Roch was regarded as the patron saint of those suffering from the plague and many Italian and other artists have portrayed scenes from his life

Rochdale Borough and market town of Lancashire, on the Roch, 11 m. from Manchester and 196 m from London, by the LMS Rly It is a centre of the cotton and woollen industries, but has also engineering and asbestos works Cattle mar kets are held here Rochdale is famous as the starting place of the co-operative movement Pop (1931) 90,278

Roche in 1743, he became a soldier In 1777 he was elected to the Irish House of Commons and in 1782 he was made a baronet Owing to his wit and humour, which included some of the most celebrated "bulls' on record, he won a great reputation He remained in Parliament until 1800 and died June 5, 1807

Rochefoucauld La See LA ROCHE

Rochelle La French town on the W coast, opposite the He de Ré It possesses the distinguished Hôtel de Ville, built in the Renaissance style In 1891 the harbour at La Pallice, 3 m away, was opened for the use of larger vessels As a shipping centre, La Rochelle has important connections with the Newfoundland fishing industry. It

with the Newfoundland fishing industry It was a Huguenot centre in the 16th and 17th centuries Pop (1931) 45,043

Rochester City and market town of Kent, on the Medway, 33 m from London, by the S Rly It is famous for its cathedral and its castle The cathedral with a Norman front has many other features with a Norman front, has many other features of interest, including the crypt

The keep of the Norman castle overlooking the Medway is the most complete of its kind in England Eastgate House is now a museum with a wing added in 1924 Restoration House is associated with Charles II The city has several memories of Dickens, including the Bull Inn of the Pickwick Papers and Watts' Charity, where six poor men are fed and lodged every night, is described in Edwin Prood The manufactures poor men are led and louged the manufactures described in Edwin Drood The manufactures include cement and there is a trade along the river Pop (1931) 31,196

Rochester City of New York state, City on the river Gene

Lake Ontario It is a university town and also a manufacturing centre for clothing, boots shoes, furniture, flour milling etc. The most noteworth, structure is an aqueduct of seven arches by which the Eric Canal formerly crossed the river Pop 328 132

Rochester Earl of English title new thanks who fought for Charles Lin the

Henry Wilmot, who fought for Charles I in the Civil War and was made an earl in 1652 His son, John Wilmot, the 2nd earl was born April 10, 1647, and educated at Oxford He is because at the author of earling and plays and known as the author of satires and plays, and as one of the most licentious figures in a licentious age Some of his plays cannot be published owing to their indecencies He died July 26, 1680, and when his son, Charles Wil-mot, the 3rd carl, died on Nov 12, 1681, the title became extinct. It was then granted to Lawrence Hyde, but it became extinct again on his son's death in 1758

Rochet Ecclesiastical vestment worn by Besembling a surplice With long tight sleeves It was originally worn by bishops and abbots for religious ceremonies In the Anglican Church loose sleeves of lawn are now attached to the black chimere under

which the garment is worn

Rock Term in geology for the carth s crust, con-Term in geology for the constituent sisting of aggregates of minerals either of one kind as in pure sandstone or of several as in granite From their origin, rocks are classified as sodimentary metamorphic, and igneous Sedimentary rocks have been deposited by the action of water and may be mechanically formed as in sands and clays, organically deposited by the sedimentary rocks and coals. formed as in limestones and coals, or chemically formed as in certain limestones, gypsum and rocksalt. Metamorphic rocks have undergone alteration through pressure or heat as in slates and schists, while igneous rocks have solidified from a molten state and include granites, basalts, doleritos, etc

Rockefeller John Davison Oil mag nate and phllanthropist. Born at Richford, NY, July 8, 1839, he became, at the age of 50, the richest man in the By gradually absorbing smaller oilproducing companies, he ultimately controlled, through the Standard Oil Company, about 90 per cent. of the American refineries He has distributed some \$600,000,000 of his wealth, most of it for the establishment of

1 The Rockefeller Institute for Medical Research, ' to conduct, assist and encourage investigations in medicine, surgery and allied subjects,

The Rockefeller Foundation, "to promote the well being of mankind throughout the world

The General Education Board

The Laura Spelman Rockefeller Memorial His son, John D Rockefeller, Jr, born Jan 29, 1874, has collaborated with his father in all his interests In 1932 he made a public declaration against the failure of prohibition in the U.S.A. He is also largely responsible for the very costly new Rockefeller Center in the heart of New York City When the site of the former Botanic Garden became available he say its advantages as a retail business centre with headquarters for foreign interests and a complete radio city

Rocket (Hesperis) Genus of plants of the order Crucyferae, including annual and perennial varieties. The single

flowered white or mauve rocket can be grown from seed sown in March or April The double perennial variety is more successfully increased Another name is Dame's Violet hy cuttings

Rocket Type of firework used in pyroand life saving It consists of a cardboard rylinder closed at one end and fastened to a stick. The cylinder contains a gunpowder charge and fuse at the lower end, and a smaller charge with colours and stars in its propelled into the air where finally the head charge explodes, setting free the stars.

An engine in which a series of rockets are

An engine in which a series of rockets are exploded in succession has been devised recently for propelling a car, boat or aeroplane and although some success has been obtained many initial difficulties have vet to be over-

The Rocket is the name of the first locomotive, invented by George Stephenson, which ran on the Manchester and Liverpool Railway in 1830 It can now be seen in the Science Vuseum at S Kensington

Rock Ferry Watering place of Cherbert Science, adjoining Birkenhead It is connected by a ferry with Liverpool

Rockhampton Town of Queensland, 35 m up the Fitzroy river It has excellent modern buildings, wide streets planted with trees It is the port for the important pastoral and mining neighbourhood and is connected by rail with the Northern and Contral Districts and with Brisbane Pop 30,000

Rockingham Village of Northamptonshire, 8 m from Kettering and famous for the ruins of its castle Rockingham Forest once covered a large district near the village, but only a little of it remains

Rockingham Marquess of English title In 1714 Thomas Watson, Baron Rockingham was made an early but the title became expline, in 1746 when he

but the title became extinct in 1746 when he died His barony passed to Thomas Watson-Wentworth, a descendant of the great Earl of Strafford He inherited the Northamptonshire estates of the Watsons and the Yorkshire estates of the Wentworths and in 1746 was

made a marquess
Charles Watson-Wentworth, his son, was
born May 13, 1730, and succeeded to the title in 1750 He soon became prominent as a leader of the Whigs, and he was Prime Minister in 1765-66 In 1782 he was again Prime Minister, but three months later he died July 1, 1782 His titles then became extinct

Rockingham Ware was made at Swinton, near Sheffield, in the 18th century It is chocolate in colour and includes vases on which landscapes were painted

Rocky Mountains Amorican mountain range, or system of ranges It is the watershed of the American continent reaching from the Yukon river in Alaska to New Mexico in the S, a distance of 2200 m In Colorado there are more than 40 peaks over 14,000 ft high, the highest being Mt. Elbert From this district northward the Rocky Mountains decrease in altitude as they contract in breadth In the United States the northern group of mountains is divided from the southern by a broad is divided from the southern by a broad depression in Central Wyoming, through which runs the Union Pacific railroad

Rococo Architectural term for a peculiar style of ornamentation prevailing in France during the reigns of Louis XIV and Louis XV It was characterised by an excess of ornament in imitation of rocks and shell work associated with an irregular arrangement of doors and windows and an excessive use of curves

Rod Measure of length and area, also called a pole or perch In long measure it is 5½ yards and 40 rods make a furlong A square rod, called a rood, is 40½ square yards In brickwork a cubic rod consists of 272 square feet of a standard thickness of 1½ bricks, or 306 cubic feet It contains about 4500 bricks

Rodent (Lat rodere, to gnaw) Member of an order of gnawing mammals called rodentia The beaver, rat, squirrel,

mouse and rabbit are rodents

Rodeo Spanish word used for the act of gathering together cattle for the purpose of branding them It is done by the cowbovs on the ranches of S America and needs a good deal of skill The word has come to be used for an exhibition at which cowbove show their skill in pursuing and catching the animals by means of ropes Such exhibitions are held in both N and S America and have been seen in London

been seen in London

Rodin at Paris in 1840, from 1864 to 1870
he worked with Carrier Belleuse, and then
spent six years in Brussels, where he worked
on the decoration of the Bourse His first
exhibition in the Salon was the "Bronze Age"
of 1877, now in the Luxembourg This was
followed by several busts and the beginning of
his twenty years' work on the "Portal of
Hell" His famous "Burgesses of Calais" was
exhibited in 1889, and the "Kiss" in 1898
His best known work in England is "Le
Penseur," which was purchased in 1904 for the
British nation He died Nov 17, 1917

Rodney Baron British admiral Born at Walton-on-Thames, Feb 13, 1719, and appointed admiral in 1778, George 1719, and appointed admiral in 1778, George Brydges Rodnev stands next to Nelson and Blake among the greatest of English seamen One of his most brilliant victories was at Cape St Vincent in 1780, when he defeated the Spanish fleet, allowing only 4 out of 11 ships to escape In 1782 he drove the French fleet from the Atlantic by his crushing victory over Do Grasse He died May 24, 1792

Roe-Deer Small deer (Capreolus) widely distributed in Europe, including Britain About 2 ft high at the shoulders, it has a reddish coat (brown in winter) and a white rump The antlers are short, nearly vertical, with two or three times See Deer

Roehampton District of Surrey To the SW of Pottoy, it was once a park around a residence built by the 2nd Earl of Portland Here is Queen's hospital for providing maimed soldiers with artificial limbs

Rogation Days Three fast days in the Roman Catholic and Anglican churches They are the Monday, Tuesday and Wednesday before Ascension Day, the preceding Sunday being Ascension Sunday They are days on which special intercessions ore made

Rogers Samuel English poet. Born at Stoke-Newington on July 30 1763, he entered his father's bank and became

its head in 1793 In 1781 he contributed essays to the Gentleman's Magazine and wrote a comic opera the following year In 1792 appeared his chief poetical worl The Pleasures of Memory In 1803 he retired and lived a life of gentle luxury in St James's Place, touring abroad, giving celebrated breakfasts, and cellecting art He was also very generous in a quiet way, despite his bitter wit, for which he is most often remembered He died Dec 15, 1855

Rokeby Village of Yorkshire (NR), at the junction of the Greta and the Toes Here the family of Rokeby had a castle in the Middle Ages The village was the scene of Scott s poem Rokeby

Roland Frankish hero A soldier in Charlemagne's army, he was killed at Roncesvalles in 778, when the Franks returning from a campaign in Spain were suddenly attacked in the pass Legend made him a great here, one of the paladins He

appears in Italian poetry as Orlando
The Song of Roland was written between
1066 and 1099 It is the oldest and best of the chansons de geste and deals with the conquest of Spain by Charlemagne

Roland de la Platière, Manon Philipon Madame Wife of Jean Marie Roland de la Platière. She was born in Paris March 18, 1754, and was a woman of great to literature and the arts, she held a famous salon, frequented mostly by Girondins, the political influence of which was considerable. The machinations of the Montagnards sent her to the guillotine, Nov 8, 1793 Gazing at the statue of liberty, she exclaimed, "O Liberty, what orimes are committed in thy name!" Her Mémoires are widely read

Rolland Romain French writer Born at Clamecy, Nievre, Jan 29 1866, he became a professor at the Sorbonno, where he introduced the study of music and history He has written many critical and historical works, including Millars (1902) Beethoven (1906) and Jean Christophe (1904-1912), the biography of a German musician In 1924 he wrote Mahatma Gandhi in defence of the Indian leader and since then he has written LAme Enchantée (1927), Goethe et Bechoven (1931), etc. Some of his works have been translated into English, including The Death of a World, in 1933

Roller Genus of birds, found in Europe and Asia and remarkable for their brilliant plumage The blue roller corncias garrula, with plumage brown and blue, visits Great Britain The male bird has the curious habit during the breeding season of rolling over when in flight, hence the name.

Rollecton Village of Staffordshire, on

Rolleston Village of Staffordsnire, on the Dove 4 m from Burton on-Trent, on the LMS Rly The hall, which stands in a large park, was long the seat of the

Mosley family

Rolling Mill Name given to a depart ment of a steel works where ingots of metal are reduced to a con venient size and rolled into bars or sheets The preliminary reduction in size of heavy ingots is done in a cogging mill where the metal is passed first between angular grooved rollers and then between flat-grooved rollers For making plates or sheets plain cylindrical rollers are used and the machines are furnished with a reversing gear

Rollright Name of two villages in Oxfordshire, Great and Little Rollright, 3 m from Chipping Norton The Rollright Stones, near Little Rollright, are important productions of calling the Rollright, are important productions. portant remains of early man, and number about 60 in a circle Apart from these is the Kings Stone, 8 ft high, and a dolmen of five stones called the whispering knights

Charles Stewart. English engineer A son of Lord Llan and airman gattock, he was born in London, Aug 28, 1877, and was educated at Eton and Trinity College, Cambridge He studied engineering, both on the theoretical and the practical sides, and won a reputation by racing in motor cars He founded the works which became the Rolls-Royce Co He next devoted his time to aviation and made flights which at that time were remarkable He was killed at Bourne mouth during a flight, July 12 1910

## Catholic Church Roman

Numerically the largest body in Christendom According to its own definition it is not a claims (a) 'One' in doctrine, sacraments and government. (b) "Holy" with a sanctity of life and character arising especially out of the sacramental system (c) Catholic because its members are found in every part of the world (d) "Apostolic" through an unbroken succes slon going back to the Apostle Peter Among the distinctive doctrines of the Roman Church are the authority of ecclesiastical tradition, the seven sacraments, transubstantiation, the sacrificial aspect of the Mass, purgatory, the infallibility of the Pope and the immaculate conception of the Virgin Mary The principal act of worship is the celebration of the Mass, act of worship is the celebration of the Mass, said or sung in Latin, which, except in certain Eastern districts, is the official language of the Roman Church The supreme council of the Church is the College of (70) Cardinals, who act as advisers to the Pope and at his death elect a successor In 1935 the total Roman Catholic population of England and Wales was estimated at 2 321 117, Scotland, 608 000, iroland (census 1926), 3 171,697

Romanes George John British biologist Born in Canada, May 20, 1848, and educated at Cambridge, he published various works describing his research and sup porting the Darwinian theory of evolution His works include Scientific Evidence of Organic Evolution (1881) and Mental Evolution in Man (1888) He also lectured extensively He was elected F R.S in 1879 and in 1890 settled in Oxford where he founded the annual Romanes lectureship He died May 23, 1894 His work, Danoin and after Darwin was published partly in his lifetime and partly posthumously

Romanesque Architecture

Style of architecture prevailing in Europe from the 9th to the middle of the 12th century and representing a development of the Roman tradition The Roman basilica became the type for the church and from this developed the complex cruciform building. The use of the round arch and vaulting the slenderness of the columns the basket form of capitals arched cornices and an increase in size number and tracery of the windows are among the characteristics of this style

Romani Town of Egypt 20 m E of the Sucz Canal Here on Aug 3 1916, the Turks attacked a British force of Australian and New Zealand troops defending

the canal The Turks wen an initial success, but their advantages were soon lost and on the 8th they retreated with heavy losses

Romania Term used by historians for the Latin kingdom that was lounded at Constantinople in 1204 It was set up by Baldwin, Count of Flanders, and other rusaders, who took Constantinople and made Baldwin its king The kingdom had a troubled areer and in 1261 came to an end when the Byzantine emperor, Michael Palaeologus, retook Constantinople

Romanoff Family name of the Tsars of Russia It means "son of Russia," a Russian noble of the 16th century His descendant, Michael, became Tsar in 1613, but the male line died out in 1730 The later Romanoffs are descended from Anna daughter of Peter the Great, and her husband, Duke of Holstein Gottorp They ruled until the abdication of the Tsar Nicholas II in 1917 Since his murder the Romanoffs have been ropresented by several grand dukes, uncles or cousins of the last Tsar See Nicholas II.

Romans Epistle to the First of the Pauline epistles in the New Testament Canon It was probably written at Cornth at the close of Paul's third missionary journey to the Christians at Rome, whom he hoped to visit later It is the most systematic and theological of all the apostle's writings, setting forth his doctrine of the revelation of God's righteousness for man's salvation It also contains much ethical teaching

Romanticism Name used for a free and imaginative style in literature and art. It tends to idealise the experiences and facts of nature and life, and is thus the opposite of realism. The Romantic movement developed late in the 18th century and with it the names of Scott Burns and others of that period are associated. In the 20th century there has been a movement from romanticism to realism, both in literature and art.

Rome Capital city of the kingdom of Italy, the headquarters of the Roman Church, and formerly the capital of the Roman Empire It stands on both banks of the Tiber, 17 m. from its mouth, and is an important raily ay centre In it is the Vatican city, an independent state under the sovereignty of the Pope The seven hills are the Capiteline and the Palatine, the centres of ancient and imperial Rome, the Quirinal, the royal and official quarter, the Esquiline and the Viminal, which are industrial districts, and the Aventine and Coelian, which are

partiv open country
One of the world's most wonderful cities, Rome is full of objects of interest. Chief among these are the Forum, where in recent years excavations have discovered remains of many temples and other buildings, the forum of Trajan, the cathedral of St Peter, and the Vatican with its artistic and other treasures and the Sistine chapel Of the many churches that of S John Lateran may be mentioned; near it is the Lateran palace Other buildings are the runed Colosseum, the castle of S Angelo and the Pantheon, there are a number of palaces where the great Roman families lived Modern buildings include those erected since 1871 for government purposes The walls and some of the gates of the old medieval city still stand. Other features are the Catacombs (q v), the triumphal arches and the fountains

The Corse is the chief street Rome has a university and for it new buildings, forming a university city, were begun in 1932

The foundation of Rome is usually dated 753

The foundation of Rome is usually dated 151 a C. The emperor Augustus and his successors added building to building and made it the most magnificent city in the world. These buildings were chiefly temples and palaces, the latter on the Palatine hill, including the Golden House built by Nero, and the residence erected by Domitian. Other emperors were responsible for baths, aqueducts and other features of the city's life. These buildings began to decay after the fall of the empire, but a new era opened with the popes of the Renalssance, especially Sixtus V. To them we owe S. Peter's and most of the older buildings of the modern city. After 1871 a period of expansion becan. It has three broadcasting stations, of which the most important operates at 441 M., 50 kW. Pop. (1931) 999,964. See VATICAN.

Notice the most important operates at 441 m. So kw Pop (1931) 999,964 See VATICAN

Rome Empire of the ancient world It grew up around the city of Rome which remained its capital for the thousand years of its existence Traditionally the city was founded in 753 B c and the first inhabitants were people of a Latin race A few years later they united themselves with the Sabines and a series of wars made them famed in the region in which they lived Ostia, at the mouth of the Tiber, was built, and the authority of the state was extended in other directions In 529 Tarquin, the last of the seven kings, was extiled, and the city became a republic

exiled, and the city became a republic

Kings having been femoved, the chief
officials were the consuls who served for a year.
Under them many conquests were made, with
the result that in some 200 years after Tarquin's expulsion the whole of Italy, with some
slight exceptions, was ruled by Rome, which
was soon strong enough to take full advantage
of the decline of Greek civilisation In 264 B C.
the first of Rome's wars with Carthage began.
These lasted for over a contury and in the end
Carthage was not only beaten but destroyed

Carthage was not only beaten but destroyed
During this struggle, Rome, now a strong
naval power, made her first acquisition of
territory outside the mainland Sicily and then
Corsica and Sardinia were acquired and a little
lator Greece was invaded The Macedonian
Lingdom was destroyed and the Roman armies
were also victorious in Asia Minor Spain and
then Gaul were brought within the Roman
sphere of influence and the Roman possessions
in Africa were extended Meanwhile the
constitution of the city was being slowly
altered so as to meet the new conditions The
conquest of Gaul was largely the work of
Julius Caesar, in whose time the realm was
torn by civil wer, not however for the first time
In 46 B C Caesar made himself dictator, but
in 44 he was murdered. His heir was his
nephew, Octavian, who as Augustus, became
the first of the Roman emperors, a position he
reached after crushing Antony and his other
rivals, his crowning victory being at Actium
in 31 B C

Soon after the death of Augustus the Romans conquered England and invaded Scotland, but this was almost the last of their conquests. The age of expansion was over. The Empire centred around the Meditarranean and included the south and north-west of Europe Asia Minor and a fringe of Africa. It was divided into provinces, and under Augustus and his immediate successors was governed with wis dom and moderation. There were many wars with the barbarians who lived beyond its frontiers, but in the empire itself peace and

ROMFORD security prevailed, at least during the Augustan

age, one also of great literary activity Augustus was followed in II B C by Tiberius and the succeeding emperors included Callgula, Noro and Domitian Vespasian a usurper was a botter ruler, but the best of all were Trajan Hadrian and the Antonines, and the period during which they governed the empire is regarded by Gibbon as the most fortunate in the world's history But with the death of Marcus Aurolius the decline began Hia son Commodus, a worthless rulor was assassinated by the soldiers who nominated emperors in quick succession, while the barbarians became more and more menacing. The decline was arrested by the efforts of Claudian, Aurelian and above all Diocletian but the old system of government had been destroyed and the new one, with the realm under two, three or four caesars, was unequal to its tremendous task In AD 323 Constanting the Great became em peror and soon made himself sole ruler, and in 330 he moved his capital from Rome to Byzan After his term there was one ruler in the cast and another in the west, and most of them were fully occupied in resisting the barbarians who were bursting into the empire on all sides Italy was overrun and Rome itself was sacked by Alaric In 455 the last emperor of the west, Romulus Augustus, resigned his barren honour and the Roman empire ceased to exist, the mediaeval and Holy Roman Empires arising from its ashes See EMPIRE

Romford Urban district and market town of Essex, on the Rom 16 m from London, by the L N E and L M.S Rlys The industries include brewerles and engineering works and important cattle mar kets are held here An arterial road connects Pop (1931) 35,918 it with Wanstead

Romilly Sir Samuel Ho Was ho English lawyer ROM111y He was born in London on March 1, 1757, and entered Gray's Inn, specialising in chancery practice He was appointed Solicitor General and knighted in 1806, and sat in Parliament until 1818 Despite heavy opposition, he persevered in introducing bills to mitigate the severity of the criminal laws He took part in the anti-slavery agitation, and opposed the suspension of the Habeas Corpus Act. He committed suicide on Nov 2. 1818

Romney New Borough of Kent. 75 m from London, on the S Rly It was one of the Cinque Ports and was governed by jurats, but in the course of time the sea recoded and the harbour was left useless About 2 m to the W is the village of Old Romney Pop (1931) 1786

Rohlind the town is the district called

Bohind the town is the district called Romney Marsh, covering about 200 sq m, and noted as a grazing ground for sheep The title of Earl of Homney has been borne

since 1801 by the Kentish family of Marsham George English painter Romney

Romney George English painter He was been at Dalton in Furness Dec 15, 1734, and after a period as a cabinet maker, studied painting, became a portrait painter and came to London in 1762 For 35 years he devoted himself to his art, living mainly in London, and was yery successful His best known portraits are those of Lady Hamilton He died Nov 16, 1802

Romsey Hampshire, on the Test 10 m from Southampton and 80 m from London, by the S Rly The magnificent Norman church was once the church of a religious house

for women There is a trade in agricultural produce and some manufactures. Near the for women town is Broadlands once the residence of Lord

Palmerston Pop (1931) 4863
Romulus Founder of Rome and its first king Legend says that he was the son of Mars and Rhea, the daughter of a king and a vestal virgin. In infancy Romulus and his twin brother, Romus, were thrown into the Tiber by their uncle, but the trough in which they were placed went aground The children were suckled by a wolf and brought up by a shepherd While Romulus and brought up by a shepherd. While Romulus and Remus were building walls around the city they founded a quarrel arose and Remus was killed. Romulus became king of Rome and united the Romans and the Sabines. Taken to heaven in a charlot he was deified and worshipped by the Romans as Quirinus.

Ronald Born June 7, 1873, he studied music at the Royal College of Music, and in 1894 he conducted opera at Covent Garden. The same year he accompanied. Melha on an

same year he accompanied Melba on nn American tour He has been principal of the Guildhall School of Music since 1910 and conductor of the New Symphony Orchestrasince 1908 He is the author of some 300 songs and a great deal of music for the orchestra lu 1931 he published a volume of reminiscences

Ronaldshay Two islands of the Ork-noys, called North and South, 3 m and 8 m long respectively South Ronaldshay is the more fertile of the two, with some interesting remains, and 2000 inhabitants

North Ronaldshay has only 400
The title of Earl of Ronaldshay is borne by the eldest son of the Marquess of Zetland Lawrence John Dundas, who succeeded to the marquisate in 1929 was prominent in public life when Earl of Ronaldshay He travelled much and wrote on his travels, was MP for Hornsey 1907 16, and Governor of Bengal, 1917 22 He wrote the Life of Lord Curzon of Kedleston

Roncesvalles Village of Spain, in the Payrences, 21 m from Pampeluna The pass through the mountains here is regarded as the place where the army of Charlemagne was defeated by the Basques in 778, the paladin Roland being killed

Rondeau Form of poem It consists of close rhymes and a refrain and was popular in France in the 17th century when it contained 13 lines These were divided into three unequal strophes The 2 or 3 first words of the first line served as the burden and recurred after the 8th and 13th lines are English examples in the works of Swin burne

Suburb of Capetown Rondebosch South Africa It lies 5 m to the south of the city and comprises Groote Schuur (q v) There is a town hall in Groote Schuur (qv) There is a town hall in Rondesbosch which is a favourite place of residence for workers in Capetown

Ronsard Pierre de French poet. was born at the Chateau de la Poisonniere in Vendôme, Sept 11 1524 spending his youth as page and courtier, he became deaf and turned to study and poetry He formed a group with du Bellay and other poets which aimed at reviving Fronch verse and adopted the name of La Plinade This group of writers was responsible for the increase of classical influence in French poetry He died at Tours, Dec 27, 1585

Rontgen Wilhelm Konrad von German physicist He was born in

Prussia, March 27, 1845, and after studying at Zurich, he was professor at Strassburg, Glessen, Wurzburg and Munich His original discoveries in science were numerous but his most famous work was the discovery of the X-rays (1895), called now the Rontgen rays Following on research by Hertz, Röntgen first showed that these rays would pass through the body and print a shadow picture of the bones on a sensitive photographic plate He died He died Feb 10, 1923

Rood Measure of land It is 40 perches radiuste of initial to the forecast of a quarter of an acre and therefore consists of 1210 sq yards. It is sometimes known as a square pole Rood. Term applied to a cross and especially to the large crucifix in churches

representing the scene of the Passion with the figures of angels or S John and the Virgin on either side It was placed usually upon the chancel, and was probably coloured The rood was common in English churches up to the time of the Referention. the time of the Reformation

Rook Gregarious bird of the crow family (Corcus frugilegus) In Gt Britain it remains through the year, in more northern elimes it is a migrant Its colonies are usually in high elms The plumage is black with a

In high elms The plumage is black with a bare patch at the base of the bill, said to be caused by digging for the insects and grists which mainly form its food

Rooke Sir George English sailor He was born near Canterbury in 1650, son of Sir William Rooke Entering the navy, by 1689 he had risen to the rank of Rear-Admiral In 1692 he was knighted for his services at Cape La Hogue He commanded the successful Cadiz expedition of 1702, and with Sir Cloudeslev Shovel he captured Gibraltur in 1704 He died Jan 24, 1709

Roosevelt Franklin Delano American president Born in New York, Jan 30, 1882, and educated at Harvard

York, Jan 30, 1882, and educated at Harvard and Columbia, he was admitted to the New York Bar in 1907 and was a member of the New York Senate, 1910-13 From 1913 20 he was Assistant-Secretary of the navy and was made Governor of New York, 1929 31 In 1932 he was elected as President of the United States, defeating Mr Hoover A member, like Woodrow Wilson, of the Democratic party, he threw himself at once into the task of economic reconstruction, and handled with skill and vigour the various international problems in which his country was involved Though insisting on the payment of war debts he invariably showed willingness to discuss terms with the debtor countries He is the author of Whither Bound? (1926), The Happy Warrior (1928), Loolung Forward (1933) and On Our Way (1931) ROOSEVELT Theodore 26th President in New York, Oct 27, 1858, his father being of Dutch descent, and his mother, Scotch-Irish-Huguenot. He was educated at Harvard Iniversity Entering public life early, he was

Huguenot. He was educated at Harvard University Entering public life early, he was President of the New York Police Board, 1895-President of the New York Police Board, 1895-97, where he made strenuous efforts to stem corruption At the outbreak of the Spanish War he raised the famous "Rough Riders" com-manding the regiment himself In 1898 he be-came Governor of New York State, and in 1900 Vice-President of the U.S.A., automatically becoming President on the assassination of McKinley, Sept 14, 1901 During his term of office he had many conflicts with "Big Business," directing all his efforts to prevent the gradual strangulation of the free develop-

ment of industry in the interests of the people The result was that in 1904 he was re-elected for a second term by an overwhelming majority In 1905 no was largely instrumental in bringing about peace between Japan and Russia, and was awarded the Nobel Peace Prize In 1912 he split the Republican vote between himself and Tatt, thus causing the election of Woodrow Wilson, Democrat His great interest, apart from politics, was big game hunting He made expeditions to Brazil and Africa, and wrote several books on the subject, also on historical and general matters He died Jan 6, 1919

Root Elihu American lawyer and politi-tian He was born at Clinton, New York, Feb 15, 1845 After serving with the Republican Party as Secretary for War (1899-1904) and Secretary of State (1905-09) he devoted himself to the cause of international peace and was awarded the Nobel Peace Prize in 1912 He headed the US Diplomatic Mission to Russia in 1917 and represented his country at the Washington Disarmament Conference in 1921 His writings include The Citizen's Part in Government, 1907, and Men and Policies, 1924

Rorke's Drift Historic place on Buffalo River, Zululand On Jan 22, 1879, shortly after the disaster to a British force under Lord Chelmsford at Isandhlwana, Rorke's Drift was successfully held against a Zulu onslaught by a handful of the 24th Regiment under Lieutenants Chard and Bromhead

Rorqual Animal belonging to one of the whales of the whalebone whales They include the largest living animal, the blue whale, but are less valuable than right whales as their whalebone is coarse and short and there is less blubber They live in northern waters

Rosa Carl August Nicolas German Mar 22, 1842 The opera company which bears his name was formed in 1875 with the object of encouraging English composers and producing their works His first wife was the

famous operatio soprano Madame Parepa He died in Paris April 30, 1889 Rosa Salvator Italian artist The son of an architect and law surveyor, he was born at Renella, near Naples, July 21 He studied under Riberia and afterwards under Falcone, the battle-painter His picture, "Tityus tortured by the Vulture," brought him fame in 1638 His reputation rests mainly upon his landscapes, which are characterised by a wild and rugged freedom. He died in Rome, March 15, 1673

Rosario Second largest city in Argentina On the River Parana 190 m from Bucnos Aires, it is an important railway centre and possesses an excellent harbour, and the largest sugar refinery in Argentina is found here. The town is laid out with mathematical regularity. It was founded in 1730, but was still no more than a small village in 1850 Pop (1931) 485,354

Rosary String of beads used by Romau Catholics for counting their prayers The devotions themselves are sometimes called rosaries The festival of the Rosary, kept on the first Sunday in Oct commemorates the victory of the Christians over the Turks at Lepanto in 1571

Roscoe Sir Henry Enfle'd British Colombia Born in London, Ian

7, 1833, he studied chemistry at University

College, London, and later at Heidelberg tive with his pen. His books include studies of (under Bunsen). For thirty years he held the Pitt, Peel, Napoleon and Chatham and a short Chair of Chemistry at Manchester University. and was M.P for South Manchester from 1885 95 He served as Vice-Chancellor of London University from 1896 1902, became an F.R.S in 1863, and a knight in 1884 He died at Leatherhead, Dec. 18, 1915

Roscommon Market town of Co State also the county town Founded about 700, it is an agricultural centre, 85 m from Dublin, on the GS Rlys There are ruins of a 13th century castle Pop (1931) 1830

ROSCOMMON in the Province of Connaught and wholly inland. It covers 990 sq m and is bounded by the Shannon and the Suck There are hills in the north and east and the country has many lakes, Rec and Allen among them Cattle, sheep and pigs are reared, especially on the plain of Boyle Oats and potatoes are grown and a little coal is mined. Roscommon is the country town other places are Elbhin. Boyle and Castleragh other places are Elphin, Boyle and Castlereagh Pop (1926) 83,556

Roscrea Market town of Co Tipperary, Frish Free State It is on the Little Brosna River, 77 m from Dublin, on the GS Rivs The town has a round tower and was the seat of a bishop It is a centre for the sale of cattle and agricultural produce Pop (1926) 2770

Rose Flowering tree or shrub of the order Rosaccae From the wild rose, Rosa canina have been developed numerous strains, added to each year, with widely different characteristics. The main groups are ramblers, climbing roses, bush and standards, in each of which are a profusion of varieties As a result of hybridization and careful selection types have been evolved which are free flowering and yield blooms for 5 or 6 months of the year Autumn is the best time to plant

Rosebery man Archibald Philip Primrose was born in London, May 7, 1817 the son of Archibald, Lord Dalmenv, his paternal grandfather being the 4th Earl of Rosebery He went to Eton and Christ Church Oxford, and in 1868 succeeded his grandfather in the earlidon

in the earldom

In 1878 he married the heiress, Hannah Rothschild and in 1881 he joined the Liberal Ministry as Under Secretary to the Home Office In 1983 he was made first Commissioner of Works and in 1885 Lord Privy Seal He followed Gladstone when the Liberal Party was divided on home rule and in 1886 was Foreign Secretary He was again Foreign Secretary, 1892 94 and in 1894 succeeded Gladstone as prime minister The Radicals disliked his idea of a con-

tinuous foreign policy and the Nonconformists his association with the turi In 1895 he resigned and he never took office again using resigned and he never wook offee again using his influence in the House of Lords till his retirement from politics in 1905 In 1910 he denounced the budget introduced by Lloyd George He died at Epsom May 31 1929 In 1911 he was made Earl of Midlothian Three times his horses won the Derby—1894 1895 and 1905

Rosebery's fame rests upon his literary gifts, rather than his political career. A graceful speaker, he coined phrases that have become historic while he was equally attrac

Pitt, Peel, Napoleon and Chatham and a short life of his friend, Lord Randolph Churchill Lord Rosebory had four children. His elder

son, Lord Dalmeny a cricketer and hunting man, succeeded him as 6th earl The younger son Neil Primrose, was killed in Palestine, Nov 18, 1917

Rose Mallow (Hibiscus) Genus of tropical and subtropical plants and shrubs of the order Maliaceae plants and surfus of the order Mattaceae. The beautiful flowers are striking and richly coloured Largely cultivated under glass, some varieties can be grown in the open air under sultable conditions. There are many species, the two shrubs H syracus and H rosaus, togother with H rosaus, being the true rose mallows. The name is also given to a specially large and beautiful species of hollyhock

Rosemary (Rosmarinus officinalis)
Hardy evergreen peren
nial shrub Two or three feet in height, it
has fragrant green leaves from which an aromatic oil is extracted. The small violet flowers are borne in early summer

Roseneath Watering place of Dum-bartonshire It is on the Gareloch, near Helensburgh and is a calling place for steamers Roseneath Castle, a modern building near the site of an older one is a seat of the Duke of Argvll

Rose of Jericho (Anastatica hiero chuntica) Cruciferous plant of S Europe with small, white flowers After flowering the plant withers and

Howers After flowering the plant withers and the stems curve inward forming a dry, shrivelled ball Being light, these balls are carried by the wind in all directions

ROSES Wars of the Civil war that took place in England between 1455 and 1485 It arose when Henry VI was king Hoecame insone, and Richard, Duke of York, like Henry a descendant of Edward III, claimed the throne Henry's supporters, the Lancastriaus took a red rose as their symbol. Lancastrians took a red rose as their symbol,

and the Yorkists a white one

There were a number of battles, beginning with St. Albans in 1455 with periods of truce between them At the Battle of Northampton, in 1460 Henry was made prisoner and in 1461 York was killed at the Battle of Walsfield The Lancastrians were defeated at Towton The Lancastrians were detected and their cause was hopeless until the Earl of Carwick changed sides in 1470 Henry was Warwick changed sides in 1470 Henry was then released from prison and restored to the throne However at Barnet and Tewkesbury in 1471, the Lancastrian armies were crushed and the war was virtually over although it is usually regarded as ending with the Battle of Bosworth, where Henry VII defeated his Bosworth, where Henry enemies in 1485

Rosetta Stone Inscribed slab of block baselt found at Rosetta in the western delta of the Nile by a French artillery officer in 1799 It came into the possession of the British Government later and is now in the British Museum It bears fourteen lines of hieroglyphic writing, thirty-two of demotic, and fifty four of Greek, and records a decree made by Ptolemy V Epiphanes

Records a decree made by Ptolemy V Epiphanes about 196 BC It furnished a key to the decipherment of Egyptian writing ROSEWATEr Solution of a small quantity of otto of roses in water prepared usually by distillation. Considerable quantities are made in and exported from the South of France and other rose-crowing countries

growing countries

Rose Window Large, circular win-and especially Gothic cathedrals. It is divided by elaborate tracery into a central compart-ment with others radiating from it, the divisions being filled with stained glass

Rosicrucians Supposed secret society. book called Fama Fraternatis des loblichen Ordnungs des Rosenkreuzes, which appeared at Cassel in 1614, as having been formed about 150 years earlier to (among other things) relieve sickness and poverty with gold manufactured by use of the philosopher's stone Though the literature on the subject is extensive it is doubtful whether such a society existed The word is used as the title of an order in Freemasonry

Roslin Village of Midlothian It is 6 m south of Edinburgh, on the LNE Rly It is famous for its chapel and ruined castle. The chapel is the choir of an unfinished chapel. unfinished church and is remarkable for the beauty of its carvings, especially its prentice pillar It dates from 1446 The castle, of which of the St. Clair family At one time Roslin was a burgh, to day it is a mining centre From it the family of St. Clair Erskine takes the title of earl

ROSS Urban district and market town of Herfordshire It is an agricultural centre, on the Wve, 12 m from Hereford, on the GW Rlv Pop (1931) 4738

ROSS Sir John Arctic explorer Born in Wigtownshire, June 24, 1777, he entered the navv at the age of nine After good service in the wars against France, he began Arctic exploration in 1818, when he attempted to find a North-West Passage, and explored Baffin's Bay He was knighted in 1833, and in 1850 attempted without success to find Sir John Franklin. He died on Ang. to find Sir John Franklin He died on Aug 30, 1856

ROSS Sir Ronald British physician and British physician and Born at Almora, India, May 13, 1857, he studied medicine in London, and in 1881 entered the Indian Medical Service Until 1899 he made researches into the disease-carrying insects, and later became Professor of Tropical Medicine at Liverpool University After being at King s College London, in 1913, he became Director in Chief of the Ross Institute and Hospital for Tropical Diseases During the Great War and after he was the chief consultant on malaria after he was the chief consultant on malaria He received a Nobel prize for medicine in 1902, and knighted in 1911 Died Sept., 1932 ROSSAII Village of Lancashire It is on the coast, three m from Fleetwood. Here is a school for boys opened in 1844, and one of the great public schools

Rosse Earl of Irish title borne by the family of Parsons It dates from 1806 and the family seat is Birr Castle, Parsontown Its most famous holder was William Parsons, the 3rd earl He was born, June 17, 1800, and sat in Parliament from 1823 to 1834 He won a great reputation as an astronomer At Birr Castle he built a great telescope and did much valuable work. He was president of the Royal Society, 1849 54 and died Oct 31, 1867

Rossetti Christina Georgina. English poetess She was born in London, Dec. 5, 1830, and except for very short absences, her life was spent in the metropolis Her first published book of poems Ross Sea Antarctic Sea It was dis metropolis Her first published book of poems

was Goblin Market (1862) This was followed by

was Goblin Market (1862) This was followed by a steady output of verse characterised by deep religious feeling and delicate grace Miss Rossetti was the sister of Dante Gabriel Rossetti She died Dec 29, 1894

ROSSETTI Dante Gabriel English poet and painter He was born in London, May 12, 1828, the son of Gabriele Rosetti, an Italian poet and critic His poem The Blessed Damozed was written before he was twenty, but his carly fame was that of a painter In art he was influenced by Ford Madox Brown and became one of the founders painter In art he was influenced by Ford Madox Brown and became one of the founders of the Pre-Raphaelite Brotherhood (qv) in 1848 A collection of poems, after being buried with his wife (Elizabeth Siddall, d. 1862) was disinterred and published in 1870 A great passion for beauty is the principle which unifies his art and poetry He died at Birchington, April 9, 1885

Rossetti William Michael. English Ilterary critic Brother of Dante Gabriel Rossetti, he was born in London. Sept. 15, 1829, and was a civil servant until his retirement in 1894. He translated Dante's Inferno (1865) and wrote a memoir of his brother (1895) He also edited the Germ, the magazine of the Pre Raphaelite Brotherhood He died Feb 5 1919

ROSSi Grovanni Battista de Italian ROSSi painter and sculptor He was born at Florence in 1494 At the invitation of Francis I he undertook the decoration of Fontainebleau Castle His work consists of frescoes, representing mythological scenes and incidents from the life of S Francis One of his pictures, "Lamentation for Christ," hangs in the Louvre He committed suicide in 1541

Rossini Gioacchino Antonio Italian composer He was born at Pesaro, Feb 29, 1792 The son of a strolling player, he studied music at Bologna, and began his musical career as a singer and later as accompanist. His most famous compositions are Il Barbiere di Seviglia (1816), Guillaume Tell (1829) and Stabat Mater (1832-39) Though he composed no work of importance

Though he composed no work of importance after the age of thirty-seven, his place among the greatest writers of opera is unquestioned. He died Nov 13 1868

Rosslare Seaport and holday resort of Wexford, Irish Free State It is 6 m from Wexford and 97 from Dublin, on the GS Rlys Its harbour was enlarged for the GW Rly steamer service between Fishguard and Ireland, started in 1906

Rosslyn Earl of Title borne by the carl was Alexander Wedderburn Born Feb earl was Alexander Wedderburn Born Feb
13, 1733, the son of a Scottish lawver, he
became a barrister in London, and an MP
In 1771 he was made Solicitor-General, and
in 1778 Attornev-General In 1780 he became
Chief Justice of the Common Pleas, and from
1793 to 1800 he was Lord Chancellor In
1780 he was created Baron Loughborough,
and in 1801 Larl of Rossivn He died Jan
2, 1805
Leaving no sons, Rossivn's title passed to
a nephew, James St Clair-Erskine, who,
since 1782, had sat in the House of Commons.
He was Lord Privy Seal, 1829-30, and Lord
President of the Council, 1834-35 He died
in 1837 James Francis St Clair-Erskine
(b 1869), became the 5th earl in 1890 His
eldest son is called Lord Loughborough

Dingwall is the county town other places are Stornoway, Cromarty, Tain, Strathpeffer and Invergodon The soil is unfortile and largely devoted to deer forests Of the many mountains, some are nearly 4000 ft. high The Alness, Oykell and Conon are the chief rivers Marce and Fannich are the chief of many lochs The area is 3089 sq m One member is returned to Parliament Ross and Cromarty were separate counties until 1889, when they were united, as Cromarty consisted of small pieces of land scattered throughout Ross. Pop (1931) 62,802

Rostand Edmond French dramatist.

April 1, 1868, and educated at the Lycée there He is the author of numerous plays, including Les Romanesques the brilliant Cyrano de Bergerac I'Aylon and Chantecler, a farmyard fantasy He died Dec 2, 1918

Rostock Town in the German republic of Mecklenburg It is 8 m from the coast, on the River Warnow, which is navigable up to the town for sea going ships of 19 ft. draught It is one of the most important commercial centres on the Baltic Pop 72,200

Rostrum Platform from which a speaker addresses an audience In ancient Rome the rostra (plural) was the platform between the forum and comitium used by public speakers. It was so-called from the rostra or beaks of captured galleys which decorated it

which decorated it

ROSyth Ecaport of Scotland It is on

Rosyth the N side of the Firth of Forth

The dockyards and other works were begun
in 1909 and greatly enlarged during the World
War, when Rosyth became one of the chief
naval stations It had wet and dry docks

capable of taking the largest warships

Lang naval stations it had wet and dry docks capable of taking the largest warships Land was recovered from the sea and protected by a sea wall. The great basin was nearly a mile long, and near it was a submarine basin. In 1925 the dockyard was closed.

Rotary Club organisation for busi-club was established in 1905 by Paul Harris, for busi-The first a Chicago lawyer Each member represented a different trade or profession and its motto was service not self. Other clubs were estab was service not self Other clubs were established in the United States, and the idea spread to Britain The members meet at stated times for luncheon, and afterwards discuss some social or other topic The clubs are federated into an international escentiation which heldes are attracted. Other clubs were estab association which holds an annual convention The international headquarters are in Chicago

Rotation Form of motion in a circular path of a line plane or solid In a line having one end fixed, the other or free end may describe a circle round it in the same plane or parallel planes Similarly, a plane may rotate around any point of in it and a rotating solid revolves round a row of fixed points forming a straight line and termed the axis of rotation. The rate of a plane may rotate around any point or line rotation may be measured by the number of ievolutions in a given time, or may be expressed in terms of angular velocity

Capt J C Ross, R N, in 1839 In 1841, after penetrating a wall of pack ice, he found the sea to be ice free

ROSS-Shire County of Scotland, in It is manor house and the estate were the Ross-shire full Ross and Cromarty In the N of the country, it stretches from the Let of the W coast It includes part of Lewis and some other islands of the Hebrides Dingwall is the county town other places are Stormoway. Cromarty. Tain, Strathneffer receives assistance from public funds receives assistance from public funds

Rothbury Market town and urban district of Northumberland by tourists, it is situated on the Coquet, 11 m from Alnwick, on the L N E Rly Pop (1931) 1255

Rothenburg Town of Bavarla It 36 m from Nuremberg One of the most perfect medieval towns existing, it is still and its surrounded by its walls and gates, narrow streets remain unchanged The town's capture during the Thirty Years' War is annually celebrated by a play Pop 9000 The

Rothenstein Sir Wartist William He was born Jan 29 1872, in Bradford, and studied at the Slade School of Art He became famous through his lithographed portraits of dis tinguished authors, and during the Great War was made one of the official painters to the British armies In 1920 he was appointed Principal of the Royal College of Art, South Kensington He published his Reminiscences in 1932

Rother River of Sussex It rises S of Rotherfield and enters the sca at Rye Its length is 30 m, and for part of its course it forms the boundary between Kent and Sussex

Rotherfield Village of Sussex It is Wells and 39 from London, by the S Rly

Rotherham County borough and shire (WR.) It is 6 m NE of Sheffield and 163 from London, by the LM.S Rly The rivers Don and Rother meet near the town, which has glass and pottery manufactures and metal and chemical works Pop (1931), 69,689

Rotherhithe District of London Part of the borough of Ber mondsey A tunnel connects it with Stepney across the river, and in the district are the Surrey Commercial Docks

Surrey Commercial Docks

Rothermere paper proprietor Harold Sidney Harmsworth was born at Hampstead April 26, 1868, being a younger brother
of Viscount Northeliffe He left the civil
service to join his brother in the publishing
business, and the two soon made of this a
gigantic concern In 1896 the two started The
Daily Mail side by side with that of the
Amalgamated Press, which was confined to
weekly and monthly publications In 1910 he
was made a baronet in 1914 a baron and
in 1919 a viscount In 1916 he was made Director General of the army clothing department, and in 1917 he was Minister for Air
In 1922 on his brother a death, he returned

to The Daily Mail as chief proprietor, and became a leading figure in the newspaper world

Lord Rothermere is one of the most generous private benefactors of his time He has en dowed professorships at both the older universities. He bought the site of Bethlem Hospital for a public pleasure ground, and

Rothes Burgh of Moray It is on the Spey, 10 m from Elgin, on the L N E Rly Pop (1931) 1260

The title of Earl of Rothes has been borne by the family of Leslie since 1457 or earlier In 1680-81, its holder, who was Lord Chancellor of Scotland, was a duke The title has several times been held by a woman The earl lives at Leslie House, Fife, and his eldest son is called Lord Leglie called Lord Leslie

Rothesay of Burgh and watering place town of Buteshire On Rothesay Bay, and 40 m from Glasgow, the town has a good harbour and some fishing and shipping, and is a popular pleasure resort and yachting centro Pop (1931) 9346

The Prince of Wales boro the title of Duke of Rothesay The 1st duke was David, son of King Robert, III. and it was borne by other

King Robert III, and it was borne by other heirs to the Scottish throne

Rothley Village of Leicestershire It from Leicester, on the LNE Rlv Here is Rothley Temple, the house in which Lord Macaulay was born In the Middle Ages the knights templars had a preceptory here

founder was Meyer Amschel, who was born in Frankfurt in 1743, and who laid the foundations of their great fortune by gaining the confidence of the Landgrave of Hesse, by commissions on moneys sent by the British Government to Wellington in Spain during the Peninsular War, by raising large loans for Denmark, 1804-12, and by skilful management of the Landgrave's fortune He died Sept 13, 1812, leaving five sons who arready Rothschild Name of a world-famous The 13, 1812, leaving five sons who established themselves respectively in Frankfurt, Vienna, London, Naples and Paris The grandson of London, Naples and Parls The grandson of the third (1840 1915), was the first Jew to be made a peer (1885) and the present holder of the title, Lionel Walter (b Feb 8, 1868), succeeded his father in 1915

Rothwell It is 4 m from Leeds and is a centre of the coal-mining and cloth-manufacturing industries Pop (1931) 15,639

Rothwell Urban district of North-amptonshire It is 4 m from Kettering, on the LMS Rly The town has a Jesus hospital dating from 1590 The chief industry is the manufacture of boots

The chief industry is the manufacture of the chief industry is the manufacture of and shoes Pop (1931) 4516

Rotorua Town and lake in New Zealand The lake is 7 m long by 5 m broad, with the volcanic island of Mokala in the centre The town, on the 8 W shore of the lake, is famous as a beauty spot and health resort, and also has a scientific interest as the centre of the remarkable interest as the centre of the remarkable of the curative baths volcanic hot spring district. It is surrounded by luxuriant forests, with the curative boths at Whaharewarewa close at hand

Rotten Row Thoroughfare in Hyde Park Londo, It extends from Hyde Park corner to Coalbrookdale Gate, and is reserved for horse riding See Hyde Park.

Rotterdam City and scaport of Holland It is on the New Mass, 20 m from the sea, is accessible to the largest ships and has 16 m of quays Long a famous city, Rotterdam was the birthplace of Erasmus (qv) whose statue is in the great

has made the acquisition of the site of the Foundling Hospital possible contains a famous organ with nearly 5000 Rothes Spey, 10 m from Elgin, on the Elgin, on the an old and a new town hall Apart from ship building, Rotterdam manufactures tobacco cigars, margarine, ropo, leathor, etc., but is more important as a commercial centre, having an extensive overseas trade. The city has an extensive overseas trade Pop (1932) 587 316 many canals

Circular building usually with Rotunda a dome The most famous example is the Pantheon at Rome built by Hadrian in the 2nd century and now used as a church

Roubaix Town of France It is 6 m from Lille, and is served by railway and canal Before the war the town railway and canal Before the war the town shared with Turcoing pre-eminence as one of the busiest industrial centres in France especially in the production of woollen, cotton and other textiles It was occupied by the Germans, 1914-18 After the war it was adopted by Bradford and was rebuilt Pop Germans, 1914-18 After the war adopted by Bradford and was rebuilt (1931) 117,190

Rouble Russian coin Before 1917 it was coined in silver and to some extent in gold It was worth 2s 11d, and was divided into 100 kopecks Paper roubles were issued in immense quantities during the war period and soon became valueless Under the Soviet rule the rouble has been restored to its former value

Rouen City and river port of France Rouen It is on the Seine, 87 m from Paris and 54 from the coast at Havre As the capital of the old duchy of Normandy, the old part of the city is full of interest Chief among its buildings is the Gothic cather and the capital of the cather works. It dates mainly from the 13th century dral and is notable for its west front, its towers, and is notable for its west front, its towers, its monuments and its stained glass. The Church of St. Ouen is regarded as a wonderful work of art. Those of St. Maclou and St. Vincent are famous for their stained glass. The palais de justice is a fine Gothic building and there is a gateway containing a large clock, the celebrated grande horloge There are suburbs across the river which is crossed by three bridges, one a transporter bridge

Rouen is a prosperous river port Other industries are the manufacture of cotton chemicals, machinery, soap, boots and other articles, the refining of oil and railway shops Pop (1931) 122,957

Rouge-et-Noir Gambling card game Trente et Quarante (q v)

Roughrider Trainer horses Trainer οf unbroken its plural Ιn form the name is also given to irregular mounted troops, such as T Roosevelt raised for service in Cuba during the war between the United States and Spain

Roulers Town of Belgium It is 19 m from Bruges, and is an important railway junction It is a centre of textile manufactures, and at one time was famous for its cloth From 1914 to 1918 it was in German occupation Pop (1931) 27,669

Roulette French game of chance It is a feature of the gambling rooms of Monte Carlo The roulette table, rooms of Monte Carlo The rollette take, covered with a green cloth, is made up of two similar halves with a space in the middle for the wheel, the spaces at the side being marked "passe," "pair," "manque" "impair, and with black and red diamonds The wheel is divided into 37 compartments, alternately black and red, the 37th being zero. The croupler throws the ball as the wheel is spin ping, and the number upon which it comes to rest wins

Roundel Name used for a tune a dance The poem was sung to the tune, the first strain being repeated at intervals and so giving the idea of a circle, or small round In the dance the dancers stood in a cirle and joined hands In heraldry roundels are circular charges, and are given different names according to their tinctures, gold or yellow being called bezant and silver or white a plate

Rounders Outdoor game The implements are a stick and a ball. The members of one side strike the ball in turn, when it is tossed to them, each as he does so running to a base, of which there are several in the field if possible he runs round to the striking post, passing all the bases If a member of the fielding side hits him with the ball before he reaches a base, he is out. He is also out if the ball is caught in the field or if he falls three times in succession to hit the ball

In 1889 an association was founded, and rules for the game were drawn up. These provide for sides of 10 players each, and a stick or bat not more than 35 inches in length. There are five bases 15 or 20 yards from each other, and the field is shaped like a pentagon. A hard ball is used and to be out the striker must be touched with it instead of having it hursed at him. Baseball certainly, and cricket probably, owe something to rounders. See BASEBALL CRICKET.

Roundhead Epithet of derision applied by the king's men to a supporter of the Parliament during its struggle with Charles I It was an allusion to the puritan habit of wearing the hair cropped close to the head

Round Robin signed by several per sons It was given a round shape so that those addressed could not tell who first wrote his signature, and so possibly penalise him as a ringleader The name is also used popularly for certain small fishes

For certain small fishes

Round Table
Arthur
And his

knights used for their feasts
round so that there should be no jealousles
about precedence According to legends an
order of the round table was founded by Uther,
the father of Arthur
It had 150 members
There are references to it in Malory a Morte
d'Arthur and Tennyson's Idylls of the King

Round Tower Tall, slender, circular and somewhat tapering edifice surmounted by a conical cap Round towers are found mostly scattered over Ireland, but three occur in Scotland and they are supposed to have been used as watch towers or refuges The older towers probably date from the 9th century but many were built in the 12th and 13th centuries The door of the tower was 6 to 20 ft above ground, and communicated by ladders with the several storeys

Roup Disease of poultry It is some thing like catarrh and may arise from keeping the birds in restricted sur roundings It is marked by discharges from nose and mouth and is very contagious. The birds attacked should therefore be isolated and treated by a veterinary surgeon

In Scotland a roup is the usual name for an auction.

ROUSSEAU writer and philosopher Hee was born at Geneva, Jan 28, 1712 After a more or less vagabond career, he found his vay to Paris, and achieved fame in 1750 with his Discours sur les Sectences et les Arts La Nouvelle Helonse, with its genuine sentiment and love of nature, was the forerunner of Romantic literature in France Emile did much to promote modern theories of education and the upbringing of children and La Confession de Foi d'un Vicaire Savoyard helped to purify and simplify the religion of his contemporaries. In the political sphere, Du Contrat Social was to a large extent responsible for the ideas and policy of the revolutionary leaders in 1789 He died July 2 1778

ROUSSEAU Pierre Etienne Theodore

Rousseau Pierre Etienne Theodore French artist. Born in Paris, April 15, 1812 he studied art there Soon he attracted attention by his landscapes, although it was not until 1849 that they were admitted to the Salon In 1848 he settled at Barbizon, and was a leading member of the group there until his death Dec. 22, 1867 Rousseau was much influenced by the Dutch painters, and in his turn influenced those who followed him.

Rowfant Railway station of Sussex It is 4 m from E Grinstead on the S Rly Near is a Tudor house, famous for the collection of books made here by Frederick Locker Lampson (1821 95),

Rowing Art of propelling a boat by means of oars. It forms part of every seamans calling, whether in the fighting or the merchant service, and is also a sport As a sport it has been brought to a wonderful state of perfection by improvements in the build of the boats and the style of oars manship The most famous rowing race is that held annually between the universities of Oxford and Cambridge It has been held since 1829, each crew numbering eight. In other races the crews number four or two, an even number belng essential as each man pulls a single oar

In sculling a man uses two sculls, and, therefore, sculling races can be held between two competitors A rowing crew usually carries a cox for steering the boat, but races between coxswainless fours are held. A great event of the rowing year in England is the regatta, founded in 1839, at Henley-on Thames to which crews come from many parts of the world and of which there is an offshoot in Australia Practically all rowing races are strictly confined to amateurs. To control the sport there is an amateur rowing association, and the chief rowing club is the Leander, with headquarters at Henley

Rowlandson Thomas English artist. he studied art here and in Parls. His landscapes and portraits made him popular in his day, but his more enduring fame rests upon his caricatures. These dealt with current political events and occupied him from 1784 until his death. They were remarkably powerful, both in conception and in design, and expressed the idea of the populace. Rowlandson died in London, April 22, 1827. In another vein were his drawings entitled "The Three Tours of Dr Syntax"

Rowley Regis Market town and Staffordshire It is 5 m from Birmingham

on the GW Rly The industries include the manufacture of hardware and coal-mining Pop (1931) 41,238

Roxana Wife of Alexander the Great. She was the daughter of a prince of the Bactrians The king met her when on a campaign in Asia and married her when the hardware high daught. After that event she bore him a son, Alexander, the heir to the vast empire She took him to Macedonia, but soon the pair were imprisoned, and in 311 BO were murdered by order of Cassander

Roxburgh Burgh of Scotland, now represented by a village Near Kelso on the Tweed, it is on the L N E Rly, and is sometimes called New Roxburgh The burgh stood where the Tweed and the Teviot unite, and was an important border fortress in the Middle Ages

Roxburghe Duke of Scottish title to the family of Innes-Ker In 1616 Robert Ker was made innes-Ker in 1616 Robert Ker was made Earl of Roxburghe, and in 1707 John Ker, the 5th earl, was made a duke He was a Secretary of State at that time, and this title was a reward for helping to unite the two parliaments John, the 3rd duke, is known as the curator of a famous library which was sold in 1812 He died in 1804 without sons and the dukadem He died in 1804 without sons and the dukedom was claimed by Sir James Innes, a descendant of the 1st earl His claim was admitted, and his descendants, the family of Innes-Ker, have since held the title The duke's seat is Floors Castle, near Kelso, and his eldest son is called the Marquess of Bowmont.

Roxburghshire County of Scotland It is in the S, touching the English border, and covers 666 sq m It contains peaks of the Cheviot and the Eildon Hills, and is famous for its scenery The chief river is the Teviot others are the Tweed, Liddel, Ale and Jed Jedburgh is the county town, other places are Hawick, Melrose, Kelso and St Boswells The county contains the ruined abbeys of Melrose and Jedburgh, and such famous border strongholds as Hermitage, Branxholm and Harden Rox-Hermitage, Branxholm and Harden Rox-burghshire is famous for its sheep With Selkirkshire it sends one member to Parliament Rox. With Pop (1931) 45,787

Royal Academy of Arts, see AOAD-

Royal College of Music, see Music, college It has commodious quarters in Kensington, which include a fine organ and well appointed library, and offers Associateship and Fellowship by a combined practical and theoretical examination The college, whose president is elected annually, was founded in 1864

Royal Family Term including the sovereign and all the members of his family In Great Britain, the members of the royal family are confined to the descendants of Queen Victoria, the other descendants of George III and earlier sovereigns, having, for one reason or other, passed out of the circle Some of the descendants of Victoria have also passed out of the circle Some of the descendants of Victoria have also passed out of the circle Some of the descendants of Victoria have also passed out of the circle Some of the royal family are addressed as royal highness, and family are addressed as

The industries include the hardware and coal-mining for of Alexander the Great. It, and then came Henry VII who was descended from Edward III After the death of Elizabeth, James VI of Scotland, a descended from Edward III After the death of Elizabeth After that event in Alexander, the heir to the took him to Macedonia, but took him to Macedonia, but the morisoned and in 311 Elizabeth, the Princess Margaret. The bluke of the science of these kings from this pair the line continued to Richard III, and then came Henry VII who was descended from Edward III After the death of Elizabeth, James VI of Scotland, a descendent of Henry I was a descendant of these kings from this pair the line continued to Richard III, and then came Henry VII who was descended from Edward III After the death of Elizabeth, James VI of Scotland, a descendent of Henry VII succeeded, and his granddaughter, Sophia, was the mother of direct line The line of succession is now took him to Macedonia, but it is the continued to Richard III, and then came Henry VII who was descended from Edward III After the death of Elizabeth, James VI of Scotland, a descendent of Henry VII succeeded, and his granddaughter, Sophia, was the mother of direct line The line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession is now took him to Macedonia, but the line of succession direct line The line of succession is now (1936) the Duke of York, the Princess Elizabeth, the Princess Margaret, the Duke of Gloucester, the Duke of Kent, his young son and the Princess Mary and her children

Royal Household Inclusive term denoting the attendants of the sovereign In England it tonsists of the Lord Steward's department, the Lord Chamberlain's department, and the the Lord Chamberlain's department, and the department of the Master of the Horse The Lord Steward and the Lord Chamberlain are always peers and members of the government The Lord Steward's department includes the Treasurer, Comptroller, Master of the Household, Almoner and Paymaster of the Household, and the Lord Chamberlain's consists of the Vice-Chamberlain, Master of the Ceremonies, the Gentleman Usher of the Black Rod (qv), Lords- and Grooms-in-waiting, and others, including the Dean of the Chapels Royal and other attendants, religious, medical and for the arts The Master of the Horse, who has charge of the horses and hounds of the sovereign, has under him equerries and pages-of-honour There is also a Privy Purse department, consisting of the king's personal star.

ment, consisting of the king's personal staff Other members of the royal family have their own households, that of the queen consort being under a lord chamberlain and including, among

under a lord chamberlain and including, among others, a mistress of the robes, ladies of the bedchamber and maids of-honour

Royal Society English learned stands of the society, the chief of its kind It was founded in 1845, and received a charter from Charles II in 1660 It has had its headquarters in various places, including Wadham College, Oxford, but since 1857 has been at Burlington House, London, WC The society holds meetings, gives medals and in other ways encourages scientific reand in other ways encourages scientific research. Its membership (FRS) is a coveted distinction and its president is usually one of the great scientists of the day

the great scientists of the day

The Royal Scotety of Edinburgh fulfils a like
purpose in Scotland It was founded in 1739
Its headquarters are at 22 George Street,
Edinburgh, and its members are known as
FRSE or FRS (Edin)

Royat Inland watering place of France
Puy-de-Dôme district, and stands high amid
the mountains Its waters, known to the
Romans, are arsenical, chalybeate and
alkaline alkaline

Ruabon Town of Denbighshire It is GW Rly There are some manufactures and around are coal mines Pop 3386

Ruanda District of Africa It lies between Tanganyika and Uganda, and is governed by Belgium under mandate from the League of Nations Before 1919 it was part of German E Africa Nianza and Kigali are the chief places With Urundi its area is about 15,000 sq m, and the population is about 3,000,000

Rubber Elastic substance also known from the milky latex of various tropical trees, the chief commercial kind, Para rubber, being from a species of Hevea, a euphorbineous genus Ceará rubber is derived from another genus, Manthot, while Assam rubber is chiefly the latex of Ficus clastica belonging to the Moraccae. Rubber chemically consists of a mixture of resins, hydrocarbons, water and

other substances
Formerly S America was the chief source
of rubber, but Hoves trees are cultivated
now in immense plantations in Malaya, the
E Indies, Ceylon and other countries The
trees are tapped when about five years old
by making incisions in the bark, the latex
being collected in cups
The crude rubber is
formed into sheets or crepe for export, and its
strength and elasticity are improved by vul
canisation Rubber enters in some form into
most industries and, as ebonite, or vulcanite,
has many uses in electrical, chemical and
similar trades

Rubble Small undressed blocks of stone used in masonry In rubble work for walls the stones in some cases are slightly dressed with the hammer and leid unevenly In many ancient walls the outer surfaces were of ashler or dressed stone in proper courses, with the middle space filled with rubble

Rubefacients Group of medicinal substances When applied to the skin they cause a slight tempo rary congestion or dilatation of the super ficial capillaries, producing a reddening effect. They are used as a counter-irritant in inflammation of the deeper structures. Among rubefacients in common use are mustard, turpentine, chloroform, pepper, hot fomentations and friction.

Rubens He was born at Siegen in Westphalia, June 29, 1577 His father was a citizen of Antwerp, and in that city the son settled when only ten years old His father being then dead, he lived with a family called Lalaing, and there began to study art. He worked under several great painters, and spent some years in Venice, Rome, Milan and other Italian cities In 1608 he returned to Antwerp where he lived until his death May 30, 1640 Though primarily occupied in painting he found time to go on missions for the Dutch Government to Madrid, London and elsewhere

Rubens was the greatest painter of his day, and one of the greatest of all time. He painted about 1250 pictures of which over 30 are in the National Gallery London. The works in Antwerp, notably those in the cathedral, are perhaps his masterpieces.

Rubicon Small river of Italy At one estate time it formed the boundary between Italy and Gaul In 49 BC, Caesar 1648.

It is crossed it and so gave the signal for civil the war, and to day the phrase 'crossing the Rubicon' is used as a synonym for any decisive step

Rubinstein Russian musician Born Nov 28, 1829 in Bessarabia he studied music in Moscow Paris and Berlin As a bov he attracted the attention of Chopin and Liszt In 1858 the tsar appointed him court planist, and in 1862 he founded a conservatoire of music in St. Petersburg This he conducted for some years, but he also found time for tours in England and the United States, where he became very popular He was in Russia when he died, Nov 20, 1894 Rubinstein wrote much music for the plano, as well as many operas He left some Memoirs

Rubric Order to the clergy about the conduct of services Originally rubrics were written or printed in the old service books in red, hence the name (Lat., ruber, red) In the English Book of Common Prayer the rubrics are usually printed in italics

Ruby Transparent variety of corundum Coloured red by ferric oxide when pure in colour and flawless, the ruby comes next in value to the diamond, and is of greater value when of large size and of a bright carmine shade known as "pigeon's blood" The best rubies are found in crystal-line limestone in Burma, also in gem gravels in Ceylon and Siam Many so-called rubies are garnets, spinels or tourmaline

Rudd (Leuciscus crythropthalmus) Small freshwater fish It has red fins and eyes, and is known also as the red eve Like a roach in appearance, it is common in British rivers and usually weighs about 1 lb, but is seldom used for the table

Rudyard Lake of Staffordshire It is near Leek and is 2 m long, being the largest sheet of water in the Midlands It sorves as a reservoir for the Trent and Mersey Canal The village of Rudyard is on the edge of the lake

Rue (Ruta graveolens) Perennial plant
Of shrub like growth, it has small
bluish-green leaves and clusters of yellowish
flowers The leaves are bitter and contain an
oil used for medicinal purposes Rue is also
known as herb of grace

known as herb of grace

Ruff Small bird found in Europe and
Asia At one time it was common
in the marshy districts of England It is
migratory, moving southwards to the Mediter
ranean region in the cold weather The ruff
is about 12 in long and its plumage is mottled
brown, grey and black In the breeding season
the male grows tufts of feathers on both sides
of the head and a broad ruff of feathers on the
throat. The female, called the reeve, lays its
eggs in a nest of coarse grass placed among
rushes

Ruffe (Accrina cernua) Small fresh water fish Allied to the perch, it is about 6 in in length, and has only one dorsal fin, its food consists of worms and insects. It is also known as the pope

Rufford Abbey Seat of Lord Savile Ollerton, Nottinghamshire, and occupies the site of a Cistercian abbey founded in 1148 When the monasterics were dissolved, the estate passed to the Talbots and then to the Saviles The first house was built about 1648, the present one is modern in the

Jacobean style The earlier one was the home of the Marquess of Hullfax, who passed here the days of his retirement In 1784 it came to the Earl of Scarborough, and in 1856 was bequeathed to John Savile, a natural son of the 8th Earl of Scarborough He was made Baron Savile, and the abbey remained the residence of his successors in the title until 1932, when it was closed

Rufiji River of Africa It rises in Nyasaland and flows through Tanganyika

to the sea opposite the island of Maiia Its course is mainly N E and E, and parts of it are navigable In July, 1915, the German cruiser Kongsberg was destroyed in the river

Rugby Borough and market town of Warwickshire It stands on the Avon, 82 m from London and 30 from Birmingham, and is an important junction on the L MS and L N E Rlys The chief buildings are the churches of Holy Trinity and St Andrews and the hospital of St Cross The principal industry is engineering Cattle and sheep fairs are held Rugby was made a borough in 1932 At Hillmorton, nearby, the Post Office has a radio transmitting station with a world wide range with a world wide range

Rugby School is one of the great English public schools It was founded in 1567 by Lawrence Sheriff, and until the 19th century was a small grammar school Its present site was bought in 1740, and in 1809 the existing buildings were begun In 1827 Thomas Arnold became head master, and under his direction the school took a prominent under his direction the school took a prominent place The buildings now include a chapel, observatory, museum, library and labora-tories There is accommodation for about 600 boys The school is governed by trustees and is divided into three blocks There is a war memorial, part of which consists of scholar-chine for the some of old hous who were billed war memorial, part of which consists of scholar-ships for the sons of old boys who were killed Rugby gives its name to a form of football and a form of fives, and the school has been immorfalised in Thomas Hughes' story, Tom Brown's School-days

Rugby Union Association controlling Rugby Union football as played according to Rugby rules There is an association in each of the four countries, England, Scotland, Ireland and Wales, all of which are represented on an international board responsible for the rules The English union was founded in 1871, and the others at later dates The union, which is confined to amateurs, owns the ground at Twickenham, where its hendquarters are

Rugeley Urban district of Stafford-London, on the LMS Rly The industries are agricultural, and near are coal mines Pop (1931) 5263

Pop (1931) 5263
Rugen Island of the Baltic Sea It belongs to Germany, and covers 373 sq m Divided from Pomerania by the narrow strait of Strelasund, it is a summer holiday resort. The inhabitants are chiefly engaged in fishing and rearing cattle Bergen is the capital From 1648 to 1815, when it was ceded to Prussia the island was a Swedish possession Pop 49,000
Ruhr River of Germany A tributary of the Rhine, it flows through Rhenish Prussia to fall into the larger river at Ruhrort. It is 145 m long and the last 45 m of its course are carulised It flows through a great industrial district in which are Essen and other iron and steel manu-

are Essen and other iron and steel manu-

facturing centres

In Jan 1923, as the Germans failed to pay the money agreed upon as reparations, the French occupied the Ruhr district This led to trouble, as the German inhabitants refused to work Though this difficulty was overcome, the French remained in the region until 1925 The British took no part in the occupation

Ruislip District of Middlesex It is an to the NW of London, on the Metropolitan Rly A residential area its population has greatly increased in recent

vears

Rule Controlling principle or regulation. The term is found in the rules of a game or of a society. It is also used for the regulations (rules of court) that govern the procedure in a court of law. The regulation of a monastic order is known as its rule, e.g. the rule of S. Benedict.

The rule of the road consists of regulations laid down by convention or sometimes by

laid down by convention or sometimes by law, to facilitate the movement of traffic In Great Britain the rule for vehicles is to keep to the left and to pass a vehicle in front on the right In France, Germany and other parts of Europe also in the United States, the rule is to keep to the right Podest streets should keep to the left Podestrians in crowded

At sea the rule of the road is for ships to pass port to port, port being the left-hand side A red light shows the port side and a green the starboard The jingle used by sallors is, "Green to green, or red to red perfect safety, go ahead" Steamers give way to sailing ships There is also a rule of the road for air reft. the road for aircraft

Rum Spirit distilled from diluted cane been molasses which have been frum sngar molasses which have been fermented by the action of a yeast Inferior grades are distilled from the skimmings of the pans, fresh cane juice, etc., and in France from beet molasses. It is coloured with caramel or by storing in sherry casks, and its aroma is increased by age Jamaica Demerara and Martinique are the chief centres of rum manufactur. A liqueur known as arms should be made from rum, snoar and lime rum shrub is made from rum, sugar and lime juice

Rum Island of Scotland It is one of the Hebrides, and belongs to the county It is one of the of Inverness It covers 42 sq m The soll is poor and the only inhabitants are a few crofters and fishermen The mainland is

Colletz Galatz. Braila and Constantza, aro

The capital of Rumana is Buchalest, conti-places are Chishinau Cernauti, Iasi and Galatz Galatz, Braila and Constantza, are the chief ports Agriculture is the main industry Maize, wheat and barley are grown and there are large forest areas. Much oil is produced salt is a state monopoly, and is produced sail is a state monopoly, and there are coal mines The country has a has a national bank, and uses the metric system of weights and measures There is an army raised by compulsors service and a small weights and measures

navy on the Black Sea The people belong to the Greek Church there belong a national orthodox church of Rumania under two metropolitans

Rumania is governed by a legislature of two houses One is the chamber of deputies, the members being elected by all adults The members being elected by all adults. The second chamber is the senate which consists of clected and life members, bishops and others The executive is in the hands of a council of

ministers under a premier In 1859 Moldavia and Wallachia, then part of Turkey were united under a hospoder or lord In 1861 he became Prince of Rumania and ruled as a vassal of Turkey until 1866, when Carol, a Hohenzollern prince, was chosen

as ruler In 1878 Rumania became independent of Turkey, and in 1881 Carol took the title of king Ho died in 1914 and was succeeded by his son, Ferdinand, during whose reign Ru mania entered the Great War on the side of the mania entered the Great War on the side of the Allies In 1927 Ferdhand died, and his son Carol having renounced the succession a grandson Michael, became king In 1930, however, Carol returned from his retirement and the legislature accepted him as king in place of his son Michael

Rumelia Eastern Soft the country it lies along the velley of the Maritza Philip popolis is the chief town and Burgas on the Black Sea the chief port Long part of the Turkish Empire, it was united with Bulgarla in Sept. 1885

Rumford Kennerley English singer 2 1870, he was\_educated at King's School Canterbury He studied singing in Paris and London and in 1897 first appeared in London Possessing a beautiful bass voice he was for the next 30 years one of the most popular singers in the country married Clara Butt (q v) In 1900 he

Ruminant Type of ungulate main and have the stomach divided into three portions The unmasticated food is passed into the paunch where it becomes macerated, it is then returned to the mouth for thorough mastication, and again swallowed for digestion in the second and third stomach chambers Cattle, sheep, goats and deer are ruminants

Runciman Walter English politician He was born at 8 Shields, Nov 19 1870, the son of a wealthy ship owner, Sir Walter Runciman After passing through Trinity College Cambridge he joined his father in business and between 1924 and 1929 held some of the chief positions in the shipping industry In 1899 1900 he was Liberal MP for Oldham, and from 1902 18 for Dewsbury In 1924 he was elected for Swansea West, and in 1929 and 1931 for the St Ives division In 1898 he married Miss Hilda Stevenson who was Liberal MP for St Ives 1903 20 St. Ives 1928 29

St. Ives 1928 29

In 1905 Runciman was made Parliamentary
Secretary to the Board of Trade, and in 1907
Financial Secretary to the Treasury From
1908 11 he was President of the Board of
Education from 1911 14 of the Board of
Agriculture and from 1914 16 of the Board of
Agriculture and from 1914 16 of the Board of
Agriculture and from 1914 16 of the Board of
Agriculture and from 1914 16 of the Board of
Agriculture and from 1914 16 of the Board of
Agriculture and from 1914 19 to the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1914 19 of the Board of
Agriculture and from 1

office as President of the Board of Trade in the National ministry, continuing in this office in June and Nov, 1935 He was largely respon-sible for the import duties imposed in 1932, and represented Great Britain at the Ottawa conference

Runcorn Market town, urban district and river port of Cheshire It is on the Mersey and the Manchester Ship Canal 16 m from Liverpool and 28 from Manchester, on the LMS Rlv Chemicals and soap are made, and for the shipping there are ample docks A transporter bridge across

the Mersey connects the town with Widnes
Pop (1931) 18 158

Rune Character in the old Scandinavian
alphabet This had at first 24 characters but was later reduced to 16 Having no curves they were well adapted for carving on stone and stone inscriptions in Runic on stone and stone inscriptions in numer characters are still found one or two being on crosses in Great Britain Runes were in-scribed on bone and metal and on coins Runge island in the Bay of Riga. It belongs to Estonia, and on it

about 200 people are occupied in fishing and farming For about 1000 years they and their ancestors have lived on communistic principles. there being no private property except clothing and personal belongings Each farm consists of narrow strips scattered over the island community elects its own officials to see that the island customs are safeguarded

Running Form of sport and exercise since very early times The Greeks were perhaps, the first to popularise it, when they included it among the contests at the Olympic Games To day running is

divided into the following classes

(a) The sprint, or short distance, where the start is of paramount importance

(b) Middle distances which require more endurance and running skill

(c) Long distances, which may be anything from 3 m and upwards, and where a high level of training and a sound knowledge of timing are essential

Steeplechasing relay andcross-country and team racing are all popular varieties

Runnymede Field near Egham Surof the Thames, 20 m from London Here
in 1215 King John is believed to have signed
Magna Carta, although the event may have
taken place on Charter Island in the river
Magna Carta house has been built on the supposed site The field or mead, is the property
of the National Trust

Rupee Monetary unit of India It is a silver coin worth normally is 6d in English money It is divided into 16 annas It also circulates in Ceylon, British E Africa and Mauritius

Rupert German prince and English A son of the elector palatine Frederick V and Elizabeth, daughter of James I, he was a nophow of Charles I He was born at Prague, Dec 17, 1619, and when little more than a boy became a soldier In 1642 he came to England to assist Charles, and made a reputation as a covalry leader and made a reputation as a cavalry leader, the impetus charges of his men being very successful until Cromwell organised his force

In 1648 Rupert went to sen in command of the fleet, and did good service in this capacity until defeated by Blake off Malega in 1650 He returned to England in 1660 and, a man of considerable gifts, left his mark in two spheres of activity. He had something to do with the colonisation of the great area named after him, Rupertsland and he introduced into England the mezzotint process of engraving He died Nov 29, 1682

Rupert's Land Old name for the lies around Hudson Bay, and is now known as part of the NW Territories It was long the property of the Hudson Bay Company, but was sold in 1867, and is now divided between the NW Territories and the provinces of Ontario, Manitoba and Quebec The Anglican Church in Canada calls one of its heads the Archbishon of Rupert's Land its heads the Archbishop of Rupert's Land

Rupprecht Prince Until 1918, crown prince of Bavaria Owing to his descent from Charles I, he is regarded by legitimists (qv) as the rightful king of England In the Great War he commanded an army on the western front

Term used in two senses by Rupture Term used in two senses by another name for hernia, or the protrusion of a part of the body through an abnormal opening HIRNIA

The other rapture is a breaking or a bursting,

as the rupture of a blood vessel

as the rupture of a blood vessel

Rural Dean Clerical official in the

Rural deans existed in the Christian church
in early times, but disappeared during the

Middle Ages Their duties were to assist
the bishops In the Church of England they
were revived in the 19th century Each
diocese is now divided into rural deaneries

Rural deans assist the bishops in pastoral
matters, leaving husiness affairs to the archmatters, leaving business affairs to the archdeacons

Genus of plants, mainly peren-Rush nials The botanical name is Rushes grow in temperate and cold climates and in wet and sandy soil, and are distinguished by their long, straight, smooth stems They bear small flowers in clusters, and the stems are either hollow or filled with a white pith Rushes were long used for lighting purposes To-day they are gathered chiefly for plaiting into mats and similar articles

Rushden Urban district of Northamp-tonshire It is 66 m from London and 4 from Wellingborough, on the LMS Rly The main industry is the manu-facture of boots and shoes Pop (1931)

Ruskin John English art critic and author He was born in London, Feb 8, 1819, and educated at Oxford, winning the Newdigate Prize in 1839 His autobiography, Practeria, tells the story of his early days From 1869 79 he was Slade Professor of Art in Oxford Modern Painters, begun in 1840, is an elaborate treatise on the principles of art which excited much controversy, but English ampliance ultimately provailed but Rushin's opinions ultimately provailed. In the region of political economy and social In the region of political economy and social reform he was equally a force, and there is no doubt that his ideas (set forth in Unio This Last (1862), Munera Pulvers (1872) and Fors Clavigera (1871-84), a series of letters to the working men and labourers of Great Britain) helped to mould the changing political doctrines of his time His collected works fill 39 volumes and treat not only of art and political economy, but also of Greek myths home industries, wayside flowers, and

so on Among his outstanding books are Seren Lamps of Architecture, Sesame and Lilies and The Stones of Venue He died Jan 20, 1900 Ruskin College was founded in Oxford in 1899 to provide working class students with opportunities for the study of second services. social service

Russell Famous English family It is descended from Henry Russell, who was MP for Weymouth in the 15th century A descendant, John Russell, became a courtier In 1539 he was made a baron, and about this time obtained much of the land taken from the monasteries, notably Covent Garden in London, and estates in Devon and Bedfordshire Other estates including Chenies, came to him by marriage 1550 John was made Earl of Bedford and in 1694 a later earl was made a duke This title is still held by the Russells, and branches of the family hold the titles of Earl Russell and Baron Ampthill See BEDFORD, DUKF OF

Russell Earl English statesman John Russell, a son of the Duke of Bedford, was born Aug 18, 1792, and entered Parliament at the age of 21, identifying himself with the parliamentary reform movement The first Reform Bill of 1832 was the work of "Lord John" and four other members of the Liberal Government. He served in Lord Grev's ministry in 1830, and later was Home Secretary under Melbourne

under Melbourne

In 1836, after being converted to the support of the repeal of the Corn Laws, he succeeded Peel as Prime Minister of a Whig govern-ment He was then Foreign Secretary in the coalition under Lord Aberdeen (1851) His bad management of the Crimean War made him unpopular and he resigned, returning as Foreign Sccretary under Palmerston in 1859
He was created Larl Russell in 1861, and was again Prime Minister in 1865
After his defeat in the same year, he lived in retirement at Richmond His written works include recollections and studies of the members of the Russell family He died May 28, 1878

Russell Earl English scientist Born at Monmouth, May 18, 1872, Bertrand Arthur William Russell was the younger son of Viscount Amberley and a grandson of the 1st Earl Russell He vent to Trinity College, Cambridge, where he became a Fellow and lecturer, but later he settled in London and devoted himself to social and political work He married Dora, daughter of Sir F W Black, and in 1930 succeeded his brother in the title

As a philosopher and mathematician Russell is in the first rank, though he is a destructive rather than a constructive thinker In the sphere of mathematical philosophy, he is without a rival in Great Britain He has written much on philosophy and also on social questions, his books including Principles social questions, his books including Principles of Social Reconstruction, Mysticism and Logic The Analysis of Meter, Roads to Freedom and Freedom and Organisation 1814-1914 (1935) His shorter works include The ABC of Relativity, Why I am not a Christian, Marriage and Morals, and The Conquest of Happiness Not unfairly, his ideas in all these fields may be described as revolutionary, while his fearlessness and honesty are unquestioned A member of the Labour Party, he stood for Parliament, but failed to secure election Parliament, but failed to secure election Russell Lord William English tician A younger son o

this Russell Lord William English politician A younger son of the and 1st Duke of Bedford, he was born Sept 29,

1639 and studied at Cambridge He entered the House of Commons in 1660, and later made himself conspicuous by his opposition to a proposal to exclude James II from the throne In 1683 he was arrested for his share in the Rye House Plot (q v), and on July 21, 1683 he was beheaded for treason

Russell of Killowen Baron Irlsh at Nowry, Nov 10, 1832, Charles Russell was educated for the law and became a solicitor in 1869 he became a barrister in England He practised in Liverpool before settling in London in 1886 he was elected M P for Dundalk, and in 1885 for S Hackney in 1886 he was appointed Attorney General in the Liberal Ministry and was knighted He was again Attorney General in 1892 94 and had much to do with drafting the home rule bills In 1894 he was made a Lord of Appeal and a life peer but almost immediately became Lord Chief Justice and received an hereditary peerage He clied Aug 10, 1900 leaving five sons The cldest, the 2nd baron, became a judge and later a Lord of Appeal Russell was an ardent Roman Catholic and a great patron of the turf

Roman Catholic and a great patron of the turf.
The greatest advocate of his day, Russell's great cases include his defence of Parnell before the commission and his defence of Mrs. May brick. He was concerned in the arbitration about the Bering Sea fisheries and the Venerue lan boundary and he presided at the trial of Dr. Jameson and his associates in 1896.

Russell William Clark English novelist. Born in New York Feb 24, 1844, he wrote much for the papers, but is best known by his novels The Wreck of the Groscenor and List Ye Landsmen may be mentioned itussell died Nov 8, 1911.

RUSSel1 Sir William Howard English 28 1821, in Ireland he was educated at Trinity College, Dublin He joined the staff of The Trucs and in 1854 was sent out to the Crimea There he made his reputation by his despatches, went next to India to describe the Mutiny and then to America for the Civil War He represented his paper during the Austro Prussian War of 1866 and the Franco Prussian War of 1870 71 In 1879 he was in South Airlea describing the campaign against the Julus Knighted in 1895, Russell died Feb 10

Russia country in Europe and Asia, the successor of the empire of Russia and now controlled by the Union of Socialist Soviet Republics Its area is 8 241 921 sq m It is divided into Russia proper or the Russian Socialist Federal Soviet Republic, and six other republics namely White Russia Ukraine, Transcaucasia Turkmenistam Uzbekistan and razhikistan leuropean Itussia ovtends from the Arctic Ocean to the Caucasus and from Poland to the Urals Asiatic Russia includes Siberia from the Urals to the Pacific a vast district in central Asia, stretching eastward from the Cusplan and some parts of Asia Minor The population (1931) is estimated at 161 006 200

Of this immense area Russia proper covers 7626 717 sq. m and contains 11 autonomous republics and 15 autonomous regions In I kraine is one autonomous republic, Moldavia Moscow is the capital of the union and the largest city. The next largest are Leningrad Harkoff, Baku Kiev Odes and Rostov

The republic is governed by Soviets at the the Council head of which is the all Russian Congress of that parliam Soviets which consists of representatives of the Soviet Union

provincial congresses of Soviets and of the town Soviets The executive authority is in the hands of a council of people's commissaries each member being responsible for one of the departments of state They are elected by the congress The right of voting for the Soviets is granted to all over 18 years of age except complete or these who live on uncarned incomes priests and certain others These may, how ever, vote under special conditions The church has been disestablished, but the exercise of their religion is permitted to all Education is compulsory. There is an army called the Red Army raised by universal service, a small navy and an air force

Russia is an agricultural country and most of the people work on the land The majority of the farms are under collective control, though a proportion still retain their peasant owners Manufacturing industries have been started in some places and are worked on a very large scale in accordance with the five year and other plans prepared by the rulers They are controlled by trusts including the rubber trust, silk trust and others The chief minerals produced are coal and oil Foreign trade is a monopoly of the state and all imports and exports are strictly controlled

The standard coin is called the chervonetz. It is valued at 730 to the £ sterling. The metric system of weights and measures is in force. The country has its own calendar five days make a week six weeks a month and twelve months a jear. The extra days are kept as festivals to celebrate the revolution.

The Russian empire began as a collection of principalities with Moscow as its capital. The first to take the title of tear was Ivan in 1547. Of his successors the greatest were Peter, who founded St. Petersburg which became the capital and introduced modern ideas into the country, and Catherine II. Catherine and her successors greatly extended the area of Russia first in Europe and then by acquiring Siberia and other districts of Asia. In the Napoleonic age and later the country ranked as one of the Great Powers

In spite of much unrest the empire of the tears lasted until 1917 Dissatisfaction with the sufferings caused by the Great War brought matters to a head, and in March, 1917, a socialist republic was established This was replaced later in the year by the Bolshevist or Soviet régime in which Lenin (q v) and Trotsky were the dominant figures Peace was made with Germany, and later certain parts of Russia became independent states, as Finland, Poland Estonia, Latvia and Lithuania The last tsar, Nicholas II, and his family, were murdered at Elaterinburg, July 16, 1918, a few days after the adoption of the Soviet constitution In Dec, 1922, a Union of Sociellist Soviet Republics was set up comprising four republics—Russia Urkeine White Russia and the Transcaucasian Federation—to which the Uzbek Turkoman and Tazhikistan republics were afterwards added The constitution of the Union was ratified in 1924 and since them Russia had continued under the Soviet régime When Lenin died in 1924 Stalin became leader of the Russian Communist Party and expelled his rival, Trotsky Then in 1928 the Five year Plan for industrial and social reconstruction was inaugurated and continued in 1933. In Sept. 1934, Russia entered the League of Nations and was given a permanent scat on the Council Recently it has been suggested that parliaments be introduced within the

Russo-Japanese War war caused by the threat to Japan involved

in Russia's ambition to become a naval power in the Pacific It was begun by Japan, Feb 8, 1904, with a successful attack on the Russian fleets at Chemulpo and Port Arthur On April an engagement on the Yalu River ended in a complete rout of the Russian force In August the Russian fleet at Port Arthur and the Vadivostok squadron both suffered reverses By October the Russian army under Kuronatkin had been driven back on Mukden after four days continuous fighting January witches nessed the handing over of Port Arthur to the Inpanese and in March a decisive battle between the rival armies at Mukden resulted in the capture of that town, with heavy losses on both sides

The Russian resistance was finally broken on May 27, when the remnant of her fleet under Rozhdestvensky was routed Peace was signed, Sept 5, 1905 at Portsmouth, USA, when Russia secured surprisingly favourable Russian casualties were estimated at 385,000 and Japanese at 167,000

Russo-Turkish Wars The war was due to Sultan Mahmoud II 's cruel treat-ment of insurgent Greeks, which united Britain, France and Russia against him The fleets of the three powers destroyed the Turkish navy The fleets of in the harbour of Navarino, 1827, and the victorious Russian army advanced as far as Adrianople, where the Sultan was forced to acknowledge by Treaty, 1829, the independence of the Complex. of the Greeks

Another war arose in 1853 owing to the rejection by the Sultan of the claim made by Czar Micholas I to be recognised as protector of the "Greek" Christians in Turkey The Turks won a surprising victory at Olenitas, but their fleet was destroyed at Sinope Turkey's Eastern allies were successful in the Crimea and by the Peace of Paris (1856) Russia

was temporarily crippled

Again in 1877 she declared war on the Porte. captured Plevna after a brilliant defence, and within sight of Constantinople dictated the terms of the Treaty of San Stefano (1878), which ended Turkish rule in Europe

Reddish-brown, hydrated Rust formed on iron in water or by exposure to moist air The presence of carbonic acid in water or the atmosphere will bonic acid in water or the atmosphere will promote the formation of rust, the carbonic acid possibly acting as a catalyst, or the action of rusting may be electrolytic in character Experiments show that pure iron does not rust in pure water, even when oxygen is present. When rusting has once started the process continues as the oxide is hygroscopic.

Rustenburg Town of the Transvall
Fretoria and the centre of an orange and
Tobacco-growing district
Town of the Transvall
Behind the town
Behind the town Pop 1700 (whites) are the Magallesberg Mts

Ruth Character in the Old Testament. She was a Monbitess and married a certain Mahlon, who, with his father and mother Elimelech and Naomi had come to Moab from Bethlehem The two men died wild be the state of the Moab from Bethlehem The two men died and Naomi and Ruth were left widows Asomi went back to her own country and Ruth went with her There she married a new two pairs and the same back and the same less and the same back and the same less and the s kinsman Boaz, and from the pair Jesse and David were descended.

The Book of Ruth is one of the shortest

but most moving in the Bible It dates from the time of the judges, but the author is unknown

Ruthenes lans foun Word used for the Ukrain-Poland found in Czechoslovakia and other part lly Galicia and parte of that especially Bukovina region. Before the Great War they were under Russian They numbered and Austro-Hungarian rule about 4,000,000 The district in Czecho-slorakia in which many of them live is called It has a certain amount of self-t The Ruthenes belong to a government Unlate church in connection with Rome and are under an archbishop at Lemberg

Rutherford Ernest Rutherford, Lord British physicist. Born at Nelson, New Zealand Aug 30, 1871, he studied at the University of New Zealand He became Professor of Physics at McGill University Montreal, in 1898, at Manchester, 1907, and Cambridge, 1919 His researches established the exist researches of radioactive transformations. the existence of radio-active transformations the existence of radio-active managements the nuclear nature of the atom, and the electrical structure of matter. He was awarded the Nobel Prize for Chemistry in 1908, was knighted in 1914, awarded the OM in 1925. knighted in 1914, awarded the O M is and created Baron Rutherford in 1931

Rutherglen Burgh of Lanarksung It stands on the Clyde, 2 m from Glaszow, on the LMS Rly The industries include the making of chemicals It is the oldest royal burgh in Scotland, founded in 1126 Pop (1931) 25,157

Ruthin Borough and market town of the Clwyd, 215 m from London and 8 from Denbigh on the LMS Riv The chief building results on the Las Rive The chief building is St. Poter's church, which has cloisters. The castle occupies the site of the one built by the English in the 13th century. Pop. (1931) 2912

Ruthven Baron Scottish title borne Ruthven In 1488 Sir William Ruthven was Scottish title borne family of Horemade a Lord of Parliament. William, the 4th lord, who, in 1581 was made Earl of Gowrie, was responsible for the seizure of James VI, which is called the Raid of Ruthven With some associates he took the young king to his castle at Ruthven and for a short time ruled the land in his name Soon however, James was released and in 1584 Ruthven was executed for high treason. The title then became extinct, but in 1651 it was given to Sir Thomas for high treason Ruthven, from whom the present holder is descended

Ruthwell Village of Dumfriesshire At one time a burgh, it is 5 m from Annan on the LMS Rlv It is famous for its 7th-century cross, restored in 1802, on which are carvings of the crucifixion and, in runic letters, some verses of one of Cacdmon's poems

Rutland Smallest county of England It covers only 152 sq m, and is wholly inland It is an agricultural area, fairly level, and famous as a hunting shire Oakham is the county town Uppingham is the only other place of importance With the Stamford division of Lincolnshire it sends a

Stamford division of Linconshire it sends a member to Parliament. It is in the diocese of Peterborough Pop (1931) 17,397

Rutland Duke of. English title borne by the family of Manners Richard Plantagenet the Duke of York, who was killed in 1461 was Earl of Rutland and through his depolitor he was the angestor of Theorem. his daughter he was the ancestor of Thomas

Manners, who was made Earl of Rutland 1525 | He received lands in Leicestershire and a later

eal married Dorothy Vernon and obtained lands in Derbyshire John, the 9th earl, was made Duke of Rutland in 1703
Charles, the 4th duke, was Lord Lieutenant of Ireland under Pitt John James Roberts the 7th duke (1818 1906) when Lord John Manners sat in the House of Commons for many years and was a member of the various Tory governments between 1851 and 1892 He died Aug 4, 1906, and his son and thon his grandson succeeded to the title The duke s eldest son is called the Marquess of Granby His seats are Belvoir Castle in Leicestershire and Haddon Hall in Derbyshire

Ruwenzori Range of mountains in Uganda, between Lakes Edward and Albert, and extend for about 70 m The highest peaks rise about 16 000 ft The range was discovered by H M Stanley and may be the Mountains of the Moon, mentioned in ancient fables

Ruysdael He was born in Haarlem about 1628, and passed his life there except for a few years in Amsterdam He died Mar 14, 1682 Ruysdael s pictures are chiefly of rural scenes around his home There are examples in the National Gallery, London

Ruyter Michael Adrianszoon, do Dutch 24, 1607, he became an officer in the Dutch service. In 1666 he was in command of the fleet that defeated the English ships off the North Foreland and salled up the Thames and the Medway In a fight off Sielly, against the French, he was wounded so seriously that he died at Syracuse, April 29, 1676

Rydal Water Lake of Westmorland, a mile long, but is very beautiful and can be reached from Windormere At the east end is the little village of Rydal whore are Rydal Hall and Rydal Falls Rydal Mount, the home of Wordsworth from 1813 to 1850, is near the lake

Ryde Borough and watering place of the Isle of Wight. A ynchting centro, it is 10 m from Newport on the S Rly, and is the chief port for visitors, having regular steamer services with Portsmouth, 4 m away Pop (1931) 10,519

Rye One of the five cereals It will other cereal and is much grown as a food for cattle The ears are also ground into flour and a bread called black bread is made from it There are two kinds summer rve and winter There are two kinds summer rve and winter rve. The straw is suitable for thatching and for bedding The world's production in 1931 was 185 million quarters, or about a third of the amount of wheat. This was chiefly produced in North America, although a good deal was grown in Russia, Germany and Poland In Great Britain and Iroland only 27,000 acres were under rea in 1931. But was recommended. 27,000 acres were under rye in 1931 Rye grass is grown for permanent pasture There are soveral species, but the best are the Italian Linds.

Rye Borough of Sussex. It stands on 2 m from the coast and 72 from London, on the S Rly Formerly one of the Cinque Ports, Rye is a place of unusual interest 'The Land Gate dates from the 14th century and St Mary's church, a fine building, is older The 1 pres Tower, like the gate, is part of the old fortifications The town has the remains of two monasteries The Mermaid Inn is notable. The sea has receded and con is notable The sea has receded and con sequently Rye is now of little consequence as a scaport, although in the Middle Ages it was one of the busicst in England To-day an agricultural trade is done here and a new harbour has been built at the mouth of the Rother Pop (1931) 3947

Rye House House near Hoddesdon in Hertfordshire. Here, some discontented persons planned to murder Charles II and his brother James as they were returning from Newmarket to London, in 1683 The plot failed, as warning was given Some of the conspirators were taken and hanged Lord William Russell and Algornon Sydney were also arrested, tried and beheaded, though their guilt was by no means proved

Ryhope Watering place and market town of Durham It stands on the LNE Rly Pop 11,600

Rylands John English merchant. Born at St Helens, Feb 7, 1801, he joined his father and brother in a cotton manufacturing business at Wigan The firm, manufacturing business at Wigan The firm, Rylands & Sons, opened other departments and soon became one of the largest concerns in the textile trade In 1847 John Rylands became head of the firm, which in 1873 was made a limited company He died at Stretford Deo 11 1888, leaving no children, and his widow inherited a fortune of over \$2,000,000 In 1888 Mrs Rylands bought for \$250,000 the magnificent library of harl Spencer at Althorn To house it she erceted in Deansyste.

Althorp To house it she erected in Deansgate, Manchester, a Gothic building An endowment was also provided and the collection has been by other books and manuscripts, enriched making it one of the most valuable in the country It is called the John Rylands Library

Ryswick Village of the Netherlands from the Hague Here, in 1697, was signed the treaty which ended the war between Great Britain, Austria, Spain and their allies on the one side and France on the other France surrendered all the lands taken since 1670, except the city of Strasbourg and received back Nova Scotta and her possessions in India William III was recognised as King of England and James II compelled to leave France England, Spain and the Netherlands signed the trenty with France on Sept 20, 1697, but the represen tatives of Austria did not sign until Oct. 30

Ryton Urban district of Durham It is on the Tyne 6 m from New-castle on Tyne, on the L NE Rly The industries are coal mining and the making of tron and steel. Pop (1931) 14,204 AALE River of Germany It rises in Bavaria and flows past Halle to join the Elbe, after a course of 225 miles About half of its course has been canalised slows into Germany where, near Trèves, it joins the Moselle It is 152 m long Saarbrucken is on its banks Much of it is navigable and the Saar Canal connects it with

the Rhine-Marne canal

The Saar basin is the name given to a district along the river's course in which are coal mines Saarbrucken is the chief town therein and it covers 750 sq m In 1919 the district, previously part of Germany, was placed under the League of Nations, and governed by a commission of five persons, but in 1934, according to the terms of the Treaty of Versailles, a plebiscite vote was taken, when a large majority voted for return to Germany

sanies, a pieoiscite vote was taken, when a large majority voted for return to Germany

Sabbath The seventh day of the Jewish set apart for rest and sacred purposes became increasingly stringent in oxilic and post-exilic times, till, by the time of Jesus, rigorous Sabbath-keeping, chiefly of a negative kind, was regarded as the supreme form of righteousness See Sunday

Sable Term used in heraldry for a black armorial colour or fineture on the surface or field of the escutcheon or shield, on which the various heraldic animals or objects are portraved. It is represented in engraving or incised work by fine horizontal and vertical lines crossing one another

Sable Island in the Atlantic Ocean It lies off the coast of Nova Scotia, being 100 m from Cape Canso, and is 20 m long It is, as the name suggests, little more than a sandbank and is very dangerous to navigators In the island is a great lagoon It has been planted with trees to make it more pronouncedly visible, and to bind the sand

Sabre Form of heavy sword with one cutting edge and usuall—slightly curved towards the point, although the cavalry sabre of the British Army has a straight blade. The sabre is employed in fencing and duelling, also as a weapon for mounted troops

Saccharin Extremely sweet synthetic compound prepared from toluone A coal tar derivative, saccharin is a light crystalline powder slightly soluble in water Chemically it is a benzoic sulphonimide and is 300 to 500 times sweeter than sugar It is used as a sweetching agent in foods and instead of sugar in diabetic complaints

Instead of sugar in diabetic complaints

Sacheverell Henry English divine

Born in 1674 at Marl
borough, he was educated at the grammar

school there, and at Oxford In 1709 he

delivered two sermons which made him famous,

railing against the Low Church attitude of the

Government, for which act he was impeached

He became a popular hero, but was suspended

from preaching for three years. In 1713, after

a change of ministry he was allowed to preach

before the House of Commons at St Margaret's,

Westminster, and was given the reh living of

St Andrew's, Holborn He died on June 5,

It and Sack Old name for a white wine used in the 16th century. Not unlike sherry, sack was often sweetened, flavoured with spices and mulled, this being probably the drink of Sir John Falstaff in Henry V. The word ses comes from the French, sec, dry

comes from the French, scc, dry

Sackbut Musical instrument used in the Middle Ages It was a wind instrument, not unlike a trumpet, and was made in sets It was very popular, and later it was used by wandering singers and on the stage It developed into the modern trombone The sackbut of the Bible (Daniel iii) was a stringed instrument, the Roman sambuca

Sackville Famous English family Richlandowner in the time of Henry VIII Ho was made a knight, and his son, Thomas, was made Earl of Dorset in 1604 (scc Dorset, Earl of) In 1720 his successor was created a duke, but the title became extinct in 1843, when the Sackville estates, which include Knole, Sevenoaks, passed to a daughter of the 3rd duke She married Earl de la Warr and their son, Mortimer Sackville-West, was created Baron Sackville in 1876 In 1928 Sir Charles John Sackville-West, a soldier, became the 4th baron

Victoria Sackville-West, daughter of Lionel Edward, the 3rd baron (1867-1928) has made a name in literature In 1927 she won the Hawthornden Prize with a poem, The Land She is married to the Hon Harold Nicolson Lady Margaret Sackville, a daughter of the 7th Earl de la Warr, has also published several volumes of poems, including Songs of Aphrodite.

Sacrament (Latin sacramentum, an pecially in Christianity, a sacred ceremony There are, broadly speaking, two views of the sacrament. One, held by the Roman Catholic Church, the Greek Church, and the official Anglican Church, is that without the reception of certain sacraments the believer cannot attain salvation. They are the changels by which God, through the priest, confers His grace or authority upon men. The other view is that they are symbolic only, beneficial to the believer because of his belief in the verities of which they are the sign, but not essential to salvation. A sacrament is "the outward and visible sign of an inward and spiritual grace"

The Greek and Roman Churches recognise seven sacraments baptism, confirmation marriage penance, ordination, the eucharist and extreme unction The Anglican Church insists that only two of these are necessary for salvation, baptism and the holy communion

Sacramento City of California, the capital of the state It is on the Sacramento River, 88 m inland from San Francisco The city has some manu factures and its other industries include railway shops and works for packing meat.

The Sacramento River rece in the north of the state and enters the Pacific Ocean about 50 m N of San Francisco It is 600 m long and is navigable for nearly half of that course Its first 200 m are known as the Pitt

Sacrifice Offering to God, or to a god Sacrifices form part of almost every religion and take the most varied forms. The offering must be that of a living thing.

and animal sacrifices were common among the Jews, Greeks and Romans, as well as among less cultured peoples In many religions human beings were sacrificed and there are traces of this practice among the Jews, for instance in the thwarted slaving of Isaac by Abraham Gradually it died out on any large scale, al though there have been individual cases in recent years, and animal sacrifices persist among primitive peoples to day The idea of human sacrifice passed from Jewish into Christian thought, and the voluntary death of Jesus Christ is regarded as the supreme sacrifice, by it the human race is redeemed from the consequences of sin See ATONEMENT

The Sacrifice of the Mass is a term used by Roman Catholics who believe that every Mass is, in a sense, a repetition of Christ s sacrifice on Calvary, a doctrine which has been repudiated in its exact form, by the Anglican Church, and has never been held by the Greek Church

Sacrilege In English law theft from a church The term is also used for the act of alienating property left for church purposes In the former sense it is a felony to break into a church or other place of divine worship, and can be punished as such

Saddleback Mountain of Cumber land It is 4 m from Keswick and reaches a height of 2850 ft It is sometimes called Blencathra

Saddleworth Market town and urban district of Yorkshire (WR.) It stands on the Tame, 12 m from Manchester, by the L MS Rly A canal passes the town The ohief industry is the manu facture of woollen goods Pop (1931) 12,577

Sadducees Jewish sect The name is taken from that of the high priest Zadok, and the sect appeared about 200 B c They were originally priests who regarded themselves as superior to other priests but after a time they became known by their religious opinions which differed from those of the Jews in general. As stated in the gospels they did not believe in the resurrection of the dead or in the existence of spirits They opposed the teaching of the Pharisees, believing that the law did not require explana-tion and interpretation Little was heard of them after the destruction of Jerusalem

Sadler's Wells Name of a London Rosebery Avenue, Islington near a well that in the 18th centur, was a fashionable spa It was discovered by a man named Sadler who built a music hall here. When this was pulled down a theatre was built on the site Dating from 1765, this became very famous in the 19th century, especially when Samuel Philips presented Shakespearean plays here After his time it became a music hall and then a cinema In 1922 it was decided to rebuild Sadler s Wells and to make it a centre of drama. Money was subscribed and in 1931 it was opened under the same management as the Old Vic near Waterloo Station In 1932 the Carnegic Trust made a grant to help its finances

Sadowa Village of Czechoslovakia It is near the Elbe 74 m from Prague Here on July 3, 1866, the Prussirn army gained a great victory over the Austrians and so ended the war between the two countries. The victory was partly due to the use of the needle gun by the Prussians. The Austrians lost about 10 000 men about 200 000 were en analysis many is cross salvans, and it grows in Europe and Asia. The leaves are about 10 000 men about 200 000 were en analysis somewhat like grass and the flowers

gaged on each side. The Germans call the battle Königgrätz, after a town 4 m away

Special form of chest or chamber Safe for storage of money and valuables against fire and burglary. A safe is made of sheet iron or steel, and in the modern types. of which there are many, the space between the cast steel walls may be filled with in sulating material in which steel rods are ombedded The doors, especially in safe deposits and banks, are massive, and time or combination locks control the bolts

Safeguarding Word used for the against foreign competition, especially competition that is regarded as unfair In Great Britain the first duties of this kind were introduced in 1921, a duty of 331 per cent. being placed on gloves optical and other glass and on articles made in Germany In 1925 the on articles made in Germany In 1925 the principle was extended An import duty of 33½ per cent was placed on lace, gloves cutiery and other articles It was decided that any industry injured by unfair foreign competition could apply to the Board of Irade for safeguarding, and if on enquiry the case was 2 proved, a duty would be imposed. This hald food for several classes of articles. The duties was imposed for foreign several classes of articles. were imposed for 5 years so some of them (" pired in 1930 and were never renewed. In 19 on the adoption of a general scheme of protetion, safeguarding duties were no lonnecessary

Safety First Movement for reducing Safety First the number of accident on the roads and in industrial life. It is directed by the National Safety First Association 52 Grosvenor Gardens London, SW1, which was founded in 1924 This seeks in various ways to instruct people in methods by which ac i dents may be avoided, for instance by issuin literature and holding competitions. It has a Safety First Institute for children, and carries on propaganda in factories and schools

Safety Lamp Special form of lamp used in mines for safet against the inflammable fire damp or methani gas which tends to accumulate in the working-Both George Stephenson and Str Humphra Davy invented sufety lamps, and the Davi lamp in improved form is used in model mines. The lamp has a hollow oylinder of glass below and gauze above surrounding the flame thus allowing the fire damp to pass through and burn without exploding Safety Valve Form of valve fitted to a steam boiler or ressel

holding gases or liquids under pressure to relieve the pressure when too great for safety relieve the pressure when too great for safety Suitable for low pressure in its simplest form, the valve consists of a circular hinged metal plate with a rim of leather which is pressed down over the opening by a weight. Where pressure is greater, as in marine boilers and locomotives, the valve may be regulated by a pressure acting semiglines through a larger.

spring acting sometimes through a lever
Safflower Herb, the flowers of which
are much used as a dice
It belongs to the order Compositue and is found in Europe, Asia and Africa It bears oval leaves and groups of orange coloured flowers The dye, obtained from the flowers is much used in the East for dyeing silk the

are purple The root is a corm rather larger than that of the garden crocus From the herb a substance is obtained which is used in medicine and cooking It is aromatic, but bitter, and is suitable for flavourings

Saffron Walden Borough and mar-ket town of Essex The name comes from the saffron crocus which formerly grew around the town Pop (1931) 5930

Saga Icelandic word meaning "to and used for a story in prose Sagas may be either historical or mythical, but many contain both elements The best were written between 1000 and 1300 Some deal many contain both elements Ti written between 1000 and 1300 with the deeds of the heroes of Iceland, inobtain our information about the earliest was voyages to America Other sagas deal with the deeds of the gods and heroes and are purely legendary, eg, the story of the Volsungs

Sage Herb much used in tookery It grows to a height of about a foot, and bears purple flowers and oblong leaves. Dried or crushed and packed in air-tight bottles, it is much used as a flavouring in cookery

Sago Farinaceous foodstuff prepared from the starchy pith of several species of paims of the genus Metroxylon growing in Malaya and the Dutch East Indies The soft fibrous pith is removed and beaten in water to separate the starch, which settles and is dried and granulated to form pearl sago

Saguenay River of Quebec It rises into the St Lawrence at Tadoussac It passes by Chicoutimi and is navigable from Ha Ha Bay, a pleasure resort on its banks. The river proper is 120 m long but with its head stream, the Peribonka, is 400 m long

Sahara Desert of Africa, the largest in the world It stretches from the Atlantic Ocean to the Red Sea and southwards Atlantic Ocean to the Red Sea and southwards from Morocco, Tunisia and Algeria into the heart of Africa It covers 3,500,000 sq m, and is mainly French territory There are a number of cases in the desert, which is crossed by caravan routes It takes a caravan of camels three months to make the journey by the most direct route The least known part is the district that is in the east called the Libyan desert, where, during the 20th century, a good deal of exploration work has been done. It is believed that the desert in the past was far less waterless and sterile than it is to-day It contains lofty mountain ranges and deep valleys through which at one time rivers ran Plans for crossing it by a railway line have been prepared and another proposal

line have been prepared and another proposal

is to irrigate great portions

Sainfoin Leguminous plant. It has long leaves and plat flowers The seeds are borne singly in pods. It is grown in the warmer parts of England and in France for grazing purposes and also for hay

Saint Holy person, one who has been con-Saint secrated to the divine service More exactly it refers to persons who have been canonised by the Christian Church and are recorded as saints in its calendar The Church of Rome has some thousands of saints, and from time to time fresh names, eg, Joan of Arc in 1920 and Albertus Magnus in 1932, are added The Church of England has re-

tained only some of these, 73 have days given to them in the Prayer Book. The Roman Church permits the invocation of saints In the Church of England certain saint days are observed by special reference in the service to the saint, and by the provision of a special collect, epistle and gospel

Churches are frequently dedicated to a particular saint or group of saints Christian countries and societies, as well as professions and charities, have each their patron saint S George, S Andrew, S Patrick, and S David, are respectively the patron saints of England, Scotland, Ireland, and Wales, and their days are respectively, April 23, November 30, March 17, and March 1 S Luke is the patron saint of the medical profession, S Dunstan the patron saint of the blind The greatest book of reference concerning Churches are frequently dedicated to a

The greatest book of reference concerning saints is the Acla Sanctorum of the Bollandists

St. Abb's Head Headland of Berwick-shire It is 4 m from Eyemouth, and is 300 ft. high, upon it stands a lighthouse The village of St Abbs, a small watering place, is 21 m to the south-east

St. Agnes
Seaport and town of Cornwall It is 9 m from Truro,
on the GW Rly Near the town are St Agnes
Head and St Agnes Beason
One of the Scilly Islands is called St. Agnes

St. Albans City and market town of Hertfordshire It stands on the little River Ver, 21 m from London, and is reached by the L M S and L N E Rlys The cathedral is a fine cruciform church restored in 1856 and once an abbey Notable features are the Norman tower, the Gothic features are the Norman tower, the Gothic nave, the longest in England, and the shrine of S Alban In St Michael's is the tomb of Erancis Bacon. The industries include brewing Francis Bacon The industries include brewing and printing

St Albans occupies the site of the Roman city of Verulanium, and excavations have revealed extensive Roman remains, including the heating The abbey was founded in memory of S Alban in 793, and in 1875 its church became the cathedral of a new diocese Pop (1931) 28,625

During the Wars of the Roses, two battles

During the Wars of the Roses, two battles were fought at St. Albans On May 22, 1455, the Yorkists defeated the Lancastrians, and made Henry VI prisoner, and on February 17, 1461, the Yorkists were beaten here The title of Duke of St Albans has been borne by the family of Beauclerk since 1684 The first duke was a son of Charles II and Nell Gwynn. The duke's eldest son is the Earl of Burford of Burford

St. Aldwyn Earl English statesman Michael Edward Hicks-Beach was born Oct 23, 1837, and educated at Eton and Christ Church, Oxford In 1854 he became a baronet, succeeding his father In 1864 he was elected M P for East Gloucestershire and he remained in the House of Commons until made a viscount in 1906

A Conservative, he hold office in 1868, from 1874-78 he was Chief Secretary for Ireland and from 1878 to 1880 Colonial Secretary In 1885 he was Chancellor of the Exchequer, and in 1886-87 Chief Secretary for Ireland In 1888, after a short retirement, he was made President of the Board of Trade He left office in 1892, returning in 1895, and was Chancellor of the Exchequer until 1902, when he resigned on account of his free trade views In 1915 he was In 1915 he was made an earl, and died April 30, 1916

grandson succeeded to the earldom Lord St Aldwyn's Life was published in 1932

Andrews Burgh and watering place of Fifeshire It stands It stands on a bay, an opening of the North Sea, and is one of the most picturesque places in Scotland It is 12 m from Dundee and is reached by the LNE Rly There are ruins of the castle and the cathedral, both closely associated with the history of Scotland and the names of Knox, Beaton and others The Martyrs' Memorial, to the honour of the Protestant martyrs of the Reformation period, stands on a cliff over

The University of St Andrews dates from 1411 University College, Dundee, is part of

the university

St Andrews is the headquarters of the Royal and Ancient Golf Club, the controlling body of the game. It was founded in 1754 and has four links The burgh is named after St Andrew whose bones are said to have been brought here in the 7th century In the 9th century it was made a bishopric and until 1688 its archival and the 18 century it was made a bishopric and until 1688 its archival and the 18 century it was made a bishopric and until 1688 its archival and the 18 century its archival and the 18 century in the 18 century i bishop was Primate of Scotland. Pop (1931) 8269

Anne's-on-Sea Watering cashire It stands on the estuary of the Ribble, 4 m from Blackpool, and is part of the urban district of Lytham (qv) St. Annes is on the and possesses golf links and other LMS Rly and posses attractions for visitors

St Asaph City and market town of bigh, on the L M.S. Rly The cathedral dates from the 15th century and was restored in the The city has an agricultural trade Near here the rivers Clwyd and Elwy unite, the latter is crossed by an old bridge The Welsh name of the city is Llanelwy Pop 1833

St Austell Urban district and market town of Cornwall It is a centre for the mining of china clay, tin is also worked Pop (1931) 8295

Bartholomew's Day Festival of St Bartholomew, Aug 24 On it in 1572 a number of Huguenots were massacred in 15/2 is number of inguence were massives in France. The occasion was the marriage of Henry, King of Navarre, with Marguerite, sister of King Charles IX. Feeling between the adherents of the two faiths, Roman Catholic and Protestant, was very bitter, and it did not need much to create a riot. This began on the wedding day and continued until October It is believed that it was an organised attempt, favoured by the queen mother, Catherine de Medici, to crush the Huguenots, of whom per-haps 30,000 were killed Pope Gregory XIII

celebrated the event by issuing a medal

St Bees Seaside resort of Cumberon the LMS Rly Near is the promontory

on the LMS Rly Near is the promontory called St. Bees Head Pop (1931) 950

St Bernard Name of two passes over the Alps The Great St Bernard goes from Valais in Switzerland into Italy It is over 8000 ft. high, and was used by the Romans The pass is known for the monastery, or hospice, founded in the its monastery, or hospice, founded in the 10th century and famed for sheltering travellers and for succouring by aid of its dogs, those lost in the snow Here is a museum

The Little St Bernard crosses the Graian
Alps It is 7000 ft high and was also used by the Romans On it is a hospice and

an observatory

St. Bernard Breed of dog It is a kind of mastiff, but possesses individual points, especially an exceptional intelligence. The dogs are distinguished for their great size, hanging lips and large ears. They are kept at the St Bernard hospice for finding lost travellers and also by private persons as pets

St. Boniface City of Manitoba It stands on the cast side of the Red River at its junction with the Assimboine Winniper is on the other side. The city is served by the CP and CN Rlys, and its industries are the same as those of Winniper Pop (1931) 16,305

St Brelade Village of Jersey On St Brelade Brelade's Bay, on the west side of the island, it is a small watering place

St Christopher Name for the island of the West Indies. also known as St. Kitt's (q v )

St. Cloud Town of France It is on the Scine, just outside Paris, and can be reached by steamer, as well as by rail It is noted chiefly for its palace and its porcelain The palace was built about 1600 and at one time Napoleon lived there, as did several of the kings. It was damaged by the Germans in 1871 and later was pulled down The park

is a popular pleasure resort. The porcelain, known as St. Cloud, was made here from 1697 to 1773 in a factory belonging to the kings. The Ordinances of St. Cloud, issued by Charles X in July, 1830, abolished many of the liberties of the people and so were responsible for the Revolution and the king's abdication.

Cyr Village of France It is 13 m from Paris and is famous because here is the college for training officers for the French army, the equivalent to Sandhurst Originally it was a school founded by Madamo de Maintenon for girls of good birth who had fallen on evil times Napoleon converted the building in 1806 to its present purpose

St. Davids City of Pembrokeshire It is 15 m from Haverford-west and is reached by motor coach About a mlle from the coast and near St. David's Head, it is the most westerly point of Wales and is famous for its cathedral, restored in the 19th century There has been a bishop of St. Davids since about 600 Near the cathedral are the ruins of the bishop's palace and of a college

Denis Town of France It stands on the Seine 4 m from Paris, is famous for its church St Denis, the and is famous for its church patron saint of France, was buried here and near his tomb a monastery and a church were built In the church some of the early Frankish kings were buried A large and magnificent building, it was restored in the 19th century The town has a number of manufactures and a considerable trade along the river Pop (1931) 82,412

St Dunstans Institution or hostel in London for training the blind It was founded by Sir Arthur Pearson for soldiers blinded in the war and its home is a fine house in Regent's Park called St Dunstan's Lodge In addition to the teaching of Braille, trades of all kinds are taught and various social and other activities organised The hostel has a holiday home at North Berwick

Sainte-Beuve Charles Augustin French writer He was born at Boulogne, Dec. 23, 1804, studied

medicine in Paris, after an early education at Boulogno, and soon began to write In 1840 he was made librarien of the Mazarin Library in Paris, and in 1845 was elected to the Academy From 1848 to 1851 he was an exile in Liége, after which he was professor at the College de Frunce and the Ecole Normale in Paris In 1865 he was elected to the senate, and he died Oct 13, 1869 Sainte-Beuve is best known for his literary criticisms They have been collected into several volumes, Causeries du Lundi, Nouveaux Evenates Preparer Legales etc.

Sainte-Beuve is best known for his hterary criticisms They have been collected into several volumes, Causaries du Lundi, Nouveaux Lundis, Premiers Lundis, etc., the names being due to the fact that they were first contributed to periodicals that appeared on Monday He also wrote a valuable Histoire de Port Royal, a novel, Volupié, as well as Critiques et Portraits Littéraires, and many other volumes

St. Elias Mountain of Alaska It is near the frontier of Canada and is one of the lofticat peaks in North America, its height being 18,000 ft On it is a glacier covering 1200 sq m
St. Elmo's Fire Silent electrical distinguishers and such attractions as meets of

St. Elmo's Fire Silent electrical disatmosphere and such structures as masts of ships, flagstaffs and trees. It is accompanied by a pale brush-shaped light, and is seen sometimes at night during thunders or stormy weather. This phenomenon is known also as corposant, or fire of St. Elias.

St. Eloi village of Belgium It is 2 m from Ypres and was the scene of constant fighting during the Great War An attack was delivered here by the Germans on March 14, 1915, at the close of the battle of Neuve Chapelle They took some ground, but most of this was recovered by the British In March, 1916, the British attacked here, and there was some determined fighting The British, however, kept the village until the end of the war

of the war

St. Etienne Town of France It is
railway Of modern growth, it is a great
manufacturing centre, making not only textile
goods, but also iron and steel products During
the Great War its output of munitions was

goods, but also from and steel products During the Great War its output of munitions was immense Pop (1931) 191,088

St. Gall City of Switzerland It is 52 m
Lake Constance It is femous for its Benedictine monastery founded by St Gall, which was a great centre of learning in the 8th and 9th centuries Its church was restored in the 18th century and is now a cathedral The abbey library possesses some of the most valuable manuscripts in the world The city has some manufactures and is the capital of the canton of St Gall Pop (1931) 63,947

St Gaudens Augustus American March 1, 1848, of French and Irish parentage, he was brought up in New York There and in Paris he studied art and soon made a name by his works These include a bust of R. L Stevenson and a statue of Lincoln, a copy of which is near the Houses of Parliament at Westminster He died Aug 3, 1907

St. George's Channel of the Atlantic Ocean It extends for about 100 m between Ireland and Wales and is connected to the north with the Irish Sea It varies in breadth from 50 to 90 m

St Germain Treaty of Treaty which tween the Allied Powers and Austria. It was

signed at St Germain-en-Lave, Sept 10, 1919, and ratifications were exchanged July 16, 1920 It established the frontiers of Austria, including German Tyrol, South of the Brenner in Italy, and of German Bohemia in Czechoslovakia Allowances were made for the protection of minorities, but Austria had to renounce all claims in Egypt, China, Morocco, and Spain All armed forces were limited, and reparations were imposed

St. Germans Market town of Corn-Plymouth, on the GW Rlv it stands on the opening of Plymouth Sound called Lynher Creek or the St Germans River The parish church is a beautiful old building, partly Norman

The title of Earl of St Germans has been borne by the family of Eliot since 1815 Port Eliot, near St Germans, is the family seat, and the earl's eldest son is named Lord Eliot

St. Gotthard Pass over the Alps It leads from Switzerland into Italy and beneath it is one of the most famous tunnels in the world The pass itself is just under 7,000 ft. in height and was used in the 6th century or earlier In the 19th century it was made a carriage road, and later (1872-82) a railway was built across it from Lucerne to Milan It reaches a height of nearly 4,000 ft and has 80 tunnels The chief tunnel is over 9 m long There is a hospice at the summit of the pass which has been at least twice rebuilt. It existed in 1330 or earlier

St. Gregory the Great Order of Papal order It dates from 1831 and is given for services to the church, both in a civil and military capacity The badge is a Maltese cross bearing in the centre a golden bust of St Gregory on a blue field The ribbon is red with a yellow border

St. Helena Island in the Atlantic ocean It is a British possession and is 1140 m from the coast of Africa and 4477 m from Southampton The nearest land is Ascension Island, 760 m to the north-west The island is 10 m long, covers 47 sq m and is partly mountainous Cedar and other trees grow freely and Now Zealand flax is cultivated here Jamestown on St James Bay is the capital, and the island is under a governor It is a coaling station and a cable station

In 1502 the island was discovered by a Portuguese sailor on S Helena's day, and some Portuguese were its first inhabitants For a time a Dutch possession, in 1651 it was taken by the English East India Company, which introduced slaves and cultivated the soil The company handed it over to the British Government in 1834 From 1815 to 1821 it was Napoleon's prison, Longwood being his residence In 1900-02 Boer prisoners were kept here and there was a garrison on the island until 1906 Before the opening of the Suez Canal it was an important place of call for ships Pop (1930) 3905

St. Helens County borough and market town of Lancashire It is situated on a tributary of the Mersey, 14 m from Liverpool, on the L N E and L M.S Rlys It is also connected with other centres by a canal The town's chief industry is the manufacture of glass, but there are also chemical works, pottery works and iron foundries In the neighbourhood are collieries Pop (1931) 106,793

milway terminus There is a good harbour improved since the Great War, and regular communication with Southampton (air and steamer), Weymouth, Cherbourg and other places There is some fishing Pop 26,314

St Hyacinthe City of Quebec It stands on the Yamaska River, 36 m from Montreal, and is served by both the CP and CN Riys There are some manufactures Pop (1931) 13.445

St. Ives Seaport, borough and market town of Cornwall It stands on St Ives Bay, on the west side of the county 8 m from Penzance, and is on the GW Rly There is a harbour and the industries include fishing and some shipping. It is a famous resort for artists in the summer. Pop. 6687

for artists in the summer Pop 6087

IVES Borough and market town of Huntingdonshire It stands on St the Ouse 3 m from Huntingdon, on the L N E and L M S Rlys An object of interest is the picturesque chapel on the old bridge across the river There is an agricultural trade and large

rattle malkets Pop (1931) 2664
St James's Palace Royal palace
In London It occupies the site of a leper hospital dedicated to St James the Less and became royal property in the time of Henry VIII who built a palace here In the 17th century it became the chief London residence of the sovereign and so it remained until the time of George and so it remained that the time of declars and in it palace. It is now used for levees and in it certain officials of the royal household live Part of it forms York House the residence of King Edward VIII when Prince of Wales The chapel royal the gateway and the presence chamber date from the time of Henry VIII

the rest is more recent.

St James's Park, once the park of the palace, extends from Whitchell to Buckingham Palace and is flanked by the Mall and Birdeage Walk It covers 03 acres and in it is an orna mental lake It was laid out by Charles II

and is now open to the public

John Scaport and capital of county in New Brunswick, Canada, at the mouth of the St John River on the Bay of Fundv A terminus of the CP and CN Riys, it shares with Halitax the Atlantic trade during the winter, and is an important distributing centre Pop (1931) 69,093

The St John River has a branch rising in Maine, U.S.A., and another in Quebec pro-It is navigable for large steamers for a Ince

80 m and for small ones for 220 m

St John of Jerusalem, Order of Charl table religious order. It was founded in Jerusalem about 1048, for the relief of Christian pilgrims to the Holy Land, and now helps to carry on the work of the St John Ambulance Association Its distinctions are conferred in recognition of services in the cause of humanity throughout the British Empire

Johns Capital and chief scaport of Newfoundland It stands on the east coast of the island, 560 m from Halifax, and is the terminus of a railway line There is a good harbour and from here ships go

St Helen's Urban district and waterWight It is on the north-east coast of the island, 4 m from Ryde, on the S Rly Pop (1931) 5478

St Heller Scaport, market town and St Heller Scaport, more town and bay on the south side of the island and is a rallway terminus There is a good harbour proposed since the Great War, and regular in arricultural produce and some manuface in agricultural produce and some manufactures. The name was formerly Dorchester The French call it St. Jean. Pop. 7734

St John's Wood District of Lon property of St John s priory at Clerkenwell It is to the north west of the city in the borough of Marylebone on the Metropolitan Rly Here is Lord's cricket ground

St John's Wort Perennial evergreen Perforation) one or two feet in height with branching stems and clusters of large yellow flowers. It thrives in shady places and is easily propagated by planting rooted pieces in late summer

Just Market town and urban district of Cornwall It is 7 m from Penzance and is a centre of the mining industry. It is reached by the G W Rly and by motor omnibus from Penzance The town possesses a round, or theatre, in which morality plays

wore produced. Pop (1931) 4356

St Kilda Island of the Hebrides It is part of Inverness shire, being 40 m to the west of North Uist, and the most westerly of all the islands It is now uninhabited as in 1930, at their own request, the inhabitants were removed to the mainland It covers about a square mile and is a great haunt of sea fowl

St Kitts Island of the Leeward group, Christopher It is 46 m from Antigua and covers 68 sq m Bassetorre is the capital covers 68 sq m Basseterre is the capital and the chief scaport Sugar is the staple product of the island For purposes of government St Kitts ranks as part of the Leeward Islands It was discovered by Columbus in 1493 and became British in 1713 Pop 17,978

Lawrence River and gulf of North The river

The river issues from Lake Ontario where it contains the Thousand Islands, and flows past Montreal, Quebec and many other places to the Atlantic Ocean. During a large part of its course it is over a mile wide, near Anticosti it is 100 m Its tributaries include the Richelieu wide Saguenay, Ottowa and Outorde Its total

length is nearly 2300 m

The St Lawrence is one of the world's greatest waterways as canals have been cut to make it navigable by large vessels up to the head of Lake Superior Ocean steamers can get as far as Montreal, but ice closes it in the winter months In 1932 a treaty was signed between Canada and the USA to improve the channel between Kingston and Montroal so as to allow ocean vessels to reach the head of the Great Lakes development to involve the generation of some 5,000 000 hp of electric energy In 1934 USA refused to proceed with the scheme

The Gulf of St. Lawrence is 500 m across and covers 80,000 sq m It is formed by the St Lawrence and begins at the struit of Bello Isle between Canada and Newfoundland That strait, the Gut of Canso and Cahot Strait, connect it with the Atlantic

St. Leger English horse race It was started in 1776 by Col St Leger of Parkhill, Doncaster, and is one of the great races It is run at Doncaster in September The course is just under two miles and the race is for three year old horses

St. Leonard's Forest District of Sussex It is a woodland area lying to the east of Horsham

St. Leonards-on-Sea Watering place of Sussex Part of the borough of Hastings, lying to the west of that town, it has a fine promenade and a pier See HASTINGS

Saint Louis City of Missouri On the Mississippi River, it is the fourth largest city in the States, and one of the finest Since 1790, when it was settled as a trading post, its growth has been steady, and it now boasts of fine federal buildings, wide open streets, a magnificent bridge and a university It has a large German population. Its chief trades are ment packing. Its chief trades are meat packing, acco and white lead Pop (1930) population leather, tobacco and white lead 821,960

St Louis is also the name of the capital of the French colony of Senegal, West Africa It is situated on an island 11 m above the mouth of the Senegal River It has an active trade with the countries around, but a borne trade is rendered difficult owing to a sandbar

at the mouth of the river

St. Lucia One of the Windward Islands
St. Lucia The largest of the group, it
is 24 m south of Martinique and belongs to
Great Britain Its area is 233 sq m, and its
length 27 m Castries is the capital and the length 27 m Castries is the capital and a chief seanort The interior is mountainous, but there are fertile valleys in which sugar, coffee and spices are produced. There are many forests and much timber is out. It is governed by an administrator who has the assistance of two small councils. The island was discovered by Columbus in 1502 and having been alternately French and English, finally became a British possession in 1803 Pop (1931) 59,676

St. Malo Seaport and watering place of Brittany, France It stands on a peninsula opposite Dinard at the mouth of the Rance and is reached by steamer from Southampton and elsewhere The town walls, with their eight gates, still stand There is a with their eight gates, still stand There is a casino and good sands, a good harbour and a considerable export trade Many of the inhabitants are fishermen A seawall, called the Sillon, connects St Malo with the mainland, and boats go regularly to Dinard and elsewhere Pop 13,000

St. Martin Island of the West Indies
Antilles and covers 37 sq m It is owned in
part by France and in part by the Netherlands
The northern portion, which is French, is
governed from Guadeloupe, the Dutch portion

from Curação

St. Mary's Largest of the Scilly Isles
It lies about 27 m from
Land's End and is reached by steamer
from Penzance On it is Hugh Town, the
capital of the island The objects of interest
including a prehistoric village There is a
great harbour and the main industry is including a prohistoric village. There is a good harbour and the main industry is the growing of flowers and vegetables for the I nglish market.

It its sault or rapids, about 1 m long To avoid by these, two ship canals, the Sault Sainte Marie is canals, have been cut See Sault Sainte Marie

St. Mawes Scaport and watering place of Cornwall It stands on an opening of Falmouth Bay, 3 m from Falmouth. The chief object of interest is the castle Fishing and catering for visitors in the summer are the principal industries It is reached by ferry from Falmouth

St. Michael and St. George Eng was founded in 1818 for persons from the Ionian Islands and other British possessions of the Meditorranean Later it became an order for those who have served the crown in the overscas parts of the British Empire Members are of three grades G C M G, or knight grand cross, K C M G or knight commander, C M G, or companion The badge is a white cross, with the figure of St Michael trampling on Sastan in the centre On the other side is St George The motto is auspicium melioris acti (augury of a better age) The ribbon is blue with a crimson centre

St. Michael's Mount Islet in Mount's Bay, Cornwall It is 3 m from Penzance, and at low tide can be reached by a causeway. On the isle is a castle, a seat of Lord St Levan. Earlier there was a hermitage and then a Bene-dictine abbey here The castle stands on a rock 230 ft high and the isle is about a mile round.

St. Mihiel Town of France It stands on the Meuso 20 m from Vordun It was famous for its Benedictine abbey founded in the 8th century

The town was taken by the Germans in

The town was taken by the Germans in Sept 1914, and there was a good deal of fighting around it during the Great War St. Moritz Pleasure resort of Switzer 197 m from Coire, and stands at a height of 6000 ft Its mineral springs attract invalids, but it is perhaps more famous for its winter sports, as here is the Cresta run St. Nazaire Scaport of France It stands near the mouth of the Loire, is the port of Nantes and has an old and a new harbour, the latter being able to take the largest vessels There are dry docks and other accommodation for the shipping.

and other accommodation for the shipping, which is chiefly with S America Pop 39,711.

St. Neots Urban district and market town of Huntingdonshire It is situated on the Great Ouse, 8 m from Huntingdon, on the LNE Rly Paper is made and there is an agricultural trade Pop (1931) 4314

St. Omer Town and river port of France. It is 42 m. from Lille on the little River Aa and is also served by a canal that connects it with the sea. The Church of Notre Dame was once a cathedral Haut Pont is a suburb inhabited by Flemings The town has some manufactures and there is a harbour for the shipping on the canal From Oct, 1914, to March, 1916, St Omer was the British headquarters in France Pop 18,858

St. Pancras Borough of the county of London It lies to the north-west of the city and includes the populous districts of Camden Town, Kentish Town and Somers Town, as well as part of Highgate In it are the great railway termini St. Mary's River of Canada. It flows of Euston, St. Paneras and King's Cross. Lake Huron and is 40 m long. It is known for (1931) 198,113

St. Pancras Station, opened in 1871, was, until the amalgamation, the headquarters and London terminus of the Midland Rly I throw fulfils the same function for the L.M S Rly

St. Patrick Order of Irish order of knighthood It was founded in 1788 and its rules were altered in 1905 It consists of 22 knights, who are distinguished as KP The ribbon is sky blue and the motto, ques separabit, is surrounded by a wreath of shamrock

St Paul City of Minnesota and the Mississippi and served by several lines of rallway, it is an important rallway junction and great distributing contre especially for cattle Other industries are the manufacture of clothing and hardware, printing, meat packing etc. On the other side of the Mississippi is Minneapolis Pop (1930) 271,606

St. Paul's Cathedral Cathedral the diocese of London It stands at the top of Ludgate Hill in the heart of the city, and is surrounded by streets with ecclesiastical associations, such as Amen Corner, Creed Lane and Paternoster Row The present building is the third to occupy the site The first was burned down in 1086 and the second in 1666 during the Great Fire The third and present one was built between 1675 and 1710 from designs by Sir Christopher Wren It is a Renaissance building, unlike any other English cathedral Features of the building are the dome, the crypt in which many famous men are burled and the whispering gallery It contains many naval, military and other memorials. The choir has stalls carved by Grinling Gibbons and is decorated with mosaics by Sir W B Richmond The churchyard has been reduced in size, the existing part is a public garden and in it are the remains of an open air pulpit on the site formerly known as Paul's Cross "

In 1913 greve anxiety was felt about the foundations of St Paul's, and a good deal of work was done to strengthen them This proved inadequate, and in 1925 much of the building was closed for more extensive operations, which included the placing of a chain around the dome The cathedral was reopened in 1930 The height to the top of the cross on

the dome is 365 ft

St Peter Port Town and watering also the capital of the island It is on the east coast and has a large harbour There is a regular service from here to Southampton Weymouth, Cherbourg and elsewhere Here are the royal court house and Hauteville House, once the residence of Victor Hugo and now a museum Objects of interest include Castle Cornet on an islet in the harbour, and two old forts

St. Peter's Church in Rome It is the largest in the world and the chief shrine of Roman Catholicism. It was begun in the 15th century, on the site of a basilica creeted by Constantine over the tomb of St. Peter It was added to and decorated by Michelangelo and was finished in 1667. The interior is in the form of a cross, and a huge dome resting on four massive piers rises above the centre Under the dome is the High Altar, where Mass is celebrated by the Pope

St Quentin City of France It stands on the Somme, 95 m from Parls by railway The church, once a cathedral,

was almost destroyed during the Great War, but was afterwards restored The town hall was also badly damaged The industries are the manufacture of cotton goods and other textiles It has a broadcasting station (175 M.) Page (1821) 40 418

Pop (1931) 49,448

Owing to its frontier position St. Quentin has been the scene of a good deal of fighting Here, in 1557, the Spaniards defeated the French and in 1871 the French defeated the Germans In Aug, 1914, the Germans entered the city, which they retained until Oct., 1918. The great German attack of Mar 21, 1918, in which the British fifth army was overwhelmed, is sometimes called the Battle of St Quentin

Saint-Saens Charles Camille French composer Born in Paris
Oct 9, 1835, he studied music at the Conserva
toire there In 1853 he was appointed organist
of the Church of St Merri in Paris, and in 1858
of the Madeleine He retired from that position
in 1877, and gave recitals in Europe and
America He composed several operas, notably
Samson and Delilah, and some pieces for the
orchestra, in addition to church music He
died Dec 17, 1921

St Sampson Town of Guernsey It from St Peter Port with which it is connected by tramway There is a small harbour from which a kind of blue granite, quarried in the neighbourhood, is exported

Saintsbury George Edward Bateman English scholar Born at Southampton, Oct 23 1845, he was educated at King's College School, London and at Mierton College, O ford He was a schoolmaster in the Channel Islands for 8 years, after which turned to journalism. In 1895 he was made Professor of Rhetoric at Edinburgh, and there he remained until 1915, when he retired to Bath He died in 1933

Saintsbury has won for himself a unique place as a writer and critic He has read enormously in both French and English, more perhaps than any of his contemporaries and the fruits of this are in the long list of books that stand to his credit These include A History of Criticism, The English Novel, A Short History of English Literature A Short History of French Literature 4 History of the French Novel, Elizabelhan Literature, A Consideration of Thackeray, and others, each showing an unrivalled knowledge of the subject

Saint-Simon Due de French writer Simon was born at Versailles Jan 16, 1675, and in 1693 became a duke He joined the army and fought in the war against England In 1714 he became a member of the council of regency for Louis XV, and he took part in public affairs until 1723, chiefly as the friend and supporter of the Duke of Orleans The rest of his life, which ended in Paris, March 2, 1755, was passed in retirement

His *Memoirs* are one of the most valuable sources for the history of the time

St Thomas City of Ontario It is 157 m from Toronto and stands on an opening of Lake Erie It is served by the CPR, CNR, and other lines There are some manufactures and a trade in agricultural produce Pop 16,028 Words March

St Thomas One of the Virgin Islands, from Porto Rico and covers 32 sq m Charlotte Amalie is the capital There is a fine harbour used by ships for obtaining coal and oil, and

The people are mainly negroes Pop 9834

St. Thomas Island of Africa On the west coast, it is 170 m from the mouth of the Gabun River and is in the Bight of Biafra It covers 360 sq m, and San Thome is the capital Cocoa and rubber are grown and exported, as the soil is very fertile The island belongs to Portugal and is governed from Principe Pop 68,000

St. Vincent One of the Windward Islands, West Indies It is 21 m to the south of St Lucia and 95 m from Barbados In it is an active volcano, Soufrière, which crupted and did great damage in 1902 The soil is generally fertile and produces cotton, sugar, coffee and spices Kings-

duces cotton, sugar, coffee and spices Kingstown is the capital The island covers 150 sq m and is 18 m long It has been British since 1783 It is governed by an administrator assisted by a small council Pop (1931) 47,961

St. Vincent Cape of Portugal Near it, on June 16, 1693, a French fleet defeated the British under Sir George Rooke, and on Jan 16, 1780, a British fleet under Admiral Rodney defeated the Spanlards Near here, too, on Feb 14, 1797, a British fleet of 15 ships under Sir John Jervis attecled 27 Spanjeb vessels. attacked 27 Spanish vessels. After a hard fight the Spaniards were beaten, four of their ships being taken, and England was saved from attack by the combined Franco-Spanish fleet. The victory was largely due to the genius of Nelson, who disobeved the orders of Jervis et a critical moment

St. Vincent Earl of English title borne by the family of Jervis John Jervis was born Jan 9, 1735, and joined the navy when a boy He served in the Seven Years' War (1756-63) and again when France went to the assistance of the American colonists His exploits included the capture of the islands of Martinique and Guadeloupe after war broke out with France pa 1793 but he is best known for his victory Guadeloupe after war broke out with France in 1793, but he is best known for his victory over a Spanish fleet off Cape St. Vincent in Feb., 1797, which made it impossible for the French, the allies of Spain, to invade England He was then created an earl St Vincent commanded a fleet from 1799-1801 and 1806-07, and was first Lord of the Admiralty, 1801-04 He died March 14, 1823, and the title is now extinct. now extinct

St. Vitus's Dance Popular name for the nervous affection properly called chorea (qr)

Sakaria River of Asia Minor It flows in the country until it enters the Black Sca On its banks a battle was fought between the Greeks and the Turks in 1921 Fighting began

oreeks and the Turks in 1921 Highting began on Aug 23, when the Greeks reached the defences erected by the Turks and continued until Sept 12, when they withdrew Saké Drink made in Japan It is made from rice and is strongly alcoholic In colour it resembles a light beer, but it is much more potent, its strength being due to claborate fermentation claborate fermentation

Sakhalin Island of Asia It lies near the covers about 56,000 sq m It is 670 m. long The northern part is Russian territory, but the southern belongs to Japan, to whom it was ceded in 1905

Until about 1800 the island was a Chinese

the climate makes the island a popular winter resort St Thomas belonged to Denmark from 1671 until it was bought by the USA in 1916
The people are mainly negroes Pop 9834

The chief industry is fishing, salmon and her-The chief industry is fishing, salmon and her-ring especially, coal is mined and there are oil wells Railway lines have been built. The climate is cold and there are extensive forests. The Japanese call their portion of the island Karafuto

Saki Genus of monkey Found only in the forests of the Amazon, they have white and vellow faces and the body is covered with thick hair A feature is the long tail The best known species is the black saki.

Salaam Arabic word meaning peace It is part of a general salutation used by Mohammedans on meeting and parting It is also a general term for a salutation, as when an Indian bows low with the hand upon

the forehead as a sign of respect.

Saladin Sultan of Egypt Born in 1137, he won renown when fighting in Egypt for the Caliph against the Christians, and in 1170 he became vizier of the country He extended his authority and was soon Sultan of Egypt and Syria and had conquered Mesopotamia and most of Asia Minor

Saladin is best known for his campaigns against the Latin kingdom of Jerusalem in the third crusade, which began in 1187 In spite of the efforts of the Crusaders, he captured that the contraction of the contractions of the contractions of the contractions. Jerusalem and other places, and continued his victorious career until he was checked by Richard I, who arrived with a fresh army A truce was made in 1192, and on Mar 4, 1193, Saladin died.

A tax levied in England in 1188 to raise money for the third crusade was called the Saladin tithe

Salamanca Town of eastern Spain, on the River Tormes, 172 m by rail NW of Madrid Ruled in turn by Carthaginians, Romans Goths and Moors, it was famous in the middle ages for its university. etty It has two cathedrals possessing relics of great historical interest, while the university of treat historical interest, while the university buildings include fine examples of 15th century Gothic work. There are some beautiful old houses, and a bridge of twenty-six arches, fifteen of which are Roman The colonnaded Plaza Mayor is one of the finest squares in Europe To day it is an important rulway centre and has a broadcasting station (453 2 M., 1 1 W.) Pan (1931) 18 225 1 LW ) Pop (1931) 48 235

Salamanca Battle of Engagement in the Peninsular War, fought July 22 1812 It was the most important victory that Wellington gained in the Penin-sular War He used the fortresses of Cludad Rodrigo and Badajoz as the bases of his operations, and then marched into Spain, against Marmont, whom he completely routed Both opposing forces were about 42,000, but the French lost about 8000 men, and 7000 prisoners, and the way was then clear for Wellington to march on into Madrid

Salamander Members of an amphi-Salamander bian tamily Salamanders are found in Europe and West Asia, and ers are jound in Europe and west Asia, and have four fingers and five toes Salamandra maculosa, the fire or spotted salamander, is about 6 in long, and when afraid, ejects a white poisonous fluid through the skin. Its young are born as larvae in spring, and it eats flesh Salamandra atra bears two well-developed young at once, and the male Caucasian salamander is distinguished by having a projection at the root of the tail

Salamis Island of Greece It is in the Bay of Eleusis near Athens, and covers 35 sq m Salamis, on the west coast is the chief town and scaport The island was an independent state until about 620 BC

Later it was ruled by Athens
The famous Battle of Salamis was fought
between the Greeks and the Persians in 480 B C Themistocles, by giving the enemy wrong in formation persuaded the Persians to attack, and for some hours the battle raged the Persians in the end, being utterly defeated The de struction of the Persian fleet saved Athens, as the Persian army withdrew into Thessaly

Sal Ammoniac Common name for ammonium chloride obtained by absorbing ammonia from gas liquor in hydrochloric acid and afterwards purifying the product by sublimation. It is a white fibrous substance when sublimed, and is used as a charge for electric batteries, also in galvanising iron, as a flux in soldering, and in medicine

Salcombe Urban district, scaport and watering place of Devon shire It is 11 m from Dartmouth Standing en Salcombe Haven, it was once a port of some importance, and its vessels, Salcombe elippers were famous There is a coasting trade The climate is very mild and there are great attractions for visitors Pop (1931) 2383

Sale Transfer of property for money or other equivalent English law distinguishes between the sale of goods and the sale of land As regards the former the law is contained in an Act passed in 1893 The property in the goods passes to the buyer as soon as the contract is made, he need not wait for their actual delivery as is the case in some countries Thus, if a man buys a suit and asks for it to be sent home, it is his property from their moment, not from the moment. perty from that moment, not from the moment it reaches his home In some legal systems ownership only comes with actual possession. In the case of a sale of goods for over £10, there must be a memorandum in writing, or a part payment, or acceptance of the goods, or something to show that a contract has been made, otherwise no action can be brought in the courts The sale of land is done by con

in the courts The sale of land is done by conveyance of the title, quite a different process See CONVEYANCING, LAND

Sale Urban district of Cheshire It is 5 m from Manchester, of which it is practically a residential suburb, and about a mile from the Mersey It is reached by the Cheshire Lines Rlys Pop (1931) 28,063

City of Palestine It was a city of the Jobusites and is mentioned Salem in the Bible (Gen xiv), its king being Mclchize It was identified with Jerusalem, which is

dok It was identified with scrussiem, which is called Salem, or the city of peace, in the Psalms and in other poetic literature

Salem City and seaport of Massachusetts
It stands on Massachusetts Bay,
16 m from Boston and is served by several lines of rallway It has some manufactures,

have account it less properties than formerly but as a scaport is less prosperous than formerly

As one of the oldest places in the United States, Salem has some interesting relies of the past It was dominated by the Puritans and was noted for its aversion to witchcraft. Many supposed witches were put to death here, and the house in which they were examined still stands Salem is also associated with Nathaniel Hawthorne, and the house in which he was born, also the house of the Seven Gables, may be ecen Pop (1930) 43,353

Salerno City and scaport of Italy It is situated on the gulf of the same name 34 m from Naples The 11th century cathedral contains some magnificent carvings For some time in the Middle Ages the city was a stronghold of the Normans In 1150 they founded a university here and this became famous as a centre for the teaching of medicine It ceased to exist in 1817 Pop (1931) 62,308

Salesmanship Art or practice of the Great War a good deal of attention has been paid to this branch of commerce and schools have been argued where the terrority schools have been opened where it is taught This is especially the case in the United States where the teaching of salesmanship is carried out in great detail There are in Great Britain associations for arousing interest in the necessity of an improved technique of salesmanship See ADVERTISING

Salford County borough of Lancashire It is on the south side of the River Irwell, which divides it from Manchester, and is 190 m from London It is reached by the LMS Rlv The industries include engi neering works, cotton mills and chemical factories The borough includes Broughton, Pendleton and other districts and in it are Kersal Moor, Peel Park Albert Park and other open spaces Its water supply is provided by Manchester and other services are common to the two places, but Salford retains its own mayor and corporation Pop (1931) 223,442

Salicin Crystalline glucoside occurring in willow and poplar bark, and forming colourless tabular crystals having a bitter taste It is used in medicine for rheuma tism and influenza.

Salic Law Law made by the tribe called the Salian Franks. It came to be applied to a law that no woman may succeed to a throne and it is still used in this sense to day The Salie Law was in force in Hanover, but not in Great Britain, in 1837

Salicylic Acid Complex organic acid of wintergreen (Gaultheria procumbens) It may be prepared from salicin and synthetically by the action of carbon dloxide upon phenol It is a white crystalline substance having strong antisoptic properties. Its salts are used in medicine for febrile conditions, and as a food preservative

Salient Name for part of a line of trenches or other defensive works that

bulges out towards the enemy, and so requires a greater force to guard it. There were several salients in the Great War, the most famous being that in front of Ypres.

Saline Term used for preparations containing various saits having an aperient or other modicinal action upon the digestive organs. The principal salt of this character is sulphate of magnesia or Epsom salts. The waters of many mineral springs or spas are used as natural salines the salts varying with the character of the soring. varying with the character of the spring

Salisbury City, market and county town of Wiltshire It is 84 m from London on both the G.W. and S. Riys Here the Avon is joined by three small rivers, Nadder, Bourne and Wriye The in dustries include brewing, but the old manufactures of cutlery and woollen goods have dicappeared

The city is famous for its cathedral, built in the 13th century, and one of the finest Gothic buildings in existence—It is beautifully

placed with the close around it, and the spire bury was a great statesman and a successful is the loftiest in the country. The close is entered by its old gates and in it are several. He left five sons and two daughters. The colleges and some beautiful houses Other buildings are three old churches, St Thomas, St Martin and St Edmund St Nicholas Hospital, with its beautiful chapel, and the old George Inn are relics of the city's past, and there are several others including the hall of John Halle, once a guildhall The council house is more modern (1795), but the poultry cross dates from the 15th century There is a spacious market place, and the city is laid out in squares called chequers

Salisbury has a large agricultural trade, and is important as a military centre Sometimes called New Sarum, it was built to replace Old Sarum, 2 m away Pop (1931) 26,456

Salisbury City of Rhodesia, the capital of Southern Rhodesia, It is 1660 m by railway from Capetown, and is also reached from Beira, 370 m away The industries are chiefly connected with the produce of the country and the management of its affairs Pop 28.800

Salisbury Earl of English statesman Robert Cecil was born about 1565, the youngest son of the 1st Lord Burghley, and was educated at Cambridge He entered Parliament in 1584, was knighted in 1591, and, after a diplomatic mission to France, succeeded his father in 1588 as secretary and chief adviser to Queen Elizabeth Cecil now becam a secret correspondence with James VI began a secret correspondence with James VI of Scotland, assuring him of the English successlon, and when James came to the throne he was created a baron Created Earl of Salisbury in 1605, in 1608 he was made Lord Treasurer and became solely responsible for the conduct of the realm In foreign affairs he favoured peace, and at home endeavoured to check and counteract the extravagance of the court, by instituting the granting of an annual subsidy from Parlia-ment to the crown Though he did nothing to solve the great national problems, England was secure under his guidance He died May 24, 1612

Salisbury Marquess of English states-man Robert Arthur Talbot Gascoyne-Cecil was born at Hatfield House, Feb 3, 1830, being a younger son of the 2nd marquess He was educated at Eton and Christ Church, Oxford, and became a fellow of All Souls College In 1853, being known as Lord Robert Cecil, he was elected MP for Stamford, and in 1857 he married a daughter of Sir Edward Alderson He first became known by his continuous in The Statute of Stamford, and the Statute of Stamford of Statute Alderson He first became known by his writings in The Saturday Review and other periodicals, and by his attacks on the Liberal Government led by Earl Russell In 1865 his elder brother died and he became Viscount Cranborne and heur to the title, to which he

Cranborne and hear to the title, to which he succeeded in 1868

In 1866 Salisbury became Secretary for India under Disraell, but he resigned in 1867

He took the same office, however, in 1874, and in 1878 became Foreign Secretary, in which capacity he attended the Congress of Berlin In 1881 he succeeded Beaconsfield as leader of the Conservative Party, and in 1885 he was Prime Minister for six months In 1886 he entered upon his second term of office as Premier. which lasted until 1892, his third term was from 1895 until his retirement in July, 1902 He was also Foreign Secretary during these periods, except during the last years, 1900-02 He died Aug 22, 1903

Although not a popular figure, Lord Salis-

He left five sons and two daughters Tho sons were the 4th marquess, Viscount Cecil of Chelwood, Lord William Cecil, appointed Chelwood, Lord William Cecil, appointed Bishop of Exeter in 1916, Lord Edward Cecil, Financial Adviser to the Government of Egypt until his death in 1916, and Lord Hugh Cocil, member for Oxford University The daughters were the Countess of Selborne and Lady Gvendolen Ceell, who wrote her father's biography

Salisbury Plain District of Wilt-south-east of the county and is best reached from Sallsbury which lies to the south It is about 20 m across from north to south and about 20 m across from north to south and covers 200 sq m The Avon crosses it as does the S Rly It is a chalk plam, but on it are hills, the highest being 770 ft high The plain contains Stonehenge and Amesbury with their prehistoric monuments Most of it is used for military purposes, and both the army and the air force have comps thereon. The contract are air force have camps thereon. The centres are Bulford, Larkhall, Netheravon, Upavon, Tidworth and others

Secretion from the salivary glands Saliva secretion from the salivary glands poured into the mouth, the flow being stimulated by the nerves of taste, smell, and sight, and by the act of mastication Saliva is a slightly alkaline fluid containing mucin and the ferment, ptyalin, which acts upon starch, changing it into more digestible materials and malesales. Saliva substances, dextrin and maltose

Sallust Roman historian Gaius Sallustius Crispus was born in 86 B C, in the Sabine country, and was made tribune in 52 B c After service in Africa, he became Governor of Numidia, where he extorted great wealth by scandalous oppression. He then lived in magnificent retirement and wrote his histories, the most famous being his history of the Catiline conspiracy, and his study of Jugurtha, King of Numidia He died in 34 B C

Salmon Food fish (Salmo) of the family of 5 ft and a weight of 40 lb, the average being about half these Its pink fiesh is esteemed for its delicate flavour and nutritive value The adult fish ascends the rivers where, in the shallow head waters, the ova are denosited and tertilised. In the second way deposited and fertilised. In the second year the young fish journey to the sea, staying there two, three or more years till, in term mature, the majority migrate to the riverine spawning ground to breed. The fish is widely distributed in northern waters.

distributed in northern waters

Salmond Sir John Matland English
airman Born July 17, 1881,
in 1901 he entered the army He sorved in
South Africa, 1899-1902, and was one of the
first to Join the Roval Flying Corps He
became an instructor at the flying school and
served with the air force in the Great War.
In 1917 he was made Director General of
Military Aeronautics, and in 1918 head of the
air force on the western front In 1919 he
was knighted and made an air vice-marshal
Sir John went to Mesopotamia in 1922 as was knighted and made an air vice-marshal Sir John went to Mesopotamia in 1922 as head of the air force there From 1924-29 he was in command of the air defences of Great Britain, in 1929-30 he was a member of the Air Council, and in 1930 he was appointed Chief of the Air Staff He retired in 1932.

His elder brother, Sir William Geoffrey Hanson Salmond, had a similar career, passing from the army into the air force In 1927 he was made commander of the British air force

was made commander of the British air force

in India, and in 1932 he succeeded his brother as Chief of the Air Staff He died in 1933

Salome Daughter of Herodias, the wife of Herod Antipas, by a former husband Urged on by her mother, she asked Herod, after having charmed him with her dancing, for the head of John the Baptist, who was in prison John was accordingly beheaded and the head given to her Oscar. Wilde wrote in French a play on Salome which was first produced in London in 1905 A sister of Herod the Great was also named Salome She plotted against her sons and was murdered

Salon French word for a large room, especially a reception room It came to be used for a gathering held in such a room usually one of literary or political persons Many of these were held in Paris in the homes of famous women, such as Madamo Necker, Madame Roland and Madame de Stael In London, Holland House was such a salon

To day the Salon is the name given to the exhibition of pictures and other works of art held every year in Paris It corresponds to the Academy in London and is held in the

Palois de l'Industrie

Salonika City and scaport of Greece It is in Macedonia at the head of the Gulf of Salonika and is well served by railways The city has a good harbour and does a considerable trade and since 1925 part obes a considerable trade and since 1925 part of it has had a free fiscal zone. It is the Thessalonica to which S Paul wrote two of his epistles. Pop (1928) 236,900.

In Oct., 1916, a French and British army landed at Salonika and retained it as a base

during the rest of the war From it expeditions were organised to help Serbia In 1916 it was the centre of a movement of the Greeks against the policy of King Constantine, and a provisional government was set up here

Salop Alternative name for the county of Shropshire (qv) Salsify Bionnial plant (Tragopogon porriplant Found wild in European countries, it is cultivated for its edible root

Salt Common name for sodium chloride Salt occurs in nature as a mineral deposit, rock salt, also in brine springs and as an ingredient of sea water Rock salt occurs in large deposits in Germany Poland and Galicia, also in the Triassic beds of Cheshire and neighbouring counties Commercial salt is obtained either from rock salt or by evapora tion of natural brines or artificial brine formed by running water into mines to dissolve the salt. Salt is used as a preservative for meat fish, butter etc., and in the manufacture of caustic soda, soda ash and other sodium and chlorine compounds

Salt Sir Titus English manufacturer Born at Morley, Sept 20 1803, he was apprenticed to the woollen trade in Bradford In 1824 he started in business with his father as a wool stapler He realised the value of alpaca and was the first to use it in the manu facture of cloth. The business became very large and new mills were built near Bradford at a place which he named Saltaire In 1859
Salt was elected M P for Bradford, and in
1869 he was made a baronet He died Sopt 20 1876

Saltaire Town of Yorkshire (WR) It is 4 m from Bradford, on the River Aire and is served by the LMS Riy and a canal It owes its origin to Sir Titus Salt by droxides The oxy acids form with a base oxy-salts, thus nitric acid and potassium oxido

Saltash Borough, market t town It is on the Tamar, just opposite Devouport, on the GW RIS GW Rly It is a fishing and agricultural centre The Tamar is here crossed by a lofty railway bridge, the work of Isambard Brunel It is 2240 ft long Pop (1931) 3603

Saltburn Urban district and watering place of Yorkshire (N R ) It s 16 m from Middlesbrough and is reached by the L N E Rly There are excellent sands good bathing and golf links The town has brine baths Pop (1931) 3911

Saltcoats Burgh and seaside resort of the Firth of Clyde adjoining Ardrossan, and 30 m from Glasgow It has become a nomular watering pleas and has the west.

popular watering place and has the usual attractions for visitors At one time the col-lection of salt was the chief industry later it was shipbuilding Pop (1931) 10,173

Salter Sir James Arthur English adminis-trator Born in Oxford Mar 15, 1881 the son of an owner of pleasure steamers he was educated at the high school there He won a scholarship at Brasenose College, and in 1904 entered the civil service by open competition He took a post in the Admiralty, and during the war period was one of the chief officials who dealt with shipping problems In 1919 20 he was made head of the economic and financial section of the League of Nations, and he returned to that position in 1922, having in the interval been secretary to the Reparations Commission In 1922 he was knighted In 1930 he published a most valuable survey of the world's economic difficulties entitled Recovery In 1933 he was appointed Gladstone Professor of Political Theory and Institutions at Oxford

Saltire Term used in heraldry for an armorial charge or ordinary on a shield in the form of a St Andrew's cross

Salt Lake City Capital of the State home of the Mormons (q v) It contains many home of the Mormons (q r) It contains many churches of these "Latter Day Saints' and the Great Mormon Temple begun in 1853 Salt Lake City is one of the main centres in the West for agricultural produce sheep coal precious metals books and malt The Mormons, under Brigham Young, first settled here in 1847, but since the Civil War, the proportion of Mormons in the city has sensibly decreased Pon (1930) 140 267 Pop (1930) 140,267 decreased

Saliney Town and river port of Flint shire It is on the Dee 2 m from Chester on the GW Rly The industries include railway shops and coastal shipping for which there are wharves

Saltoun Two villages of Haddington-shire also called Salton Known as East and West Salton they are 16 m from Edinburgh Andrew Fletcher was laird of Salton and his estate was famed for its barley The title of Baron Saltoun has been held by the family of Fraser since 1445

Saltpetre Common name for nitro or potassium nitrate a white saline substance found in nature as an incrusta tion of the soil in India, or mixed with the porous soil in many parts of the world It is used in the manufacture of guspowder nitric acid fertilisers and for salting meat.

oxy salts, thus nitric acid and potassium oxido

form potassium nitrate A normal salt is one neo salvarsan, is less toxic and more convenient where all the available hydrogen in the acid is for uso replaced by the base, while in an acid salt only a part of the hydrogen is displaced Haloid salts are formed from the halogen acids such as hydrochloric acid

Saltwood Village of Kent. It is on the coast near Hythe and is famous for the ruins of its castle It has also an old church The castle was a residence of the Architecture of Control of Co

an old church The castle was a residence of the Archbishop of Canterbury, and from here the four knights started for Canterbury to murder Thomas à Becket

Saltwort Species of herb (Salsola kalı)

wort, it is common on the seashore in Great Britain It is a source of barilla, crude car bonate of soda, obtained by burning the plant, and used in soon and class-making.

and used in soap and glass-making

Salute Sign of respect or recognition paid by members of the naval, military and air forces to one another, and on ceremonial occasions on meeting one of superior rank the officer or man, if unarmed, raises the right hand smartly to the forehead The salute should be returned When stationary, the rifle When marching past the king, a member of the royal family, or an officer who is reviewing them (who is said to take the salute), at the command, the men turn the head towards him in salute

There are other forms of salute A boy scout raises his hand, but does not touch the fore-head. The Fascists raise the hand above the

head

Republic of Central America Salvador Republic of Central America Bounded on the N and E by Honduras, on the S by the Pacific Ocean, and on the W and N W by Guatemala, it is mountainous with many volcanoes, and is subject to earthquakes. The smallest and most incomplete the contral of the smallest and most incomplete the contral of the smallest and most incomplete the contral of the smallest and most incomplete the smalle Salvador populous of the Central American republics, it is intensively cultivated, and produces coffee, is intensively cultivated, and products contes, sugar, maize, indigo, rice, balsam, etc, these products forming the principal exports of minerals, principally there are small exports of minerals, principally Salvador is governed by a president, gold Salvador is governed by a president, elected for four years, a cabinet of four, and a legislative chamber of 42 members San Salvador is the capital, and La Union the principal seaport Area (est) 13,176 sq m, pop (1931, est) 1,437,157

Conquered in 1526 by Pedro de Alvarado, Salvador was a Spanish possession till 1821, when it joined the Central American federation It became independent in 1840

It became independent in 1840

Saving property from loss or destruction It is chiefly used in connection with loss caused by fire or ship-wreck In 1917, to deal with the vast amount of waste material resulting from the operations of war, an army salvage corps was formed Factories were opened at Dagenham, Newport and elsewhere for dealing with the material collected

To deal with material damaged by fire there exists the London Salvage Corps, in close association with the Metropolitan Fire Brigade Its headquarters are at 24 Watling Street,

London, EC4

Salvarsan Organic compound containing arsenic and known also as "606," or arsenobenzol Salvarsan was discovered by Dr Ehrlich in 1909 and found to have a destructive action upon the syphilise germ and protozoan parasites causing sleeping sickness and other diseases

Religious Salvation Army organisation It was founded in 1877 by William Booth for the revival of religion among the masses His book, Darlest England and the Way Out (1890), outlined the scheme of rescue work which soon became a prominent feature of the Army's activities The movement was organised on a military model and at first met with much orlicism and opposition. But in 1904 King criticism and opposition But in 1904 King Edward sent for General Booth to express his admiration for the work The Salvation Army is now active in 88 countries and uses 71 different languages. Its social services include maternity homes, children's homes, industral homes, prison gate homes, shelters and cheap food depots for the homeless, labour bureaux, farms, industrial schools and slum posts. The total amount raised in the British Isles during its "Self Denial Week" in 1934 was £148,236

Genus of the Lahatae, widely spread in temperate and warmer Salvia areas Many species are garden plants popular for their showy flowers, usually brilliant scarlet. They are easily grown and propagated in good soil

Salvini Tommaso Italian actor no was born in Milan, Jan. 1, 1829, and In 1857 ho soon became known as an actor In 1857 ho made his reputation as Othello For the nort 50 years he was one of the world's leading actors, distinguishing himself in Shakespearean

parts, as well as in pieces by the great Italian dramatists He died Dec 31, 1915

Salween River of Asia It arises in Tibet, but most of its course of 1800 m is in Burma It falls into the sea near Moulmein in the Gull of Martaban

Capital of the province of Salzburg Salzburg, Austria, lying in the beautiful valley of the River Salzach calculum valley of the River Salzach salzburg, formerly rich in salt deposits, contains an ancient citadel of the 9th century, a university and a cathedral of Renaissance style it was the birthplace of Mozart (1756) and musical festivals are sometimes held there, the last being in 1931. It has a broadcasting station (218 M., 07 kW.)

Samaria Ancient district of Palestine In the centre of the country, it was inhabited by a people who were partly of Jewish blood and therefore distinct from their neighbours Its capital was Samaria, ounded about 920 B c, but later destroyed by no Assyrians Herod the Great rebuilt it and alled it Sebaste

Samarkand City of Asiatic Russia It is the capital of the Uzbek republic An ancient place, it was conquered by Alexander the Great, became important during the Arab Samanid dynasty, and was later the capital of the Mongol prince, Tamer Later it came under the domination of China, then of Bokhara, and was taken by the Russians in 1868 Connected with the Caspian

Russians in 1865 Connected with the Caspian and Russia by railway, it is an important trading centre Pop (1933) 154,600

Sambar Variety of deer It lives in the forests of India and Covlon Its average height is 4½ ft. and the horns of the male are sometimes 3 ft long A distinguishing feature is the mane of long hair.

feature is the mane of long hair

River of France and Belgium. Sambre causing sleeping Dambre it rises in France and flows A modification, north-east, passing into Belgium where at

The Battle of the Sambre was the last engage ment of the Great War It began on Nov 1 and was carried out by three British armies In ten days they advanced 25 m, taking Valenciennes, Landrecles, Maubeuge and finally Valenciended, 2000 rejects, Maubeuge and shady Mons, and 19 000 prisoners. The battle ended with the armistice on Nov. 11 1918

Samoa Group of 14 islands in the Pacific, Samoa Group of NE of Fiji Discovered by Roggeveen, a Dutchman, in 1722 nine of the group formed a German possession, now administered under a mandate by New Zea land the others belong to the USA They are mountainous with an active volcano, are surrounded by coral reefs and are very fertile, producing copra and cocoa The natives are Polynesians who have embraced Christianity R. L. Stevenson is burled on Upolu Area—

R L Stevenson is buried on Upolu Area—USA portion 76 sq m, pop 10 055, NZ portion, 1133 sq m, pop (1932) 46,271

Samos 1 m from the coast of Asia Minor and belongs to Greece Its area is 180 m and it is mountainous, but has fertile valleys, where fruit and vines are grown Vathy, on the north coast, is the capital Pop 70 500

In classical times Samos

In classical times Samos was a notable centre of culture, its sculptors being famous Its capital was a town of the same name

Tea urn used in Russia, and Samovar generally made of copper The water is heated by burning charcoal contained in an inner tube

contained in an inner tube

Samoyede Breed of dog Primarily a sledge dog, it is much is favour as house dog and pet. In appearance the Samoyede is like a large Pomeranian with a long thick silky coat. The true sledge dog is white, black or black and white but the type bred for show in Great Britain is pure white They should be between 18 and 22 in in height and weigh between 40 and 55 lb

Samphire Perennial herb (Crithmum maritimum) of the natural order Umbelliferae It is found in many parts order Constituents it is found in many parts of Europe including Great Britain, usually on rocks near the sea. It has a stout stem and leaves which are blue green in shade and bears which flowers. The leaves of the samphire, which have a salty flavour, are gathered in some places and made into a pickle.

Samson Biblical character The Book of Judges (chaps xiii to xvi) ropresents him as an Israelltish hero of vast strength, who, by a number of single handed exploits, inflicts great injury on the Philistines His hair, left unshorn from birth as the token of his consecration to God as a Nazartte, is, according to the narrative, the source of his strength—a secret disclosed to his enemies by his lover, Delilah

Samuel Prophet of the Israelites He was born at Ramah, his mother being Hannah, who vowed him to the service of God As a child he became an attendant to Eli, the high priest, and later the judge, or ruler of the Israelites

The Books of Samuel are two historical books of the Old Testament. The period of history covered extends roughly over a hundred vears, during which Israel emerged from the state of anarchy described in the Book of Judges and became a nation The establishment of the monarchy was an important

Namur it joins the Meuse It is navigable by instrument in the consolidation of the kingdom barges, and canals connect it with the Scheldt Hence the control figures in these books are and other rivers Its length is 112 m Samuel, who took a prominent part in the Honce the contral figures in these books are Samuel, who took a prominent part in the foundation of the kingdom, and Saul and

David, the two earliest kings

Samuel Sir Horbert Louis English politician Born in Liverpool Nov 6 1870, a son of E L Samuel, he adopted a political career He was elected to Parlia ment in 1902 and in 1905 joined the Liberal Ministry as Under Secretary for Home Affairs In 1909 he entered the Cabinet as Chancellor of the Duchy of Lancaster from 1910 14 he was Postmaster-General in 1914 15 President of the Local Government Board in 1915-16 again Chancellor of the Duchy and for a short time Home Secretary

In 1920 Samuel was knighted and went to Palestine as High Commissioner On his return in 1925 he was Chairman of the Royal Commission on the Coal Industry, its report being known as the Samuel Report In 1929 being known as the Samuel Report In 1929 Sir Herbert was elected Liberal MP for the Darwen division and in 1931 he took a leading part in the formation of the National Government In this he became Home Secretary resigning in Sept 1932 In 1934 he was again in Palestine His writings include Liberalism Its Principles and Proposals Practical Ethics (1935)

San River of Poland It rises in the Carpathians and flows mainly north-west until it joins the Vistula near Sandomir Przemysl is on its bank and its length is 260 m

There was a good deal of fighting along the San during the earlier part of the Great War Two Battles of the San are recognised was fought between the Austrians and the Russians It began on Oct. 13 1914 and insted until Nov 6, the Russians being victorious. In the second battle the Germans came to the assistance of the Austrians and the Russians were defeated and driven back. The fighting began about May 14, 1915, and lasted two weeks

Sanatorium

Building sot aside, in a school or elsewhere for sick persons

It is also used for buildings erected for the treatment of consumption, such as the King Edward VII Sanatorium at Mildhurst. In Great Britain treatment in sanatoria was one of the benefits given to persons insured under the National Health persons insured under the National Health Scheme from 1911 to 1921 when it was withdrawn It is still given, however, in Northern Ireland

Sancroft William English prelate Born at Fressingfield, Suffolk Jan 30, 1617, he was caucated at Emmanuel College Cambridge He became a Fellow of his college but in 1651 was deprived of the position owing to his opinions After the restoration he was made Chaplain to the King In 1678 he was appointed Archbishop of Canterbury and in 1688 he was the leader of the seven bishops who refused to read the Declaration of Indulgence and were imprisoned and tried for treason He declined to recognise William III as the rightful king and in 1690 his office was taken from him He died

at Fressingfield, Nov 24, 1693
Sanction law It has been much used
It has been much used since the Great War for a penalty suggested in case an agreement is violated Such were the sanctions imposed by the freaty of Versailles

in 1919

Sanctuary Holy place, particularly one where fugitives and criminals

could take refuge without fear of arrest. The Jews had three centres of refuge for this purpose In the Christian ora churches, especially cathedrals, were sanctuaries Westminster Abbey was a noted sanctuary, as were the abbey at Holyrood and the cathedral of Durbon. The word to also used for the part at Durham The word is also used for the part of a cathedral where the sacred vessels are In the Jewish temple the Holy of Holies kept was the sanctuary

Sanctus Hymn said or sung in the Roman Catholic Church during the prayer of consecration at the celebration of the mass It also finds a place in the com-nunion service in the Prayer Book of the Church of England and in other liturgies The words, adapted from passages in the Bible are "Holy, Holy, Holy, Glory be to Thee, O Lord most high"

Sand Natural fine grained material resulting from the disintegration of granite and other highly siliceous rocks. While essentially of quartz grains, other minerals according to the nature of the parent rock may be present with various impurities. White quartz sands from granites are known as silver or glass sands, but more commonly sands are valley brown or red due to the sands are yellow, brown or red, due to the presence of iron. Sands are used in making mortar and cements, bricks, glass and pottery, also as an abrasive and filtering material

Sand South Africa River of the Orange Free State, Vet, it gave its name to a convention by which, in 1852, the British Government recognised the independence of the settlers across the Vaal, the present Transvaal

Pen-name of Amandine George Sand Sand Lucile Aurore Dudevant, French novelist Born July 1, 1804, in Paris, she read widely as a child, married unhapply and parted from her husband in 1831, becoming a journalist in Paris Her first novel, Indiana (1832), was an immediate success and won her the friendship of the great critic Sainte-Beuve among others. She formed a liaison with the poet, Alfred de Musset, and later with Chopin (qv). The latter half of her life was spent mostly in the country at Nohant. She died June 8, 1876. Her earlier books, including Lelia and Jacques, show a spirit of revolt, but her best work is in the later pastoral novels such as Jeanne and La Mare au Drable. from her husband in 1831, becoming a journal-

Sandal Village of Yorkshire (WR) It is 3 m from Wakefield, on the LNE Rly The eastle, now in rulns, was a stronghold of the Yorkists during the Wars of the Roses Near it the Battle of Wakefield was fought in 1460 Pop 2900

Sandalwood Fragrant wood from a small evergreen tree, (Santalum album), growing in India and the East Indies Sandalwood is used for carving and the respines of the property and the respines of the sand th and turnery, and the raspings are used in incense or distilled for an aromatic oil Australian sandalwood from Fusama spicatus is an inferior substitute

Sandbach Urban district of Cheshire It is 4 m. from Crewe, on the LMS Rly There are some manufactures There are two crosses dating from the 7th century in the market place Pop (1931) 6411

Sanderling Small bird, Cahdris the S Rly The chief meeting is held in July, arenaria, allied to the plover, which it resembles It is a winter visitor to the shores of seas and lakes in Great Britain and other parts of Europe About The common sandpiper (Tolanus hypoleucus),

8 in in length, its plumage is brown and grey above and white below

Sandgate Urban district and seaside resort of Kent. It is 2 m from Folkestone, on the S Rly The chief building is the eastle, erected in the 16th century to defend the coast it is now a museum Pop (1931) 2596

Sand Grouse Small game bird It grouse but is related to the pigeon which it resembles in appearance The birds have beautiful plumage, long and pointed wings and

resembles in appearance The birds have beautiful plumage, long and pointed wings and very short legs and toes They are found in Asia and Africa and sometimes in Europe One species, Pallas's, has been seen in Great Britain Like pigeons, they move in droves and feed on insects and vegetables

Sand Hopper Small, shrimp-like in large numbers on the seashore between tide marks. It is of a pale yellowish colour and has a hopping movement produced by flexing the tail under the body. They act as scavengers, feeding upon decaying animal matter. feeding upon decaying animal matter

Sandhurst Village of Berkshire It is 33 m from London and 4 from Wokingham, its station on the S Rly Here is the Royal Military Collego, erected to the Royal Military Collego, erected to the Royal Military Collego, erected to the Royal Military Royal R in 1812, and usually known as Sandhurst, where officers for the cavalry and infantry receive their training. It has accommodation for 700 cadets Officers for the Royal Army Service Corps and for the Indian army are also trained at Sandhurst, but in 1932 arrangements were made to open a college of this kind Another Sandhurst is a village in in India Kent.

Sand Lizard Small lizard (Lacerta frequenting sandy districts The sexes differ frequenting sandy districts The sexes differ in colour, the male being a bright green while the female is brownish and grey The female is larger than the male, which is about seven inches in length

San Domingo Capital and seaport of the Dominican Republic It stands on the south coast of the island, at the mouth of the River Ozama The cathedral dating from the 16th century There is a  $\mathbf{The}$ town was founded by the Spaniards in 1496 and the fort erected by them still stands. The city has a trade in sugar and coffee, but there is no harbour The remains of Columbus were in the cathedral here from 1536 until 1795. Pop 30,957

Sandow Eugen German athlete Born at Königsberg, April 2, 1867, he was educated at Göttingen and made a name as a wrestler Possessed of enormous strength, he engaged in public wrestling contests, and performed feats of weight lifting which won for him the championship of the world Later he devoted himself to teaching physical culture He wrote Strength and How to Obtain It Sandow died Oct 14, 1925

Sandown Watering place and urban district of the Isle of Wight. It is 6 m. from Ryde, on the S Rly Pop. (1931) 6167

Sandown Park Raccourse in Surrey It is 15 m from London, its station being at Esher, on

equalling the skylark in size, is very common in Britain and departs in winter for India and Australia Among other sandpipers may be mentioned the red sandpiper, greenshank and the purple sandpiper, a visitant from Green land America is inhabited by so called spotted sandpipers

Sandringham Estate in Norfolk, the property of the King It is 6 m from King's Lynn and 2 m from Wolferton, on the LNE Rly The estate was bought by the Prince of Wales, afterwards Edward VII, and the house was built in 1869 71 It stands in a park of 200 acres On the estate is a smaller royal residence, York Cottage

Sandstone Sedimentary rock, consisting of sand grains cemented together A pure sandstone is formed of quartz grains with silica as the cementing material, but many sandstones contain fragments of felspar, mica and other minerals with a calcarcous, clayer or fer ruginous cement Sandstones are used as building and paving material, also as road metal

Sandstorm Hot whirlwind which in Africa and Arabia carrying with it great quantities of sand The sudden heating of the lower atmospheric layers causes ascending eddies of hot air which raise the sand in whirling clouds The dreaded simoom of the Sahara is of this character

Sandwich Borough, market town and holiday resort of Kent. It is 5 m south west of Ramsgate and 87 from London, by the S Rly It stands on the Stour and was one of the chief of the Cinque Ports, but the sea has receded, and the town is now two miles inland There are many interesting old buildings, including the Guild hall, and two hospitals dating from the 13th and 14th centuries Of the old fortifications two gates are left Pop (1931) 3287

Sandwich Earl of English title borne Edward Montagu (1625 72) born July 27 1625, is chiefly known as a seaman, first under the Commonwealth and then under Charles II In 1660 he was made Earl of Sandwich he fought in several battles against the Dutch and went as ambassador to Spain He was killed in a sea fight in Southwold Bay, May 28, 1672 The title in 1729 came to a descendant, John Montagu, who became the 4th earl A prominent politician, twice First Lord of the Admiralty and Secretary of State, he took part in the prosecution of John Wilkes, and died April 30 1792 From him the present earl is descended The carl's eldest son is called Viscount Hinchingbrooke and his estates are in Huntingdonshire

Sandwort Genus (Arenaria) of Alpino phyllaccae The leaves grow in pairs on slender jointed stems and the flowers are small and dainty A montana and A balcarica are popular for rock gardens the latter is a creeping variety with delicate leaves and minute white blossoms.

Sandy Urban district of Bedfordshire It is on the Ivel, 7 m from Bedford on the L N E Rly It is an agricul tural centre In the neighbourhood are Roman remains. Pop (1931) 3140

Sandy Hook Peninsula of New Jersey forms one side of New York Bay On it is a fort and a lighthouse, familiar to those ap proaching New York Around it is the course for the America Cup

San Francisco California, USA I stands on the Bay of San Francisco, one of the world's finest natural harbours, entered from the Pacific by a channel the Golden Gate A suspension bridge over the Golden Gate A suspension bridge over the Golden Gate, to be completed in 1937, is one of the world's great feats of engineering The city, which is built on a hilly site and has a fine climate, is the chief scaport on the Pacific coast of the USA and a great industrial centre. The chief manufactures include coffee meat-packing, automobiles, clothing, machinery, canning and furniture, and the principal exports, mineral oil, barloy, preserved fruits, cotton, tobacco etc. The harbour has over 15 m of docks. Important buildings are the domed city hall the public library and the State building and the city has 46 parks and fine thoroughfares. A cosmo politan city, it has a large Chinese quarter 120 (1930) 634 394

Parks and line thoroughlares A cosmo politan city, it has a large Chinese quarter Pop (1930) 634 394

Founded in 1776 by Spanlards, San Francisco was seized by the USA in 1848, from which year the gold rush brought a great increase of population The city has suffered greatly from fires especially in 1906, following a disastrous earthquake

Sanger George English showman A had become the owner of a circus, he was born at Newbury, Dec 23, 1827, and about 1850 took control of his fether's business He called himself Lord George Sanger and made the circus very profitable In 1871 he bought Agtilev's circus and for some years leased the Agricultural Hall, Islington He also had circuses in Liverpool Glasgow Birmingham Dundee, Bristol and other cities In 1905 he sold the undertaking, and on Nov 28, 1911, he was shot by a former employee

Sanhedrin council of the Jews It had the was powerful in the time of Jesus Christ. Consisting of 71 members, persons of importance, with the high priest as president, it was a court of justice for all Jews and for some time had over them power of life and death. It disappeared at the time of the destruction of Jerusalem

Sanitary Authority In English ment the body that is responsible for looking after public health. It may be a borough, urban district or rural district council In London the borough councils are the sanitary authorities. In seaports a special body—the port sanitary authority—deals with shipping Sanitation Department of public health.

Sanitation Department of public health Sanitation It comprises the arrange ments for disposal of sowage and refuse, water supply, etc. The relative laws are administered by the local authorities. These maintain sanitary inspectors to see that building by laws as regards internal sanitation, drains, etc, are observed, and that no nulsance is allowed to arise in respect of the disposal of filth or domestic refuse. A sewer drainage system is tested by the sanitary authority before completion, and thereafter no alteration is allowed to be made without the authority's sanction Defective drains may be condemned, whereupon the owner of the property must provide new ones

island off the west coast and is linked with the main island by bridges and a causeway It was founded by the Spaniards in 1511 and its old eastle and some of its fortifications still stand There is a good harbour and shipping is one of the principal industries The city has been modernised since it became an American possession in 1898 Pop (1930) 114,715

Sankey Viscount English lawver and politician John Sankoy was born Oct 26, 1866, and educated at Lancing and Jesus College, Oxford He became a barrister in 1892 and in 1909 a K C and was prominent as an ecclesiastical lawyer In 1914 he was made a judge and in 1919 he was selected to preside over the Royal Commission on the Coal Mining Industry In 1928 he was made a Lord Justice of Appeal and in 1929 he toland the Lebeur Minister as Lord Character joined the Labour Ministry as Lord Chancellor, an office he retained until June, 1935, when Mr Baldwin formed a new cabinet He was made a baron in 1929, and a viscount in 1932 Lord Sankey took a leading part in the conferences on India in 1930 and 1931

Sankey Ira David American singer Born in Pennsylvania, Aug 28, 1840, he became an evangelist In 1870 he joined D L Moody in his evangelistic work bivs David and the two met with extraordinary success in the United States and Great Britain They travelled about holding revival services, the threeled about holding revival services, the share of Sankey, who had a fine voice, being to sing solo hymns. He was responsible for the popular volume Sacred Songs and Solos In 1903 he became blind, and he died Aug 14, 1908

San Marino Republic of Europe It is in the Apennines 12 m from Rimini and is entirely surrounded by Italian territory. Its area is 38 sq m. The capital is the little town of the same name which stands on a hill, 2656 ft high The republic is governed by an elected council of 60 members, two of whom act as regents for six months at

two of whom act as regents for six months at a time San Marino has been independent since 1631 Pop (1932) 13,948

Sanguhar Burgh of Dumfriesshire It is situated on the Nith, 26 m from Dumfries, on the L.M.S. Rly There are ruins of a castle. The town has cattle and sheep fairs and its interests are agricultural Pop (1931) 1753

San Remo City and health resort of m from Nice The old city stands on a hill a little away from the sea Here, in 1920, the Allies held one of their conferences Pop 24,740

San Salvador City and capital of the Republic of Salvador It is connected by railway with the coast, which is 25 m away There is a considerable trade and some manufactures The city is named from the extinct volcano of San Salvador near the town Pop (1930) 95,692

Sansculottes Insulting nickname given by the French aristocrats, at the beginning of the French Revolution, to the proletarian members of the Revolutionary army, who were long trousers, instead of the fashlonable knee-breeches. At first very popular, the name fell into disrepute after the atrocities

San Sebastian Town, watering place

San Juan Capital and scaport of Puerto, It is on the Bay of Biscay, only a few m. from the border of France. There is a fine bay and island off the west coast and is linked with the casino. Its popularity dates from 1886 when the Queen of Spain made it her residence and until 1931 the royal family retained here their palace called Miramar

At one time San Sebastian was a strong fortress, but its walls have been pulled down In 1813 it was stormed by the British under Wellington, who was advancing into Spain. Wellington, who was advancing into Spain. Its castle was then taken and destroyed The town has some manufactures and there is a little shipping. It has a broadcasting station (453 2 M, 0 6 kW) Pop (1931) 80,119

Sanskrit "perfected," and kriic, "perfected," the compound signifying to perfect," indicating the superior track ganskrit the ancient Indian learners.

signifying to perfect, indicating the superiority of Sanskrit, the ancient Indian language, over Prakrit, the dielect tongue Sanskrit represents the Eastern branch of the Aryan tongues and dates from about 1500 B c It is the elder sister of Persian, Greek, Latin, the elder sister of Persian, Greek, Latin, Teutonic, Slavonic and Celtic languages Its Iterature falls into two periods, vedic and classical, to the latter period, belong the two great epic poems, Mahabharata (by Vyasa), and the Ramayana (poem of Rama, by Valmiki), together with romances dramas, philosophical, scientific and technical literature

Sansovino Andrea Italian artist Born in 1460, he studied art in Florence and became known as a sculptor and an architect He assisted in decorating the baptistery at Florence and was responsible for the Sforza monument in the church of S Maria del Popolo in Rome He died Nov 27, 1570

San Stelano Town of Turkey It is on the Sea of Marmara, m to the west of Istanbul The Cape of San Stefano is a landmark By a treaty between Russia and Turkey, signed here on Mar 3, 1878, Bulgaria, Rumania, Serbia and Montenegro became independent of Turkey, and Russia obtained several concessions

Santa Barbara City of California.
100 m from Los Angeles The Southern
Pacific Rly serves the city It is a picturesque
place of Spanish origin Pop (1930) 33,613

place of Spinish origin Pop (1930) 33,613

Santa Cruz Capital and scaport of the on the north-east coast of Tenerifie and has a good harbour protected by a mole. The city is pleasantly situated and has a delightful elimate. Much produce is exported and it is an air station. Pop (1931) 63,052

Apother Santa Cruz is the capital of Polyter.

Another Santa Cruz is the capital of Palma, a smaller island of the Canary group It also is a seaport

Is a seaport

Santa Cruz Island of the West Indies
Antilles, 60 m from Porto Rico, and belongs
to the United States Its area is 84 sq m
and it is 21 m in length The chief towns are
Christiansted, the capital, and Fredericksted.
The chief product is sugar Santa Cruz was a
Spanish possession and later a French one
In 1733 it was sold to Denmark by its owners,
the French West India Company, and in 1916
Denmark sold it to the United States In
1801 and from 1807-14 it was occupied by the
British Pop 15,500

Santa Cruz Group of islands in the

Santa Cruz Group of islands in the 100 m. from the New Hebrides The largest is Ntendi or Santa Cruz A British possession, the group is part of the Solomon Islands. See SOLOMON ISLANDS.

Santander City, scaport and watering on the opening of the Bay of Biscay, 315 m by rail from Madrid There is a cathedral detail from the 12th court the city of th dating from the 13th century in the old town, where are other buildings of interest, notably the keep of the castle Shipping is an important industry, for which there is a large and excellent harbour Iron ore and fish are the principal exports Pop (1931) 26,381

Santarem City and river port of Portugal It stands on the Tagus, 51 m from Lisbon. Its interest is mainly historical, although it does a little trade in wine At one time it was a Roman settlement and later was a residence of the kings There are ruins of a castle and some remains of the town walls Pop 10,000

Santiago City of Spain in full Santiago north-west of the country, only 33 m from Corunna on the coast. In the Romanesque Cathedral is the shrine of S James visited by pilgrims The cathedral cloisters are by pilgrims The cathedral cloisters are especially fine There is a university founded in 1504, which has a large and valuable library Under the monarchy, the city, which has lost much of its glory, was the headquarters of the Knights of Santiago It had a pantheon which was burned down in 1921 Pop 26,000

Santiago City and capital of Chile It is finely situated on a plain, 1860 ft. above sea level, below the Andes, on the river Mapocho An up to date city it has some fine buildings including the cathedral (robuilt 1748) in the handsome Plaza de la Independencia the Capitol and the University of Chile founded in 1842 The principal industries include brewerles flour and knitting mills foundries machine shops and soap and clothing factories It is connected with

Volparaiso (q v) by rail

Founded in 1541 by Pedro de Valdivia the conqueror of Chile, the city has suffered from floods, carthquakes and political upheavals, but has never been actually besieged. An international conference of American states was held here in 1923 Pop (1932) 702,431

Santiago City and scaport of Cuba. It same name, 540 m. by rall from Havana. There is a large harbour and a good deal of shipping. Other industries are connected with the minerals found in the neighbourhood and with tobacco From 1515 to 1556 Santiago was the capital of Cuba It was taken by the Americans in July, 1898 Pop (1930) 44,975

Santo Domingo (Dominican public of the West Indies
western part of the Island of Santo Domingo and covers 19,332 sq m Santo Domingo is the capital and Puerto Plata is the chief port The republic produces sugar tobacco coffee, etc.

SAPPHO

Santa Fé City and capital of New on the Santa Fé River and is served by railway and the state of the state state said to be the oldest Christian and ministry responsible to a legislature of two houses. The republic was founded in Marcher Santa Fé is a city of Argentina It is 95 m from Rosario and near the Parana river It has some manufactures and a provincial university and is the capital of the province of Santa Fé Pop (1930) 59,574 por the appendix of the Ray of Riscay 315 m and 230 m WS W from Rio de Janeiro (q v) and is low lying, but has a good harbour with

and is low lying, but has a good harbour with accommodation for 50 vessels. The world's greatest coffee port it also exports sugar, rice rum, hides and manufactured goods Bananas are grown nearby Pop (1930) 160,000

Saone River of France It rises in the young south until it joins the Rhone at Lyons Canals connect it with the Rhine on the one. side and the Loire on the other Its length is 282 m

Sao Paulo City of Brazil It stands on the River Tieté 49 m by rall from Santos and J08 m from Rio do Janeiro The city is well built and progressive, with excellent public buildings, schools, hos pitals and a fine theatre. It manufactures textiles, clothing, food products, furniture, etc. Electric power is supplied for industry from the falls of the Tieté. On the Plain of Ypiranga, near the city, Brazilian independence was declared, Sept. 7, 1822 Pop (1930) 879,788

Sap The fluid contents of the plant cells and tissues, the sap contains a number of substances in solution or suspension in water which is derived from the soil by root absorption. Nitrates and other inorganic salts, amides, sugars, pigments, and organic acids may be present. The sap diffuses from cell to cell, thus carrying food materials to the tissues

Saponification Chemical term decomposition of fats which are glycerolesters of the fatty acids (stearle palmitic butyric, etc.), by the action of alkalis resulting in the formation of soap. It is now usually referred to as hydrolysis, which covers the decomposition of other esters involving the addition of the elements of water

Sapper Name given unofficially to a private in the Royal Engineers Originally a sapper was a soldier employed in digging saps, or ditches below the surface, in order to facilitate the attack on a fortress From 1813 to 1856 the British Army had its corps of sappers and miners, and the Indian army still has a similar force

Sapphire Precious stone The sapphire is a blue variety of corundum the colour varying from different shades of blue to illae, the most valuable stones being of a bright complower blue. It is found in of a bright cornflower blue. It is found in Siam, Burma the river gravels of Ceylon and in granites in Kashmir

Sappho Greek poetess. She lived in BC There are several traditions about her one being that she was banished and passed her last days in Sicily She was regarded as one of the great poets of antiquity, her extant work, although very scanty, bears out this high estimate It includes two poems and several as well as much useful timber Cattle are reared fragments one poem being an ode to Aphro

dite, they are sensuous, but possess exquisite

felicity of language
Saracen Word used at one time for an
Arab and later for a Mohammedan It referred especially to a Mohammedan of high birth who fought against the Crusaders

Saragossa City of Spain It is on the Ebro, 212 m. N E of Madrid There are two cathedrals, one old and the other new, and a university, also a citadel built by the Moors, and some ancient houses The bridge across the river is notable Before the union of Spain, Sara gossa was the capital of the kingdom of Aragon It has now become a prosperous manufacturing centre It was unsuccessfully besieged by the French, 1808 9 Pop (1931)

Sarasate Pablo Martin Meliton Span-peluna, March 10, 1844, he became one of the great masters of the violin, and played in many parts of the world In 1861 he first played in London He died at Biarritz, Sept 21, 1908

Sarawak State of Borneo It is in the NW of the island and covers 50,000 sq m, with a coastline of about 500 m on the China Sea There are several givers, one being called the Sarawak In the carvers, one being called the Sarawak In the E are mountains rising to 10,000 ft. The soil is fertile and coffee, rubber, pepper, sago and other tropical plants flourish. Gold and coal are mined, and the state possesses valuable oil fields and great reserves of timber Kuching is the capital. The state is ruled to the state is ru

The state is ruled by a rajah assisted by two councils. The people are chiefly Malays, Dyaks and Chinese. Sir James Brooke, an Englishman, became rajah in 1842, and the office has since been held by his descendants Sir James obtained the territory from the Sultan of Brunei, and his land came under British protection in 1888. Pop 475,000

Sarcoma Medical name for a malignant form of tumour developed in connective tissue and differing from carcinomata (cancer) in having more fibrous tissue Sarcomata may occur in the skin and underlying tissues, the breast, periosteum or wherever there is connective tissue. As the disease spreads into neighbouring parts, it may cause death by pressure upon some vital organ

Sarcophagus Stone coffin used especially in ancient Egypt as a receptacle for the mummified body. A sarcophagus was made of granite, book A sarcophagus was made of grame, basalt, quartzite, limestone or alabaster, and in many cases bears inscriptions and tableaux At first stone sarcophagi were reserved for kings, but later came into more general use

Sard Variety of chalcedony of a brownish-red colour and somewhat horny lustre, thus differing from carnelian which has a waxy lustre It is cut and engraved for use in signet rings

Sardanapalus King of Assyria He reigned probably about 900 B C, and may have been Ashurbanipal who reigned about 650 B C

Sardine Small fish preserved in oil In England the word is used only for a pilchard when it is preserved and These sardines are a popular article At one time the word referred to a tinned kind of herring caught off the coast of Sardinia, hence the name.

A species of heiring, found off the E coast of the United States is called the American sardine

Sardinia Island in the Mediterranean Sea An Italian possession, it lles 71 m S of Corsica and has an area of 9,299 sq m The island is mountainous and the climate variable Agriculture is the principal occupation and stock is raised Of minerals, lead zinc and salt are the most important There is a large tunny fishery. There are universities at Cagliari, the capital. and Sassari La Maddalena, Terranova, Cag-llari and Porto Torres have good natural harbours Pop (1931) 973 125 Sardinia has a long and interesting history

Occupied by Carthage about 500 BC, it was ceded to Rome in 238 BC. In the 8th century of our era it was invaded by the Saracens, was taken by Pisa in 1050 and by the King of Aragon in 1326 From 1478 it was governed as a Spanish vice-rovalty until 1708, when it became an Austrian possession. In 1720 it became an Austrian possession. In 1720 it passed to the dukes of Savoy who took the title of king of the island. In 1848 the island was united politically with Piedmont (qv) and in 1861 Victor Emmanuel II. (qv) became king of united Italy

Sardis Capital of the ancient kingdom NE of Smyrna in Asia Minor, and is repre-sented by a village called Sart Having been sented by a village called Sart Having been the capital of Lvdia, the city was taken by the Persians in 546 nc and by Alexander the Great in 334 nc Under the Greeks it was a flourishing city In Roman times it had a bishop and was one of the seven churches mentioned in the Book of the Revelation It was destroyed by Timur in the 15th century

Sardonyx Variety of red banded on x, consisting of alternate layers of carnelian or sard and chalcedony, the sardonyx is used as a gem stone for rings, etc

Sardou Victorien French dramatist Born in Paris, Sept 6, 1831, he married the actress Brécourt, and through her met Déjazet, for whom he wrote Monsicur Garat, and Les Prés Saint-Geriais (1860) He wrote several plays including Les Intimes and Les Vieux Garçons, and later, in 1883, began to write for Sara Bernhardt, with I'édora, followed by La Tosca and with Moreau, Madame Sans Gênc He wrote Robespierre (1899), and Danie (1903), for Irving He had a good sense of the theatre, and his dialogue was full of movement, quick, easy and witty He died Nov 8, 1908

Sargasso Sea Section of the Atlantic Sargasso Sea Section of the Atlantic Sermuda and extends eastwards. It is distinguished by the masses of brown seaweed that float therein, especially the weed called Sardon't increat, especially the weed cancel sur-passion bacciferum washed from the coast in great masses. The Sargasso Soa was discovered by Columbus, and for long had an evil reputation with sailors who feared destruction if they sailed their ships among its masses of seaweed

Sailed their ships among its masses of seawceut Sargent John Singer English artist He was born in Florence in 1856, his parents being Americans, and studied art there and in Paris His work, exhibited in Paris and London, soon made him known In early life he made his home in England, and exchanged his American nationality for a British one In 1894 he was elected A R.A. and in 1897 R A He died April 14, 1925

Sargent painted landscapes, but his fame rests more upon his portraits, notably his

SASSOON 1102

paintings of Ellen Terry as Lady Macbeth, and of the members of the Werthelmer family The Tate Gallery contains these and other examples of his work including the beautiful "Carnation, Lily, Lily, Rose"

The name is Sargon King of Assyria The name is Sargon properly spelt Sarrukinu He made himself king in 722 B o, and reigned for 17 years A great conqueror, he brought many cities under his power He died in 705 and was succeeded by his son Sennacherib

Another Sargon was a king of Akkad He lived about 3000 BC, and founded a powerful

dynasty

Sari Bair Hill in Gallipoli It is nearly brominence in April, 1915, when it was at tacked by Australian and New Zealand troops who had landed near Gaba Tepe They gained some successes, but a sustained advance proved impossible

Sark one of the Channel Islands It is of two parts, divided by a causeway called the Coupée It is 3 m long and covers about the Coupee at 18 3 m long and covers about 2 aq m. The only harbour is Creux on the L coast. The island is famed for its caves and its cliffs which are unrivalled for their magnificence. It is governed from Guerney, and the inhabitants are engaged in fishing and farming Pop 900

Sarnia City and river port of Ontarlo It is on the St Clair River 170 m from Toronto, on the CN Rly Sarnia Sarnia Lakes and the St. Lawrence, and its industries include lumber mills Pop (1931) 18 191

Sarpi Fra Paolo Italian writer Born in Venico in 1552, he joined an order of friars and passed his early years in studying science in Venice, and soon made a reputation by his researches Defending the cause of Venice against the pope in 1606, he was excommunicated, and more than once was almost murdered He died Jan 15, 1623 Sarpi, although a Roman Catholic, denounced sarpi, atthough a Noman Catholic, denotineed the doctrine of papal infallibility. His chief work has been translated into English as The History of the Council of Trent

April 6 1856, he entered the army as an officer in 1877, and later became an officer in the Foreign Legion He was given common of an infantry carry Sarrail Maurice Paul Emmanuel French soldier Born at Carcassonne of an infantry school in 1901, and in 1905 of a regiment In 1914, when the Great War began he was in command of an army corns Soon he was transferred to the head of the third army, and in Aug, 1915, was sent to Salonika as commander of the forces In 1923 25 he was High Commissioner in Syria

Sarsaparilla Dried rhizome and roots of various species of Smilaz, especially S officinalis climbing plants native to C America Sarsaparilla is credited with diuretic and alterative pro perties and is used in the form of an extract and decoction It contains a volatile oil, a bitter principle known as parillin, and starch Sarthe River of France It rises in the Nof the country and flows mainly S until it joins the Mayenne, the two forming the Maine, a tributary of the Loire It is 175 m long and on it are Alencon and Le Mans The department of Sarthe covers 2400 sq m in the NW of the country The capital is Le Mans

Sarum Latin name for Salisbury Old modern city It was vacated in the 13th century when the present city was built, but until 1832 it sent two members to Parlia The site is now national property and has been excavated

The Use of Sarum is a service book drawn up for the use of the diocese of Salisbury in the 11th century Much of it was incorporated in the Prayer Book of the Church of England

Saskatchewan Province of Canada toba on the E and Alberta on the W, and stretches from the NW Territories to the border of the United States. It covers 251,700 Regina is the capital and the largest of the city of there are Saskatoon, Moose Jaw and Prince Albert lt is the chief wheat growing province of Canada and its live stock indus tries are of great importance Other branches of agriculture flourish, and there are some manufactures The province is governed by an executive council of 10 members under a

en executive council of 10 members under a premier, responsible to an elected legislature of 63 members It was made a province in 1906 Pop (1931) 826 738

Saskatoon City of Saskatchewan It with the Saskatchewan It will be said the manufacture of agricultural machinery, bricks and clothing and the place is the centro for a large agricultural district It is served by both transcontinental railways the CPR and CNR
There is a university and an agricultural There is a university and an agricultural college Pop (1931) 43 291

Sassafras Deciduous tree (S officinale) of the order Laurinaceae The wood is soft and yellow and the racemes of yellow flowers are succeeded by dark purple berries The bark has aromatic and tonic properties Sassafras ten is made from the leaves and the berries yield an oil used for flavouring, and in perfume, and for medical Durboses

Sassanid Name of a family that ruled in Persia from 226 to 651 It was founded by a chieftain called Ardashir, who conquered the Parthean rulers of the land, which his successors retained until

Sassoon merchants Jewish family of bankers and David Sassoon moved from Bagdad to Bombay early in the Sassoon, founded a trading business This came under the control of the younger David's son Jacob Ellas Sassoon who made it one of the greatest concerns of its kind in India In 1909 Jacob Sassoon was made a baronet, and when he died, Oct 24 1916, this title passed to his brother Edward Elias

passed to his brother Edward Elias
Edward Albert Sassoon, a member of another
branch of the family, settled in England where
he was one of the intimates of King Edward
VII In 1806 he succeeded to his father a
baronetcy, and from 1899 to 1912—when he
died—he was M.P for the Hythe division of
Kent His son, Sir Philip A G D Sassoon,
has represented the same division since 1912
He was Linder-Secretary for Air from 1924 to He was Under-Secretary for Air from 1924 to 1929, and returned to that post in 1931, and after the General Flection of 1935

Siegfried Sassoon is a modern poet and writer His Memoirs of a Fox Hunting Man, published in 1928, followed by Memoirs of an Infantry Officer form an autobiography of

his war service thornden Prize in 1929

In astronomy a term ap-Satellite plied to a companion body to a planet round which it revolves A satellite is regarded as having been thrown off from the planet when in a semi-molten state All the planets with the exception of Venus and Mercury, have satellites—the earth having one, the moon, Mars, two, Jupiter and Saturn nine each, Uranus, four, and Neptune, also one each of Jupiter and Saturn, are retrograde in motion

Satinwood Close-grained, hard, yellow wood used for veneers veneers and cabinet work, derived from an Indian tree, Chloroxylon swedema W Indian satinwood is the product of another genus, Zanthoxylum.

Satire (Lat, salura, a medley). Destruccriticism, which operates by ridiculing its object. It may be prose or poetry, a long treatise or a terse sentence There were satiric poets among the Greeks, notably Aristophanes (q v) Among the Romans satire phanes (q v) Among the Romans satire flourished as the works of Martial, Lucian, Juvenal and other poets prove The revival of learning brought about the revival of satire, Erasmus and Revellin being in a sense satirists, but in England its greatest exponents came later

In verse Pope and Dryden were remarkably clever as satirists, and in prose their equal was Jonathan Swift France has produced many notable saturists, Voltaire being perhaps the greatest The Don Quixote of Cervantes is a great satire.

Satsuma Ware Variety of Japan-ally made at Satsuma by a colony of Korean potters in the 16th century. It was made of a soft paste with a creamy yellow body and clear crackled glaze of various colours Later forms of Satsuma ware were made of harder paste with richly coloured enamels

Saturn Planet next beyond Jupiter and the most remote known to the Saturn's equatorial diameter 73,713 m, and its mean distance from the sun is 886,779,000 m, its year being equal to 29 46 of our years. It has nine satellites, and is remarkable for its meteoric ring system Satyr To the Greeks a mythological woodland delty He was halfman and half-goat, with horned head, pointed ears and a tail Persons representing satyrs attended the god Bacchus at the feasts held in his honour

Sauerkraut Popular German dish It consists of cabbage finely shredded and placed in a cask with alternate layers of salt, juniper berries, caraway seeds and other condiments. When full the contents are heavily weighted and left till fermented, when the sauerkraut is ready for use Saul First King of Israel A member of the tribe of Benjamin, he was a son of Kish, and at first fought with great success against the Philistines Later, after consulting the witch of Endor, he met the Philistines that the Philippines the Philippines that the Ph tines in a last battle at Mount Gilbos, where his sons were killed and he himself committed sulcide The chief interest of his reign lies in his relations with David, his successor and the close friend of his son Jonathan

a Sault Sainte Marie Name of a rapid in St

He was awarded the Haw- | Mary's River, between Lakes Superior and Huron It gives its name to two ship canals and two towns The canals were cut, one in Canada and the other in the United States, to avoid the rapids Each is about a m le long, and has 20½ ft. of navigable water The American Canal was opened in 1855 and the Canadian in 1895, the latter has one lock 900 ft long and 60 ft wide The tarms fore each other servers the river and towns face each other across the river and are connected by railway, forming an important link between the railways of the U.S.A. The Canadian town has some and Canada manufactures, while trade comes from the shipping on the canal Pop (1931) 23,682 The American town is in the State of Michigan Pop (1930) 13,755

Sauterne District of France It is Souterne S of Bordeaux and gives its name to a famous white wine made from vines grown in the region

Savanna Land covered with natural grass It is found in tropical countries and on it the vegetation grows very rapidly in the rainy season. The lands are called llanos in Venezuela, downs in Australia and campos in Brazil

Savannah City and seaport of Georgia, United States It is on the Savannah River, 18 m from its mouth, and is served by several railway lines. It is a prosperous seaport from which much cotton is exported and has a good harbour with large docks. Other industries are railway shops and manufactures of various kinds It is also a station of the United States navy Pop (1930) 85 024

The Savannah River rises on the borders of Georgia and S Carolina, and falls into the Atlantic below the city which is named after it. It is 450 m. long and small vessels can navigate most of its course

Savernake Forest in Wiltshire It is just outside Marlborough and covers about 20 sq m It is beautifully wooded, the trees being chiefly oaks and beeches Part of it belongs to the Marquess of Allesbury, who has a residence here \_The village of Savernake is on the G W Rly

Savings Bank Bank where money but which does not undertake other banking business. The Post Office Savings Bank, run by the Government, takes any sum up to \$500, and allows interest at the rate of 2½ per cent per annum. Trustee savings banks are content of the per annum. ducted by private persons, but their accounts are inspected by state officials. There are municipal savings banks in Birmingham and other places, and some of the great joint stock banks have savings bank departments,

stock banks have savings bank department, from which they issue home safes In 1934 there were 9,400,000 deposit accounts in the Post Office Savings Bank. The amount due to depositors on Jan. 1, 1935, was £354,831,000 In the trustee savings banks, for the printing and which have 494 offices in Great Britain and Ireland, nearly £227,000,000 was deposited There is a Trustee Savings Bank Association at 10 Gray's Inn Square, London, W C.1

Savings Certificate Document signifying the investment of money in funds guaranteed by the state War Savings Certificates were introduced during the Great War and sold for 15s 6d, 21 being repayable at the end of five years, or a proportionate amount earlier 1104

At present a Savings Certificate costs 15s and £1 is repaid for it at the end of ten years The interest is not liable to income tax, but no person can acquire more than 500 certificates. The certificates can be redeemed at any time before the end of the ten years, with propor tionate interest

To encourage the sale of these certificates, a To encourage the sale of these certificates, a National Savings Committee was set up at Sanctuary House, Westminster, S W 1, and a similar organisation for Scotland, at 122 George Street, Edinburgh Altogether from 1916 to Aug, 1935, 1 235,589,002 certificates were sold In 1936 the amount invested in this way was

about £500.000.000

Savonarola Girolamo Italian reli former Born at Ferrara on Sept 21, 1452, former Born at Ferrana on Sept 21, 1452, he became a Dominican monh and preached on the sinfulness and vanity of his generation After the death of Lorenzo the Magnificent in 1492, he led his party in the new republic and ruled Florence as a Christian common wealth sternly putting down all luxury and rivolity. An attempt to reform the Homan court and put an end to the irregularities of the classes housely then the confidence. court and put the end to the frequentials of the clergy brought him into conflict with the Church. He was accused of heresy by Rome, and excommunicated. The new system in Florence failed, and the Medici party returned to power Florence turned against him completely, and he was burned on May 23 1498

Savory Genus of herbs There are two main kinds summer savory (Saturela horiensis) and winter savory (Saturela moniana) Both grow in the warmer parts of Furope and bear lilac and purple flowers With a pleasing aromatic flavour, they are used

Savoy Ring of the family of which the 1034 a certain Humbert became Count of Savoy, and his descendants added from time to time to their inheritance In 1416 one of them rime to their inheritance in 1416 one of them called Amadeus was made a duke Later dukes were prominent in the affairs of Europe, and in 1720 one of them, Victor Amadeus, became King of Sardima Savoy itself was ceded to France in 1860, but the king was more than compensated when, in 1870, he became

King of Italy

as potherbs

Savoy District of France It lies between the Alps, the Rhone and the Lake of Geneva, and is divided into two departments of Savoie and Haute Savoie In 1034 it of Savoie and Haute Savoie In 1034 it became a county and then a duchy, and it was ruled by its counts and dukes until 1860, by which time they had become kings of Sardinia Chambery was its capital It was French from 1792 to 1816 In 1860, in return for the assistance given by Napoleon III to Italy, Savoy was ceded to France, but Italian influences are still strong thorain. influences are still strong therein

Savoy District of London It lies between the Strand and the Thames, and is named after Peter of Savoy, who was given the land by Henry III A royal palace built here was destroyed by the rebels about 1381, and later a hospital was built on the site. The chapel in Savoy Street still stands. The place was a sanctuary for criminals. It was made a chapel royal by George III, restored in 1864, and closed on account of structural defects in and closed on account of structural defects in 1932 It has some fine stained glass, and in it some notable persons are buried

The name is also borne by an hotel which was opened in 1889 and afterwards enlarged, and a theatre The theatre, opened in 1881,

was made famous because the Gilbert and Sullivan operas were produced here

Savoy Cabbage Hardy variety of cabbage with a dark green winkled leaf It is ready to cut in autumn and winter when other greens are scarce. Both dwarf and large varieties are to be had

Sawbridgeworth Urban district of Mertfordshire A market gardening centre, it is 27 m from London by the LNE Rly Pop (1931) 2604

Saw Fly Insect of the order Hymen-optera The female is pro-vided with a short serrated ovipositor with which cuts are made in leaves for the reception of the eggs Many of them are very destructive to plants, especially the rose pine and turnip saw files

Saxhorn Brass wind instrument of winding tubular form, it is used for orchestras and military bands Like the cornet it has a bell shaped opening and the pitch can be lowered by the use of pistons

Saxifrage Genus of herbs of the natural order saxifragaccae There are over 150 recognised species Many of the Alpine varieties are cultivated for use in rock gardens They are of low compact habit, the rosettes of tiny leaves forming a cushion like growth, bearing delicate white or rosy flowers on slender stems. Yellow and purple varieties are also obtainable London Pride (S umbrosa) a British variety, is very popular for edgings in the flower garden

Saxmundham Urban district and folk. It is 20 m from Ipsych and is a junction on the L N E Rly There is an agricultural trade Pop (1931) 1259

Saxons Teutonic race or group of races.

Saxons They lived in the modern Slesvig

Holstein, and about AD 300 appeared as pirates Later they spread into what are now France and Germany, and crossed to England, where many of them settled The extent of their influence on the development of England was undoubtedly considerable, both in race and language The Saxons also spread over a good part of Germany and gave their name to the various districts called Saxony They made themselves into a great federation, and carried on a long war with Charlemagne In the end they were beaten and forced to become Christians.

and forced to become Christians.

Saxony Republic of Germany It is in the centre of the country, bounded by Czecho Slovakla, Prussia and Bavaria, and covers 5787 sq m Much of it is a busy industrial area but it contains, districts of great beauty especially in the S W where is the Saxon Switzerland, as it is called Dresden is the capital, but Leiprig is somewhat larger Chemnitz and Plauen are manufacturing towns. Freiberg is a mining centre The chief river is the Elbe others are the Mulde, the Elster and the Spree. Wheat and other cereals are grown and mining is an important industry The people are chiefity Protestants The government is in the hands of a premier and a council of ministers responsible to an elected diet. The Germans call Eaxony Sachsen and the French call it Saxe Pop (1933) 5, 196,652.

The original Saxony was a district in the N of Germany inhabited by the Saxons It was one of the great German Duchles and in

919 Dake Henry was chosen German King In 919 Duke Henry was chosen Gorman King In 1180 the duchy was broken up, but its name was kept by a small district on the Elbe, around Wittenberg The ruler of this became an elector, and several of his successors were important persons in German history This was seen at the time of the Reformation, which took its rise in Saxony, and in the Thirty Years' War With other German States Saxony was divided more than once States Saxony was divided more than once, the most important partition being that of 1485

During the war of Napoleon's time the Saxons were usually on the side of France The elector was made a king for these services, The elector was made a king for these services, but in 1814 when peace was arranged, a good deal of his land was given to Prussia He kept, however, his kingly title In 1866 Saxony took the side of Austria against Prussia, but in 1871 it joined the new German Empire In Nov. 1918, it was declared a remubile and a constitution was given to it in republic, and a constitution was given to it in 1920 From 1934, however, the rights of the Federal States, including Saxony, were greatly restricted

Saxophone Musical wind instrument It is of brass, with 20 finger keys, and rather resembles the clarionet It is fitted with a single-reed, and is made in various sizes and keys The instrument is named after its inventor, Adolphe Saxe

Sayers Tom English puglist He was born in Pimileo on May 25 1826, and was at first a bricklayer He had his first fight in 1840, and was only beaten once in his professional career His last fight was in 1860, against Heenan, in which neither won, and Sayers was given a purse of £3000 He died on Nov 8, 1865

Scabious Annual and perennial herb also as pin-cushion flower from the shape of the flower-heads. The colours range from blue, through shades of red, to white. The garden scablous has been developed from S European varieties Wild English examples are the devil's bit and the field scabious

Scafell Mountain of Cumberland, at the E end of Wastwater Scafell Pike, 3210 ft, is the highest peak in England The summit was presented to the National Trust by Lord Leconfield in 1919

Scaffold Platform or stage erected for display of a spectacle ep, in former times, a public execution. The term now refers to a temporary framework for supporting a building during its erection or alteration and forming as well platforms for the use of the workmen Ordinary scaffolding consists of a framework of poles or steel tubing lashed together with strong tarred hemp cord or with galvanised flexible steel wire Putlogs or cross-pieces with their inner ends fitting into holes in a wall, are also used, also platforms of planks

Scalby Urban district and seaside resort on the North Sea, it is picturesquely placed in to the N of Scarborough, it is 232 m from London, on the L N E Rly Pop (1931) 2771

Scale Graduated measure, the divisions of which are related to a given unit, and used for reducing or enlarging maps, plans or drawings in proportion to their plans or drawings in proportion to their Scapa Flow Islands Almost ento the mile may be used Boxwood and ivory tirely landlocked, and studded with numerous

rules are made with various scales in common use marked upon them

Scale Name given in music to the series scale of sounds, of varying pitch, which goes to make up the octave It is thus the key to all harmonic music The Greeks recognised three kinds of scale, which they called diatonic chromatic and enharmonic, of these the enharmonic is believed to be the oldest.

Scale Flat, hard, horny or bony structures present on the skin of various animals In most fishes bony scales are developed from the dermis, in reptiles and birds horny epidermal scales occur and among mammals on the armadillo and pangolin also on the tails of rats, mice, beavers and some marsupials

Scaliger Joseph Justus, 1540-1609 The greatest scholar of the Middle Ages Born at Agen in 1540 the tenth child of Julius Caesar Scaligor, he was sont to the College of Guienne at Bordeaux, and after wards became his father's amanuensis, attain-ing a knowledge of Latin unequalled by any of his contemporaries

He spent four years from 1558 at the University of Paris, when he became a Protestant, and later travelled in Italy, England and Scotland with Louis Chastaigner de la Roche Pozav

Settling in France in 1574, he founded a new school of classical criticism and revolutionised the study of ancient chronology In 1593 he was appointed professor at Leyden, where he remained, the literary dictator of Europe, till his death, Jan 21, 1609

his death, Jan 21, 1609

Scaliger Julius Caesar French physician, soldier, scholar and writer Born about 1484 at La Rocca on the Lake of Garda, about 1525, he became physician to the Bishop of Agen, remaining in that city till his death A past master of Latin verse, he wrote many commentaries on scientific subjects, and gained notoriety by an unusually venomous attack on Erasmus His fame is overshadowed by that of his son, Joseph Justus He died Oct 21, 1558

Scalp Outer covering of the cranium The scalp is formed of several layers, the outermost being the skin bearing sweat and sebaceous glands and hair follicles, next the superficial fascia, a fibrous layer connecting the skin to the underlying occipito-frontal muscle and its aponeurosis, which covers in turn a layer of loose areolar tissue

Scalping Custom of removing the skin of the skull with hair attached, as proof of a warrior's process Practised from very early times, e g among the Scythiaus and the early Celts and Toutons, it is chiefly associated with the N. American Indians, among whom it was attended with elaborate ritual

Collective Scandinavia the peninsulas of N Europe consisting of Norway and Sweden, and Denmark The term comes from Scandia, which was an old name for S Sweden Scandi which was an old name for 3 Sweden Scalin-navia is very rich in antiquities, especially of the Viking period, including bronze, gold and silver work of high artistic excellence For the first 400 years of the Christian era Scandinavian art was strongly influenced by The later silver filigree work that of Rome shows Irish influence

islets, it is about 15 m. long and from 8 to 12 m wide For some time during the Great War it was the chief base of the British Grand Fleet. It was in Scapa Flow that the German Fleet was interned after its surrender in Nov. 1918 Many of the German ships were scuttled on June 21, 1919, but later several were salved.

Scapegoat Term used among the of the two goats brought to the Temple on the Day of Atonement (Lev xvi) One of these was sacrificed the other was the scape goat Over its head the high priest confessed the sins of the people, and then it was driven into the wilderness to carry its burden to the ovil spirit, Azazel

Scapula Anatomical name for the shoulder blade, a triangular bone placed at the upper part and back of the shoulder. It is held in position by powerful myseles to the arm there and back.

shoulder It is held in position by powerful muscles to the arm, thorax and back Scarab General name for an Egyptian amulet representing the sacred beetle, Scarabacus sacer, the symbol of Khepe Ra, a creative form of the sun god Scarabs were made in many materials such as various stones, glazed faience and, rarely, of metal or lvory There are many varieties of scarabs, some perforated for signet rings or for stringing on a necklace, others with names, designs or inscriptions engraved on the base Funereal scarabs, often of large size, were inscribed with

inscriptions engraved on the base Funereal scarabs, often of large size, were inscribed with portions of the Book of the Dead

Scarborough Borough and watering place of Yorkshire (NR), 42 m from York, on a bay divided into North and South Bays by a peninsula, the Scaur There is a tidal harbour, used by coasting and fishing vessels St. Mary's church dates from the 13th century, and there are ruins of a Norman castle The town has two mineral springs. A Roman station, Scarborough was early important It was burnt by Harold Hardrada (qv) in 1066, and by the Scots in 1318 and was twice besieged in the Civil War During the Great War it was shelled by the Germans Pop (1931) 41,791

The title Earl of Scarborough, has been held by the family of Lumley since 1690

Scarlatti Alessandro Italian composer was only twenty years of age when his opera L'Errore Innocente, was produced in Rome Five years later he was made master of the court music at Naples, and henceforth he divided his time between Naples and Rome His works include over 100 operas and upwards of 500 chamber cantatas His most important work in church music is the St Cecilia Mass He died Oct 24, 1725

Scarlet Bright red colour obtained from various pigments and dyestuffs. The scarlet dye formerly used for dyeing cloth or for preparing a scarlet pigment for painting was made from the cochineal insect, but now more permanent dyestuffs are made from coal tar derivatives

Scarlet Fever Infectious disease objections the symptoms take from one to seven days to appear The rash, which often starts on the second day, spreads very quickly, and at its height covers the whole body The fever dies down as the rash disappears, and the upper surface of the skin flakes off The patient should be isolated

Scaup Kind of wild duck It visits common on estuaries and seashores where mussels abound The head of the male is glossy black and green, neck and back black, wings and tall brown, with underparts white The female has a white face, and is less brilliantly coloured than the male

Scent essential or volatile oils in plants and by certain secretions in animals In plants oil glands may occur in leaves, glandular hairs or the petals of flowers, the scent serving as a protection against insects or in flowers for the attraction of insects in pollination. Scent glands occur in many animals and serve as a defence against enemies, a means of recognition of their own species, or for sex attraction See Perrume

Scepticism Term used to desoribe the those who deny (1) current or customary beliefs, or (2) the possibility of knowing reality Pyrrho of Elis (c 300 BC) was a notable sceptic among ancient philosophers In modern times Pascal is a representative of a scepticism which depreciates the value of elentific knowledge, while on the other hand Hume's scepticism is based on a thorough going sensationalism which takes its stand on physical science

Sceptre Staff or rod borne by kings as royal power It is usually adorned with some symbolic emblem. Both in Egypt and Greece gods as well as kings had sceptres, and among the Romans the sceptre was originally a spear In the English regalia three forms of sceptre are used in the coronation ceremony

Scheldt Important waterway of western Scheldt Europe Rising in France it flows through Belgium and the Netherlands, and near Doel, divides into the W Scheldt, or Hond, which flows into the North Sea at Flushing, and the E Scheldt, which reaches the sea farther north The passage of Sloe joins these two streams Cambrai, Valen ciennes Tournai, Ghent and Antwerp are among the towns on its banks The river, which is highly canalised and easily navigable is 250 m. long Its navigation has long been a fruitful source of dispute between Belgium and Holland. Its Flemish name is Schelde, French, Escaut.

Schenectady City of New York the county seat of Schenectady County, about 18 m N W of Albany Finely situated on the Mohawk River and the New York State Bargo Canal, it is the seat of Union University and an important manufacturing centre, the products including electrical apparatus and motor cars It has two broadcasting stations (31 48 M., 40 kW and 19 56 M., 20 kW) Pop (1930) 95 692

Scherzo Name given to a piece of music of a humorous or sprightly nature Usually a scherzo forms part of a symphony, sonata, or kindred work Beethovens wild and breathless scherzos form a striking contrast to the quiet, almost prim minuets of the earlier symphonies, and to the delicate examples of Mendelssohn

Scheveningen Town and watering place of the Nother lands, on the North Sea, 3 m NW of The Hague It is the chief bathing resort of the country and has an important horring fishery

Here Do Ruver described the combined English and French fleets in 1673 Pop 27,000

Schiehallion Mountain of Perthshire, leldy It is 3547 ft high Here Nevil Maskelyne carried out his famous experiment for determining the earth's density in 1774

Schiller Johann Christoph Friedrich Württemberg, Nov 10, 1759, he received a good classical education and was trained, first, for ciassical education and was trained, first, for the law, then for medicine, and was appointed military surgeon. His first play, Die Räuber, appeared in 1782 and created a tremendous sensation by its revolutionary sentiments. After a year's work at the theatre at Mannheim, he left for Weimar, later for Leipzig and Dresden. Don Carlos, his first mature play, appeared 1787. In 1788 he was made Professor of History at Jenn, where he married. His chief. of History at Jena, where he married His chief plays were Wallenstein, Die Jungfrau von Orleans, Maria Stuart and Wilhelm Tell, and ho wrote many beautiful poems He was a great friend of Goethe, next to whom he ranks among Germany's greatest poets He died May 9, 1805

Schipperke Small dog Bred origin-ally in Flanders, it is black with short hair, which at the neck forms a bristling frill It has brown eyes, small sharp ears, but only a rudimentary tall. It makes a good watch dog and excellent companion The

sood watch dog and excellent companion The average weight is about 12 lb

Schism Term meaning a rift, used chiefly for the breaking away of a part of a church or for the separation of one church into two The Great Schiam between the East and the West, which divided the Roman Catholic Church and the Orthodox Eastern Church, dates from 1054 The Great Schism of the West, during which the leadership of the Catholic Church was in dispute leastern of the Catholic Church was in dispute, lasted

from 1378 to 1417

Schist Geological term for a fine grained follated rock of metamorphic origin occurring in areas where great earth movements have taken place Schists are named after the chief constituent minerals. as in mica schist, consisting of quartz layers alternating with thin plates of mica, or hornblende schist, an aggregate of hornblende and felspar

Schilemann Heinrich German archaeologist. Born Jan 6, 1822, in Buckow, Mecklenburg Schwerin, he spent his youth in struggle, serving as grocer's apprentice, cabin-boy and book-keeper He had a passion for the Homeric story, and learnt ancient and modern Greek He made a fortune in St Petersburg during the Crimean War and travelled widely, visiting in 1868 the Homeric sites He excavated the Mycennean Troy at Hissarlik, mistaking it for the Homeric one, and unearthed five shaft graves at Mycenae and unearthed five shalt graves at Mycenae He wrote several monographs, including Troy and its Remains (1875) He died in Naples, Dec 25, 1890

Schnitzler Arthur Austrian drama-tist and novelist. Born May 15, 1862, the son of a Viennese physician, he at first studied and practised medicine, but later turned to writing, his first work, Analol, being published in 1893 He wrote many brilliant plays and novels, exposing the gay and frivolous Vienna of that day The plays include Liebeler and Frenvild, and the novels Casanora's Homecoming and Fräulein Else. Several of his works have been translated into English He died Oct 21, 1931

Here De Ruvter defeated the combined English | Scholasticism Term used for the scholastics or schoolmen, the teachers of the Middle Ages, who examined the doctrines of the church in the light of philosophic ideas. The name is derived from the schools established by Charlemagne. Scholasticism took on a new form when the writings of Aristotle came to be studied Shaken by the dissensions of the Scotists and the Thomists and, still more, by the increasing interest in science, scholasticism gradually fell into decay

School Primarily a place of instruction, also used for persons holding the same opinions, eq, the Manchester school Every civilised nation has had its schools for the education of the young, although the idea that all should be taught therein only dates from the 19th century

The schools of Europe in the middle ages were controlled by the priests and were adjuncts to the monasteries Then in England came the grammar schools, a product of the Reformation and similar schools in Scotland, Germany and other protestant countries The public schools grew out of the grammar schools and in the 19th century public schools for girls were founded on the same lines For elementary education schools were provided by the Church of England and Roman Catholics, and in 1871, when education was made compulsory, schools were built out of public funds and conducted on undenominational lines Further developments are the secondary schools and the continuation schools

School Board Committee of men and women in Gt Britain. elected by the ratepavers, to provide and control elementary education Instituted under the Elementary Education Act of 1870, these bodies were superseded in 1902 by the county and borough councils In Scotland the school boards came to an end in 1918

School of Art Institution where pupils receive training in drawing, painting, and other fine arts In the early days of the Renaissance Italy had schools of art, but it was not until 1711, when Sir Godfrey Kneller opened his school of design, that a similar institution appeared in England Nowadays both the fine arts and the industrial arts are fostered in this way

Schooner Name applied to a particular Schooner type of sailing vessel It usually has two masts fore-and aft rigged or with square topsails on the foremast Some schooners have three or four masts fore-and-cit rigged or the mainmast may have square topsails Some types of yachts also are schooner rigged

Schopenhauer Arthur German philent of systematic pessimism Born at Danzig, Feb 22, 1788, he received a thorough classical education in schools at Gotha and Weimar, and the universities of Göttingen and Jena His principal work, The World as Will and Idea, published in 1819, teaches a pantheism of the will Other works are Will in Nature and Freedom of the Will His whole life was one of internal discord the white the order. of internal discord, the subjective and objective -feeling and reason-being continually at war. He died Sept 21, 1860

Schreckhorn Peak of the Bornese Oberland It is SE of the Grindelwald, and has an altitude of 13,386 ft. The Klein Schreckhorn, to the N W is 11,474 ft. high 1108

Schreiner Olive South African novelist she was the daughter of a Gorman missionary Under the pen name of Ralph Iron she published her first novel, The Story of an African Success Later writings include Dreams, Woman and Labour and An English South African's View of the Situation (1899) She died Dec 12, 1920

SCHREINER

Schubert Franz Peter Austrian com1797, one of the most precocious musiclans of all
time, at the age of 16 he wrote a symphony,
at 18 a mass and The Erl King He was
unsurpassed in his facility for putting words
to music He would read a poem and even
while he was reading it, he had the music for
it in his brain He lett behind him no fewer
than 500 songs, as well as 10 symphonies
(among them the matchless Unfinished Sym
phony), 6 masses, many sonatas and other
works for the plane, string quartets, operas
cantatas, and overtures He died Nov 19, 1828

Schumann Robert. German comJune 8, 1810, he studied law first, and after
much travelling in foreign countries, studied
music in Lelpzig under Wieck his future
father in law He was a most prolific composer
of works for the piano, symphonies, concertos
quartets, songs, and much chamber music
His last years were clouded by insanity His
wife, Clara Wieck, was a splendid exponent of
his plano works He died July 29, 1856

Sciatica Form of neuralgia of the sciatic nerve Though not dangerous, it is often very painful Gout and rhoumatism, as well as exposure to damp and cold, are predisposing causes, and the affection occurs chiefly in adult males Sometimes the pain spreads from the back of the thigh, where it is usually localised, right down to the foot

Science Term denoting organised and systematised knowledge of the known facts of Nature In the first place this consists of noticing the resemblances and differences between things seen, and the arrangement of the knowledge thus gained

under general truths and principles

The term is also applied to all forms of systematised knowledge Science is concerned with the methods of classification, correlation and sequence of facts and phenomena, and the discovery of laws governing these The different departments of science have been divided into abstract and concrete, the former represented by mathematics and logic, the latter by astronomy, biology chemistry and physics The abstract sciences are linked to the concrete by applied mathematics, and similar links occur between the chemical, biological and physical sciences

Scilly Isles Group of islands off the 25 m from Land's End They are included in the county of Cornwall but have their own county council Identified by some with the Cassiterides and associated with the Lyonnesse of legend they comprise 6 large and some 30 small islands, with many islets The climate is very mild and the vegetation semi tropical Flowers and vegetables are raised for the English market The capital is Hugh Town on St Mary's Pop 2097

Scimitar Name given to a short curved sword used in the East, especially by the Turks and Persians. The

blade is broader at the end and has one cutting edge which comes to a point, the back being thicker and shorter In some types of Turkish scimitars the blade, though curved, does not widen out at the end

Scintillation Term in astronomy appearance of the stars, an optical effect due to variations in the atmosphere through which they are viewed. It is most apparent when a star is near the horizon at its rising or setting. The planet Mercury shares with the fixed stars the phenomenon of scintillation.

Scipio canus Major Born in 237 Bc atter suffering three disastrous defeats by Hannibal (at the Tichus and Trebia in 218 and at Cannae in 216) he overcame Hasdrubul and his brother, Mago, at Baecula, thus gaining the whole of Spain His decisive victory over Hannibal at Zania 202 ended the second Punic war He died 183 BC

Scipio Aemilianus Publius Cornellus, named Africanus Minor Born in 185 B c he took part in the third Punic war, and was in supreme command at the sloge of Carthage in 147 he took it by storm and by order of the Senate, levelled it to the ground Like many others, he was the victim of the fickleness of the people, and was killed in his bed, 129 B c

Sclerosis Term used in pathology for the hardening of a tissue especially in the central nervous system. In organs such a condition is called fibrosis or cirrhosis

Scone Burgh of Perthshire, Scotland, on It consists of the original town of Old Scone and the modern village of New Scone In the 8th century Scone became the capital of Pictavia, and here, down to 1488, the Scottish kings were crowned on the Stone of Destiny which is now beneath the Coronation Chair in Westminster Abboy The old abbey was burned down in 1559 Pop (1931) 2936

Score Name given to the copy of a piece of music, in which all the parts for instruments and voices, are so arranged that it is possible to appreciate the whole piece at a glance

Scorpion Arachnid animal of warm countries with claws resembling a lobster's and a jointed floxible abdomen terminating in a sting. The usual length from one to three inches but species as long as ten inches are found. In the act of stinging the tail is usually bent quickly over the back. The poison of the smaller species is generally more virulent than that of the larger kinds. Though often causing intense pain, the sting is seldom fatal to man

Scorpion Fly Insect of the family Panorpidae so named from the fact that the last few segments of the body can be bent over the back like a scorpion's tall. The head has a conspicuous beak

Scot and Lot Old term for a sort of expenditure The word scot comes from an Anglo Saxon word meaning a payment, and lot means a portion or share Before the Reform Act of 1832 anybody subject to scot and lot was entitled to vote for members of Parliament.

Scoter Genus of duck (Oedemia) Often called black duck, it is a great lover of the sea. It rarely visits land except

for breeding The three British species com-prise the common scoter (O Americana), the velvet scoter (O fusca), and the surf scoter (O perspecillata)

Scotch Terrier Small rough-haired terrier It is very hardy, highly intelligent, a first-rate companion, and a splendid ratter are remarkably large Formerly it was in request for fox-hunting in the wilder parts of the Scottish Highlands, where its gameness made it more useful than the ordinary foxhound

Scotland Country of Great Britain It occupies the northern part of the island, being divided from England by the Tweed and other streams Covering 29,796 of m, it is divided into 33 counties. It has a very irregular constline, especially on the west, where are a number of islands The chief groups are the Orkneys, Shetlands and Hebrides, 186 islands are enumerated

Edinburgh is the capital, but Glasgow is much the largest city Dundee, Aberdeen, Paisley and Greenock come next Inverness is the capital of the Highlands The population in 1931 was 4,842,534, a decrease of 40,000 since 1921 Nearly half live in the Glasgow area. which includes a considerable Irish element The people are mainly Presbyterians but there are many Roman Catholics The country has four universities, Edinburgh, Glasgow, St Andrews and Aberdeen, and an excellent system of local schools

Scotland is a mountainous country and much of its soil is very poor In the south, however, there are valleys that are extremely fertile It is divided traditionally by the Grampians into the Highlands and the Lowlands, and there are still distinct social and other differences between the inhabitants of the two The scenery is remarkably beautiful, the combination of mountain, loch and river making some exquisite landscapes, and the land is much visited by tourists

In some respects Scotland remains apart from England Its laws are different and it has its own judicial system, which consists of a High Court of Justiciary for criminal cases and a Court of Justiciary for criminal cases and a Court of Sessions for civil ones. The sheriff in Scotland is a paid judicial officer, not as in England, an honorary one. The local government system has been made very like that of England, but the towns are burghs, not boroughs, and the chairman of the county council is the convene (a v.) Scottish affairs council is the convener (q v) Scottish affairs are controlled by a Scoretary of State and for certain purposes there are special government departments of Scotland The king has his own household in Scotland

In early days Scotland was divided into two distinct parts The Highlands were inhabited by Gaello tribes living in clans under their own chiefs and the Lowlands were populated by people not unlike those living in the north of England About 900 a king of the Scots arose Governing at first only a small district in the south, and at times a vasal of the king of England, he gradually extended his power until there was a kingdom of Scotland covering the whole of the country Edward I conquered whole of the country Edward I conquered Scotland and made its king subject to him, but, after the Battle of Bannockburn, it regained its independence, which it retained under its own kings, who were often at war with England, until 1603, when James VI became James I of Great Britain In 1707 the parliaments of the two countries were

united and gradually the union became closer Of late there has been a Home Rule or National movement in Scotland, but it has never attained serious proportions

Scotland Church of Established church of Scotland It is Presbyterian in doctrine and government, and has, with intervals in the 17th century, been the established church since 1560 Since 1929 it has included the United Free Church of Scot-Since 1929 it land, itself an amalgamation of two un-established presbyterian churches The church has 1,280,000 members in 2720 congregations The controlling body is the general assembly which meets in Edinburgh every May, the king being represented by a high commissioner

Scotland Secretary of State for Official responsible to Parliament for the public business of Scotland The office was created in 1885 and carries with it a salary of £2000 a year The offices are at Dover House. Whitehall, London, SW1 with another at 9 Parliament Square, Edinburgh

Scotland Yard Headquarters of the Metropolitan Police It occupies the site of a palace which belonged to the kings of Scotland between Whitehall and the Thames In the 19th century police made their hendquartors in a building here, and later New Scotland Yard on the Thames Embankment was built for their administrative work Here are the offices of the commissioner and detective staff, and a museum.

The Lost Property Office formerly at New Scotland Yard has been removed to a new

building in Lambeth

Scots Greys Cavalry regiment, known officially as the 2nd Dragoons It traces its origin to certain mounted troops added to the Scottish Establishment troops added to the Scottish Establishment. lishment in 1678, which, after serving under Graham of Claverhouse, were regimented a-the Royal Scots Dragoons Its battle honours include, in addition to Marlborough's four great victories, Dettingen, Waterloo, Balaclava and Sevastopol Napoleon made a famous allusion to them as 'ccs terribles chevaux gris," and their eagle badge represents an "eagle" and colours of a gallant French regiment captured by a sergeant of the Greys in a charge on June 18, 1815

Regiment of foot murds Originally Scots Guards guards formed in Scotland under the Earl of Lin-lithgow in Nov, 1660, they became the 3rd Foot Guards in 1713, and the Scots Fusiller Guards under William IV The nuclent title of Scots Guards was restored to the regiment The ancient title Queen Victoria in 1877 Battle honours include, among other campaigns, Dettingen, the Peninsular War, Waterloo, the Crimea, and Tel-el-Kebir The Scots Guards also served with splendid distinction in the Great War

Scott Charles Prestwich English journalist Born at Bath, Oct 26, 1846, he was a son of Russell Scott He went to Corpus Christi College, Oxford, and on taking his degree joined the stail of the Manchester Guardian In 1872 he was made editor of that paper He retired from the editorship in 1929, but remained governing director until his death, Dec 31, 1931

Scott was one of the greatest editors of his day and under his direction the Manchester Guardian became one of the world's great newspapers From 1895 to 1906 Scott was Liberal M P for the Leigh division of Lancashire Michael Scott Scottish wizard magician He was born about 1200,

He entered the service of the Emperor Frederick II Tradition credits him with miraculous powers

A later Michael Scott, born in 1789, was a Scottish novelist who wrote Tom Cringle's Log, still a classic of sea going life The only other work of his which survives is The Oruise of the Midge He wrote anonymously, and his identity was not revealed until after his death, which took place in 1835

George Gilbert English architect Scott George Giner, Bucks, in 1811, be had a great love for drawing and for medi ne na a great love for drawing and for medieval churches, and was consequently articled to a London architect After 1840 he throw himself into the Gothic revival, and built or restored 26 cathedrals, over 500 churches, numerous monuments, public and private buildings, such as new government offices in London, the Albert Memorial and the Midland Rallway terminus in London. He was elected Rallway terminus in London He was elected R A in 1861 and knighted 1872 He died March 27, 1878

Scott Sir Giles Gilbert. British architect. Born Nov 9 1880, grandson of Sir George Gilbert Scott architect, his design for the new Liverpool Cathedral, embodying his dream of a Gothic revival, was accepted in 1903, one year after he began to practise His work is chiefly ecclesiastical, including St Maughold's Ramsay, I O M., and the new buildings at Clare College, Cambridge He was made an R A in 1922, and was knighted after the consecration of Liverpool Cathedral in 1924 In 1933 he became President of the in 1924 RIBA In 1933 he became President of the

Robert Falcon English explorer Scott Roper ration English explorer for at Devonport June 6, 1863, he entered II M S Britannia in 1880 From 1900 to 1904 he was in command of the Discovery, exploring the Antarctic regions Assisted by both British and Dominion Govern ments, he sailed for the South Pole in June, 1910, reaching it with four companions in Jan, 1912

The return journey ended in tragedy, owing to cold, blizzards and insufficient food Evans succumbed in Feb, and in March Capt Oates deliberately sacrificed himself by walking out into the blizzard The weather made it im into the bitzzard The weetner made if me possible for the others to proceed, and the bodies of Scott, Wilson and Bowers as well as Scott a records and dlaries, were found by a search party in Nov 1912 The diaries showed that they survived Oates by only a few days

Scott Sir Walter Scottish poet and novelist Born at Edinburgh, Ang 15 1771, of gentle blood, his early education was interrupted by delicate health coupled with lameness but he attended the High School and University At about 15 he entered the office of his father, who was a Writer to the Signet, and later held several public offices such as Sheriff of Scikirkshire In 1802 he began the first of his long poems The Lay of the Last Munstret, it was published in 1805, and attracted immediate and wide

in 1805, and attracted immediate and wide spread attention Marmion, The Lady of the Lale and Rokeby followed in rapid succession spread attention Warefley appeared anonymously in 1811 taking the world by storm The complete list of his novels is too long to give in full, but we may mention Guy Mannering, Rob Roy, The Heart of Midlothian, The Bride of Lammer moor Iranhoe, The Monastery as well as Lives of Dryden Swift and Napoleon

Scott's unfortunate secret partnership in the publishing house of Ballantynes led to his

and drew much of his wisdom from the Arabic | financial undoing and early death After the

crush, he tolled incersantly to pay his debts they were cleared but not until after he died. As a man, Scott has been called one of the most generous, one of the most friendly, one of the most honourable As a writer he occupies the highest rank and his influence on literature was immense His works have been translated into many languages

He married in 1797 Charlotte Margaret Carpenter, and died Sopt 21 1832 His biography was written by his son-in-law, biography J G Lockhart

Scouting Primarily a military term denoting denoting observation of an enemy's movements actual or intended, by individuals or parties, pushed out in advance of the main fighting force Such service comes under the general heading of reconnaissance and demands may be sufficiency and wayless and demands great intelligence and wariness on the part of those engaged in it Ordinarily on land scouting duties are carried out by cavalry, a familiar example of good military scouting being the work of the Uhlans in the France Prussian War Nowadays scouting is chiefly done, wherever possible, from the air See BOY SCOUTS

Screen Apparatus used in printing It fastened together, and placed in the camera between the plate and the lens Each place is ruled with fine lines. It is used in photois ruled with fine lines. It is used in photographing pictures for reproduction as half-tone blocks and its work is to give the effects of light and shade which it does by breaking up the photograph into a series of dots of various sizes which, place the ink on the printing surface. The number of ruled lines varies from 60 to 400 to the inch, larger numbers being used for the better class of work.

Screen in church architecture, a partition dividing part of a church from the remainder especially the chancel from the nave.

remailider especially the chancel from the nave Wood, stone and iron figure among the materials used. The rood screen, so called from the rood, or crucifix, on a great wooden beam over it, was often very richly ornamented. There are fine examples of decorated screens in several of the English cathedrals such as those at Canterbury Durham and Lincoln, and in many posits observed. many parish churches

Screw Propeller In ships a propulsisting of two or more (usually three) blades set obliquely on a shaft turned by steam, or other motive power In effect the propeller represents a section cut from a long screw The blades each constitute a portion of the thread, the pitch being the distance the screw moves forward in a revolution. When turned in a forward direction the blades press against the water and the ship goes ahead. Since the water yields to some degree, there is a loss termed slip which reduces the actual forward motion to something less than the pitch of the screw

Alexander Nicholaevich Scriabin Sian composer Born at Moscow, Dec 25, 1871, after studying and teaching at the Moscow Conservatoire of Music, he toured for six years, settled in Brussels and returned to Moscow in 1910 He visited England in 1914, gave two plane recitals, and played the plane in his Prometheus He developed an individual harmonic basis, which was symbolic in a musical way, with a definite spiritual foundation His chief works were Prometheus (Poem of Fire), Vers la Flamme and Divine Poem. He died April 14, 1915 Scriptorium Place where manuscripts often copied The scriptorium was also the studio of the great monasteries, and here much beautiful illuminating and binding was done

Scrivener One who draws up contracts one of the livery companies of the city of London, with a charter dating back to 1617, though the records are of much earlier date

Scrofula Form of tuberculosis also known as struma, in which the glands of the neck enlarge In earlier days it was called the king's evil and the reigning sovereign used to "touch" for it

Scrooby Village of Nottinghamshire, about 2 m from Bawtry, on the LNE RIV There are remains of a palace of the Archbishop of York The manor house was the home of William Brewster (died 1644), one of the most prominent of the Pilgrim Fathers

Scrub Term used for tracts of under growth, brushwood, or stunted trees, known in the Mediterranean area as magus In Australia characteristic forms are mallee scrub, in which a species of eucalyptus predominates, and the brigalow scrub, composed largely of a kind of acacia Cacti are a feature of the scrub of E Africa

Scruple Unit of weight. It is found in apothecaries measure where one scruple is composed of 20 grains or minims

Scudo Old Italian silver coin worth about 4 shillings The value varied in the different states. The word means "shield"

Scullin James Henry Australian politi-cian Born Sept 18, 1876, at Ballarat, he became a journalist, and was elected to the federal Parliament as a Labour member in 1919. Description 1913 elected to the lederal Parlament as a Labour member in 1910 Defeated in 1913, he remained out of parliament till 1922 He became leader of the federal Labour Party in 1928 and Premier in Oct, 1929 In the financial crisis of 1930-31 his party was defeated and he resigned, being succeeded by J. A. Lyons (q v) In 1935 he announced his retirement.

Sculling a pair of sculls shorter and lighter than rowing oars, and without a cox For the world's professional sculling championship the Thames course is from Putney to Mortlake, a distance of 44 m, over which the Wingfield Sculls, the amateur Thames cham pionship, also takes place Another famous sculling event is the Diamond Soulls at Henley Many world championships have been decided Many world championships have been decided in New South Wales, on the Parramatta River

Sculpture One of the oldest and most universal arts, it represents an object, real or imaginary, in material and three dimensional form. The symmetry and rhythm of sculpture have appealed to man through the ages, satisfying both his desire to imitate, in the reproduction of natural objects, and his will to create, offering as it does a medium of expression for his imaginary figures The golden age of sculpture coincides with the period of Greek history, the Greeks having found in it the ideal expression of their love of nature and the beautiful The commonest materials used are stone, clay, bronze, ivory, gold and silver

Scunthorpe Urban district and market town of Lincolnshire It is 12 m south-east of Goole, and 180

from London by the LNE Rlv An industrial centre, it has iron and steel works It is officially known as Scunthorpe and Frodingham Pop (1931) 33,761

Scurvy Disease marked by swelling of the scurvy gums and dry, rough skin It is caused by the lack of vitamin C in the food Formerly it was distressingly common among sallors and soldiers, who in the course of their duties were forced to live for long periods at a stretch on salt meat and without fresh vege tables Since the cause has been known the disease has been rare. The drinking of lemon juice is an important feature of the cure and prevention

Scutage Term used under the feudal system to denote the pecuniary commutation of the military services of a knight Though generally held to date from the time of Henry II, the practice is found as early as the reign of Henry I. The name comes then the bright shield (Letter when)

from the knight's shield (Latin sculum)

Scutari lies SE of Lake Scutari some
12 m from the Adriatic coast After having 12 m from the Adriatic coast After having undergone a siege in the first Balkan War, it figured in the Great War, being occupied by the Austrians until Nov, 1918 There are woollen manufactures Pop (1930) 29,209

Scutari (or Uskudur) Town of Asia Scutari Minor, opposite Istanbul (Constantinople) A hospital used during the Crimean War was the scene of Florence Nightingale's ministrations. A fire in 1921 caused serious

ministrations A fire in 1921 caused serious damage There are manufactures of silks and cottons At Haidar Pasha is a terminus of the Anatolian Railway. The ancient name of the

Scylla Rock in the Straits of Messina, opposite the whirlpool Charybdis To the ancient Greeks Sovila was a six-headed

Scyros Small rocky island in the Aegean Sea, 24 m NE of Euboea belonging to Greece In ancient Greek legend it was associated with Theseus Pop 4200

Scythia Name used by the ancients for a region around the Black Sea, varying in extent at different periods It received its name from the Scythians, a people from upper Asia who occupied it in the 7th century BC Originally of nomadic habits, the Scythians in course of time came under Greek influence, and became agriculturalists

Sea Anemone Popular name of certain marine animals of the order Anthocoa, related to the corals Sea anemones commonly occur in rock-pools and in form have a general flower like appearance The body consists of a soft fleshy contractile column attached at the base to a rock, and having at the free end a mouth surrounded by a ring of contractile tentacles and communicating with a simple sac-like stomach The food consists of small crustaceous and other organisms

Sea Bass Food fish (Morone labrax) related to the perch. It is found chiefly around S and S.W. Europe, and occasionally off British shores. It weighs up to 15 lb. It has a blue grey back, grey sides, to 15 ib It has a blue grey back, grey sides, and white under parts, and the first dorsal fin carries eight spines About May the bass leaves the deep water for spawning, and the young fish prev upon smaller fish about the mouths of rivers The fiesh is somewhat coarse

Seaford Watering place of Sussex, about 3 m from Newhaven It enjoys

a sheltered situation and has excellent golf and bathing facilities Scaford was a "limb" of the Cinque Ports, and had considerable trade as a port, being at one time at the mouth of the Ouse At various periods it has suffered much from encroachments of the sea S Head became public property in 1928 Seaford

6991 Seaforth Sea loch of Scotland 14 m long, on the cast side of the Island of Lewis

The title of Earl of Scaforth was borne by the mily of Maclenzie from 1623 to 1781 The family of Maclenzie from 1623 to 1781 The last earl gave his name to the Seaforth Highlanders, a regiment which he raised on his estates in Ross shire. The two battallons are the 72nd and 78th Foot and both have a fine record of service, including several theatres of the Great War The depot is at Fort George

Seaforth District of Lancashire It is on the Mersey, 4 m from Liver pool and is a popular seaside resort. It is reached by an overhead electric railway, and by the LMS line, and is part of the urban district of Waterloo and Seaforth See WATER 100 WITH SEAFORTH

Seaham Harbour Seaport and urban district of Durham 5 m from Sunderland, on the LNE Rly From a small village the place grew into a populous and thriving industrial district after the coal mines were opened The harbour is a

the coal mines were opened. The harbour is use the modern structure. Industrial activities include iron founding chemical works, and blast furnaces. Pop. (1931) 19,394

Sea Heath Perennial herb (Frankenia laeris). It grows on land that is impregnated with salt, and has a wide range, being found not only in Western Europe but also in Asia and Africa. The flowers are small and rose-coloured, the leaves are oblong, and the stems are covered with down. and the stems are covered with down

Sea Holly Perennial herb (Eringium maritimum) It is found on sandy sea coasts The leaves are rounded in shape tough and of a leathery consistency, and are furnished with sharp spines The flowers are bluish white, and are grouped in a dense head

Sea Horse Small fish (Hypocampus)
Sea horses range from two inches to a foot in
length They are found mostly in tropical
seas but one species II antiquorum, is common in the Mediterranean, and occasionally visits the southern shores of Britain The exterior is bony, and the name is due to the shape of the fore part of the body and the way in which the head is set on the trunk

Sea Kale Perennial herb (Crambe mari tima) of the natural order ruciferae It is common in the wild state on the coasts of Europe and is widely cultivated

in Britain as a vegetable

One of a group of carnivorous sea Seal One of a group of carmy tapering hodies and short limbs equipped with paddles. The true seals, Phocidae constitute with the suborder Pinnipedia Seals are store. walruses the suborder Pinnipedia Seals are found chiefly in Arctic and Antarctic waters out many species are visitors to and residents on British coasts They are hunted for their skins and their blubber

Piece of some plastic substance im-Seal pressed with a device and used to uthenticate a document, or furnish proof of the integrity of a package, etc. Scaling wax, a mixture of sheliac turpentine etc. or lead forms the matrix and the die (also termed the

seal) is made of hard stone or of metal. Sealare used by corporate bodies and companies. Writs, and copies of documents to be used as ovidence, must be sealed with the appropriate official seal See GREAT SHAL

Secret instructions contained in a sealed cover and hence called sealed orders, are some times issued to a naval commander the envelope etc, to be opened only after sailing

Genus plant-of the Lavender of (Limonium) natural order Plumbaginaceue The lavenders are common shore plants in temperate regions, and have bluish purple flowers. The calyx is tough, and keeps its shape for a considerable time after the seeds have dispersed, and the plants are often dried and used for winter decoration

Sea Lion Another name for the fur seal Sea Lion Sea lions differ from the true seals in having a more pointed muzzle, and the hind limbs separate from the tall and in other respects They spend more time out of the water than the true seals The Labrador sea lion is the principal source of the seal skin of commerce The kind usually seen in circuses is the black Californian sea lion

Seaman Sir Owen Born in 1861 he was educated at Shrewsbury and Cambridge and became assistant master at Rassal 1884, Professor of Literature, Durham College of Science, Newcastle 1880 and burnister of the Inner Temple, 1897. He joined the staff of Punch, 1897, and was made editor in 1906. He was knighted 1914, and made a baronet in 1933. He was a skilful versifier and brilliant parodist, and was the author of a number of topical articles and books, notable among them being Made in England (1916), and From the Home Front (1918), stirring verses written the Home Front (1918), stirring verses written during the Great War Interludes of an Editor appeared in 1929 He resigned the editorship He resigned the editorship

of Punch in 1933, and died on Feb 2, 1936
Sea Mouse Name commonly applied to
of the order Polychaeta It is often found cast up by the sea along the coasts of Britain It rarely exceeds 5 inches in length, and has a fat oval segmented body set with bristles.

Sea Otter Carnivorous mammal (Latax) massive than the true otter The skin is massive than the true otter remarkably loose and the beautiful brown fur is very valuable Unlike the true ofter, the sea ottor feeds on molluses crustaceans, and sea urchins, not on fish The chief habitats are the Aleutian Islands and Alaska

Sea Perch Fish (Serranus cabrilla) known as the comber About 10 in long, it is sometimes found on the southern coasts of England a visitor from the Atlantic. It also occurs in the Mediterranean and the Red Sea The body is red with wavy blue or white lines on the sides The lower jaw is underhung Seaplane Type of heavier than air craft so constructed as to be able to

land on or arise from the water Scaplanes may be divided into three classes (a) Amphibians those able to alight or take off from land or water (b) Float Planes, fitted with floats (c) Flying boats whose landing gear consists of boats Of these three types the float planes have accomplished the world's speed records, the flying boats being most suited to ocean travel

Sea Power Term used for naval strength Some historians consider that command of the sea has been

the decisive factor in the world's great wars Superior sea power made possible the defeat of the Persians by the Greeks and of the Carthacinians by the Romans It was the dominance of Great Britain at sea that made possible her victories of the 18th and early 19th centuries and the creation of her overseas empire Finally, the strength of the British Navy made certain the victory of the Allies over Germany in the Great War The great work on the subject is A T Mahan's book, The Influence of Sea Power upon History

Sea power thus depends upon the strength of a navy Before the Great War Britain had much the strongest navy in the world, and for

Sea power thus depends upon the strength of a navy Before the Great War Britain had much the strongest navy in the world, and for long it was a cardinal principle of her policy that her navy should be as strong as those of the next two strongest powers combined. The Great War changed the position entirely. The United States claimed naval parity with Great Britain and in the opinion of some the development of aircraft has seriously affected naval action and importance. See Navy

Searchlight A powerful lamp usually behind some form of louver shutter, the light from which is reflected from a parabolic mirror, this ensuring the emission of a beam of parallel light.

ouver snutter, the light from which is reflected from a parabolic mirror, this ensuring the emission of a beam of parallel light.

Searchlights are used in naval and military warfare for signalling and for finding a desired target, and for the illuminating at night of dangerous channels for merchant ships. In favourable weather ships can signal with searchlights for more than 50 m, that is for more than horizon distance, and their speed of transmission is limited only by the defects of the human eye

Sea Serpent star olaimed to have been seen in various seas Legend is rich in tales of sea serpents, and many circumstantial accounts exist of their appearance in modern times Although it is just within the bounds of possibility that such animals exist, such appearances can usually be explained in other ways. Thus a school of porpoises, or even a flight of sea birds, in certain conditions may present an appearance not unlike that of a single snake-like creature.

Sea-sickness Indisposition caused by the pitching and rolling of a boat at sea, characterised by loss of appetite, giddiness, nausea, and often actual sickness.

Treatment—The remedles prescribed vary with the severity of the trouble and the idiosynerasy of the patient. Milk and soda water, and leed champagne are among effervescing beverages that may have a beneficial effect, but very moderate amounts of alcohol should be used Except in very serious cases drugs are not advisable

Sea Snake Family of tropical aquatic reptiles (Hydrophinae) of the Indian and Pacific Oceans Ranging from three to eight feet in length, they are marked with bands of contrasting and usually bright colours. They move with difficulty on land, but are very active in the water, in which they can remain for long periods. Their bite is very poisonous. One species in the Philippines lives in fresh water. All the sea snakes are viviparous.

Sea Squirt Name used for the ascidians, marine animals of the order Tunicata They have the form of a two-necked bottle, and are found clinging to rocks along the coast.

Seaton Pleasure resort and urban district Seaton of Devonshire It is on the Axe,

7 m from Axminster and 148 from London, on the S Rlv There is a golf course and good bathing Pop (1931) 2351 Seaton Delaval Urban district of Northumberland It

Seaton Delaval Urban district of Northumberland It is 6 m from North Shields, on the L N E Rly It is a coal mining centre Near is Seaton Delaval Hall, the seat of Lord Hastings Pop (1931) 7377

Sea Trout Another name for the salmon trout. It was long regarded as a separate specimen, but in accordance with the modern tendency it is now treated simply as a migratory form Like the salmon, it feeds in the sea, but ascends the rivers for spawning

Seattle City and seaport of the state of Lake Washington, USA, between Lake Washington and Elliot Bay It is a very important Pacific seaport, trading largely with Alaska Lumbering and shipbuilding are among the most prominent industries, and there are manufactures of furniture, lumber products, leather goods, and flour In 1889 almost the entire business quarter was destroyed by fire The city is the seat of Washington University Pop (1930) 365,583

Sea Urchin (Echinus) Sea animal with tough, leathery, prickly skin, belonging to the order Echinoidea. The common sea urchin (E esculentus), valued as food in the Mediterranean is not uncommon off Britain The stony case enclosing its body is studded with long spines in which are embedded organs with which this animal snaps at its prey

Seaweed General name for a large number of the spore bearing plants known as algae, which grow on the sea bottom at distances ranging from high-water mark to a depth of some 600 ft There are no roots, every part of the plant body having the power of taking in nutriment

Sebastian Saint and martyr He was an officer in the Praetorian Guard and became an ardent Christian In 288 Diocletian ordered him to be put to death, though pierced with arrows, he managed to recover, but was then clubbed to death His martyrdom is the subject of numerous paintings

Second Advent Term for the expected second coming of Christ on earth Among the early Christians, as among certain modern sects known as Adventists, the Second Advent was regarded as being close at hand

Secondary Official of the corporation of the city of London His duty is to prepare the list of the liverymen entitled to vote at elections for members of Parliament

Second Ballot Plan used at certain clections. It is used when it is necessary for a candidate to receive an absolute majority of the votes cast, in order to secure election. If no candidate secures this majority at the first ballot, a second one is taken, with the candidates lowest on the list left out. In elections for the President of the German Republic, a second ballot is taken a month after the first if no candidate receives the votes of half the electors, this being necessary to secure election. On the second ballot a bare majority is sufficient for election

Second Chamber Term used for one of the houses of a legislature, the members of which are not as a rule elected directly by the people It is

usually called the upper house In the British second chamber, the House of Lords, the basis of membership is heredity. In the United States, Canada, and other federal countries, its members are chosen by the separate states in the United States each state sends the same number (two) whether it is densely or sparsely populated. In some second chambers, the mem bers, or a proportion of them, are nominated by the king or president, or by the government

A second chamber is regarded as necessary in order to act as a check on the first, or elected house, but there is a tendency to limit its powers, as with the House of Lords, and in one or two cases the second chamber has been

aholished

Second Empire a period in the history of France extending from Dec 2. 1852, when Louis Napoleon, after overthrowing the Second Republic, became emperor as Napoleon III, to Sept. 4, 1870, three days after the Battle of Sedan, when the Third Republic was set up

Second Lieutenant Officer in the British army This is the lowest rank of commissioned officer, and cadets enter the service as second lientenants. One star is worn as a sign of the lieutenants

rank

Secretary Term used for a person who attends to the correspondence records, and general business of a company or other business concern society or individual, and also for a minister in charge of a government department. The interests of secretaries are looked after by the Chartered secretaries are looked after by the Chartered Institute of Secretaries, which was established in 1891 and Incorporated by Royal charter in 1902 This body not only holds examinations in secretarial duties, but also provides in struction by means of lectures

SECRETARIAL WORK AS A CAREER. The term' secretarial work' is generally used to designate the higher paid and more confidential branches of the profession but we

fidential branches of the profession, but we may consider here under that general heading all kinds of office and clerical work.

In this class of work women are gradually gaining an almost complete monopoly Some of the earliest openings for women occurred in office work. Commencing as clerks typists and book keepers women have worked their way up and through all grades and kinds of office work, and except in some old fashioned firms and 'close' occupations, they appear to be practically ousting men from this particular field.

Training for the lower paid grades of office work is supplied by the numerous business and commercial colleges throughout the country and to a growing extent by commercial courses in secondary schools The subjects required are good elementary English and arithmetic, shorthand, typing, book keeping, filing and indexing A foreign language of other French

or Spanish, is an advantage

The number of young shorthand typists clerks, and book keepers seeking employment is greatly in excess of the vacancies for them, and special qualifications are necessary if remunerative work is to be easily found. But of no other profession can it be so truly said that 'there is plenty of room at the top of the ladder,' for there is undoubtedly a large unsatisfied demand for just the right kind of capable woman office assistant

A Private Secretary, in addition to being an expert shorthand typist must be able to

conduct correspondence on her own initiative She is usually required to keep books, as she often has control of her employers private business Successful fulfilment of the post is largely a matter of character, for every well qualified woman will not make a good secretary. The essential characteristics of a good private secretary are adaptability, willingness, tact, discretion and initiative

Secretary Bird (Serpentarius secre tary Bird (serpentarius) Long legged, long tailed African bird allied to the vultures In appearance resembling the heron, it feeds chiefly on snakes The plumage is grey, black, and white It takes its name from the tufts at the back of its head which look not unlike quill pens stuck behind the ear

Secretary of State Title given to the officials in charge of various important British government departments The name was first used in the reign of Elizabeth for two officials who assisted the sovereign After the accession of William III one secr tary of state was put in charge of northern affairs and the other of southern About a century later one looked after home affairs and the other after foreign

Nowadays the secretaries of state comprise the Home Secretary, and the secretaries for foreign affairs, for colonial affairs, for war, for air, for Scotland, for India, and for the Dominions. They are all in the Cabinet.

Secret Service Intelligence depart which procures information about military, naval, political, and other matters. In connection therewith is usually a system of secret agents in other lands, who furnish intelligence as required by their employer In war time this work becomes of enhanced importance, and the domiciled agents are supplemented by men and women detailed for espionage and secret service in enemy or neutral countries During the Great War aeroplanes were used to convey agents into enemy terrain

Society Association of people whose Secret common object and activities are known only to initiates The aims of such societies are very various, some are political, others religious, others are formed for mutual help. In antiquity they take such form as the famous mysteries of Greece Among secret societies of modern times may be mentioned such diverse associations as the Freemasons, the Italian Camorra, the Ku Klux Klan of America, and the Boxers in

Secularism System that rejects all bellef in God, religion, and a future life It was founded in England by G J Holycake, and took up an attitude of opposition to all religion Its foremost advocate was Charles Bradlaugh, and to forward the ideas the National Secular Society was founded By this society a good deal of literature has been issued

Secunderabad British military state of Hyderabad 6 m from the capital and 390 from Madras, 1850 ft. above sea level It is the headquarters of a brigade of infantry, and near by is the headquarters of a cavalry brigade

Security Freedom from fear, protection or certainty The word was much used in the years following the Great War, when one of the cardinal points of French policy was the demand that her eastern

rontier should be secured to her from invasion The proposal that Great Britain and the United states should give a joint gnarantee of security roke down, but some measure of security was iven by the Pact of Locarno signed in Oct, See Locaryo

Town of France In the dept of Ardennes, on the Meuse, 164

a NE from Paris, it is a centre for textile
nanufacture Here, on Sept 1, 1870, Napoleon
II surrendered to the Germans, with 86,000 i the French Army During the Great War he town was in German hands, and was taken ov French and American forces late in 1918 op 18,235

Sedan Chair Covered chair used largely in the 18th century It vas carried by bearers by means of poles, and vas the usual means of transport in towns for

adies of quality

Sedbergh Market town of Yorkshire (WR), 28 m SSE of Penith, on the LMS Riv Sedbergh School was ounded in 1528 by Roger Lupton, Provost of Ston suppressed by Henry VIII, and reounded in 1551 Formerly a grammar school, t was opened as a public school in 1874 op (1931) 3570

Sedd-el-Bahr of Gallipoli Situated in the N side of the entrances to the Darda-ielles, its position possesses great strategic ignificance Its fortifications, which date rom the 17th century, were reconditioned by he Allies in the Great War, in which the place figured conspicuously

Seddon Richard John New Zealand ancs in 1845, at the age of 18 he went to australia, and in 1866 joined his brother in a nining venture in New Zealand He entered he legislature there in 1879, becoming Minister or Public Works Defence, and Mines in 1891 He was Premier from 1893 till his death, June 10, 1906

Sedge Plant of the genus Carex occurring in many temperate, Alpine and Arctic areas The common bullrush is an mample Some can exist in dry places, co, co, arcnaria, useful as a sand-binding plant, but they are mostly swamp plants, dving out when the land is drained

Sedgefield Town of Durham It is from Stockton-on-rees, on the L.N E Rly Cattle markets are

Sedgeley Urban district of Staffordshire ton, on the L MS Riv The chief industry is the manufacture of hardware, while around it are coal mines Pop (1931) 19,261

Sedgemoor Battle of Conflict between the forces of James II and the Duke of Monmouth, fought July 6, 1685, on the marshy tract of that name in Somerset, 5 m from Bridgwater In number the opposing forces were about equal, each side having about 1000 or 5000 soldiers But James's men were real trained and armed while the forces of well trained and armed, while the forces of Monmouth consisted chiefly of clumsy and ill-equipped peasants, and the battle resulted in the rout of Monmouth's army

Any words or acts directed Sedition Any words or acts directed against authority, which may have the effect of bringing the sovereign or the government into contempt or hatred, or, generally, which may disturb the tranquility of the State

Sedley Sir Charles English wit and of Sir John Sedley, Aylesford, Kent, he was educated at Oxford A great patron of literature during the Restoration period, his best known song is "Phyllis is My Only Joy," his best known comedies, The Mulberry Garden and Bellamira, and tragedies Anthony and Cleopatra, and The Tyrant of Crete For some time he was MP for New Romney, Kent He died Aug 20, 1701

Seduction Literally enticing from yritue, but used especially of the act of depriving an unmarried woman

of the act of depriving an unmarried woman of her chastity The English law on the subject is that this is a wrong, not so much against the woman herself, as against her parent or employer, who can sue the seducer for damages because he has deprived him of the woman's services In Scotland the woman herself can bring an action for damages against her seducer

Seed Term for the part of higher plants from which a new individual arises It consists of an embryo and a supply of food, developed during the life of the parent plant and subsequently becoming detached, when it is capable of germinating to form a new plant. The seed is provided with a protective covering

The seed is provided with a protective covering and means whereby its dispersal from the neighbourhood of the parent plant is assured Seeley Sir John Robert English hisbecame Professor of Latin at University College, London, in 1863, and Regius Professor of Modern History at Cambridge in 1869 His Ecce Homo, issued anonymously in 1865, caused immense controversy in religious circles. caused immense controversy in religious circles
For his famous essay, The Expansion of
England (1883), he gained the KCMG He
died Jan. 13 1895

Seely John Edward Bernard. British politician Born May 31, 1868, he was educated at Harrow and Cambridge, and was called to the Bar in 1897 He served with was called to the Bar in 1897 He served with distinction in the S African War Entering politics he was MP for the Isle of Wight, 1900-06 and 1923 24, for the Abercromby division of Liverpool, 1906-10, and for the Ilkeston division of Derby, 1910-22. He was appointed Under-Secretary for the Colonies, 1908-10, Under Secretary for War, 1911, Secretary for Secretary for Air, 1919 In 1933 he was made a baron, and took the title of Lord Mottistone of Mottistone He is Chairman of the National He served with of Mottistone He is Chairman of the National Savings Committee

Sefton Earl of Irish title borne by the family of Molvneux. In 1628 Sir Richard Molyneux was made a viscount, and in 1771 the 9th viscount was made an Irish earl The earl's seat is Croxted Hall, near Liverpool, and his cluest son is called Viscount Molyneux. A residential district in Liverpool, of which the land is the property of the earl, is called Selton Park

Seine River of France It rises near Dijon, and flows in a north-westerly direction, entering the English Channel by an estuary at Havre Commercially the by an estuary at Havre Commercially the most important river of France, it flows past Paris, Rouen and Troyes, among other places Its tributaries include the Marne, the Oise, the Aube, and the Yonne It is connected by canals with the cities of Belguum, the Loire, and the Rhine Its total length is 480 m

Seine Net large numbers of fish such as mackeral, herring, nilchards, bass, efg. The

mackerel, herring, pilchards, bass, etc.

extended net is kept vertical by means of cork | floats secured at the top and leads attached to the bottom, the two ends finally being drawn together, either on a beach or into a boat.

Seipel Ignaz Austrian priest and states man Born in Vienna, July 19, 1876, he was a professor at Salzburg and Vienna Universities The Austro Hungarian monarchy fell in October, 1918, and Seipel became leader Austrian priest and states of the Conservative element He became Chancellor, May 31, 1922, reconstructing the nation, mainly by sound financial measures He resigned in 1924, but took office in 1926, at the head of a Christian-Socialist Pan German coalition, which favoured co operation with Germany, with maintenance of all treaties He died Aug 2, 1932

Seismometer as a seismograph used for detecting and registering vibrations of the earth's crust, and especially those of earth quakes. The apparatus is very delicate and elaborate, and consists essentially of a revolving drum with a small of surface was a which was a small of surface was a shadow of the same of the s drum with a smoked surface upon which pens connected with suspended weights mark in yigzag lines both horizontal and vertical earth tremors In some seismometers the direction of the horizontal movements whether east and west or north and south, also are recorded.

Selangor State of the Federated Malay and Negri Sembilan and has a coastline on the Strait of Malacca. Kuala Lumpur is the capital, and the chief river is the Klang The state is governed by a sultan who is under British protection and who lives at Klang area is 3150 sq m Pop (1931) 533,197

Selborne Village of Hampshire, 5 m from Alton and 52 from Alton and 52 from London, on the S Rly There was an abbey here and the place was once a market town It is chiefly known as the home of Gilbert White, the author of The Natural Hustory of Selborne His house still stands In 1932 the grove here, known as the Selborne Beeches, was presented to the nation by Magdalon College, Oxford

The Selborne Society exists to preserve bird and plant life from destruction It was and plant life

founded in 1885

Selby Urban district and market town of Selby Vrban district and market town of Ouse, 14 m from York, and is served by the LNE Riv and a canal It is an agricultural centre, and has one or two industries as well as a little shipping, as from here the Ouse is navigable Selby is chiefly famous for its abbey thresh a cethedral in view and recentled. church a cathedral in size and magnificence which though damaged by fire in 1906, has since been repaired the central tower having been rebuilt in 1912. The abbey to which it belonged, was a Benedictine house founded in Pop (1931) 10,064 1069

Selden John English jurist Born in 1284 at 22 he brought out his first work, dealing with Britain's civil government before the Conquest, and followed it with a long line of treaties on legal and other topics. He was a member of Parliament for several years and took an active part in public affairs till his death He suffered imprison ment twice once for his share in the drafting of the Petition of Right. He died Nov 30, 1654

Selection Term used by biologists, chiefly in connection with the evolution of man and the lower animals. Natural selection is the process by which nature

provides that the better males shall mate with the best females, the weaker being killed. Combat plays a large part in this process, and so the qualities of strength and courage are perpetuated at the expense of weakness and cowardice Artificial selection is adopted in the breeding of animals, for instance, racehorses

where only the best of each sex are where only the best of each sex are for breeding purposes. See EVOLUTION

Selene in Greek legend the goddess of the moon. She was a daughter of Hyperion, the sister of Helios and Eos, Sun and The goddess level in the second drawn. travelled across the sky in a charlot drawn by two white horses in later days she was

identified with Artemis

Selenium Chemical element having the symbol So and atomic weight 79 2 Selenium was discovered by Berzelius in 1817 in the waste from the manufacture of It resembles sulphur in its sulphuric acid chemical relations, and in having several allotropic forms. Selenium increases its Selenium increases electrical conductivity by exposure to light and therefore is used in such instruments as the optophone, and in types of talking film projection

Seleucia Two cities of the ancient world One was on the Tigris and was important at the opening of and was important at the opening of the Christian era. The other was the port of Antioch Both were built in 300 BC by Seleucus I, King of Syria, a general of Alexander the Great, who was the founder of a dynasty that ruled over Syria and adjacent parts of Asia Minor from 312 to 65 BC, when Syria was conquered by the Romans.

Self-Determination Term mean ing the right of a nation to decide on its own form of govern It was much used during the rearrange ment of territory in Europe that took place after the Great War

Selfridge Henry Gordon American business man Born in Wisconsin, Jan 11 1864, from 1890 to 1903 howas a partner in the great firm of Marshall, bield & Co. in Chicago, end in 1909 sottled in London, where he founded a store in Oxford Street. This became one of the largest concerns Street. This became one of the largest concerns of its kind, and acquired branches in many parts of London He wrote The Romance of Commerce

Seljuk Founder of a Turkish dynasty He was leader of his tribe in Asia about AD 1000, and his descendants became powerful in Asia but after ruling over a great empire which was at the height of its power in the 12th century the Seljuks gradually lost their lands, and disappeared about 1300

Selkirk Burgh and county town of Selkirkshire, 40 m from Edin burgh, by the LNE Rly The manufacture of woolen goods is the chief industry, and the burgh has a racecourse Pop (1931) 5067

Selkirk Range of mountains in British Columbia in the SE of the state Dawson (11,000 ft ) is the highest peak, and there are others over 10 000 ft. high Roger's Pass in the mountains is crossed by the Range of mountains in British CP Rly

Selkirk Alexander Scottish soilor and went to sea as a boy In 1703 he went to the South Seas under William Dampier, but for insubordination was put ashore at Juan Fernandez. He was there for over four years and from his stay Defoe obtained the idea for

Robinson Crusoe After he had been taken off nutritive value, and is used in the manufacture the island Selkirk returned to the sea, and he of paste foods such as macaroni died at sea Dec 12, 1721

Sen Japanese coin It is the 100th part of

Selkirkshire County of SE Scotland Selkirk is the county town, but Galashiels is larger It is a hilly district famed for its beauty. and was once covered by the forest of Ettrick The rivers are the Tweed and the Yarrow, and among the lochs is the picturesque St Marv's It has many historic buildings and was the scene of much border warfare, some of it immortalised by Scott Sheep rearing is the chief industry Pop (1931) 22,608

Selle River of France which rises near Le Selle Cateau and flows N into the Schelde The Battle of the Selle was fought in the Great War, Oct 17 to 25, 1918, between the British-American forces and the Germans, and resulted in a victory for the Allies, remarkable for the number of guns captured

Selous Frederick Courtney British ex-plorer and big-game hunter Born in London, Dec 31, 1851, he was educated at Rugby and in Germany He began his explorations in 1871 hunting over large tracts of practically unknown territory in Southern Africa In 1890 he acted as guide to a British Africa Company's expedition to Mashonlind Africa Company's expedition to Mash-onaland, his travels being described in Tucnty I'cars in Zambesia, and he took part in and wrote an account of the first Matabele War (1892) He was killed in the East African campaign, Jan 4, 1917 His extensive collec-tion of trophies is in the National History Museum, London

Watering place of Sussex is 8 m from Chichester and 77 from London, and is reached by railway of motor coach from there It is now a popular centre for holiday makers

the end of the peninsula The older Selsey, now under the sea, was the seat of the Bishop of the South Saxons until 1075

Selston Town of Nottinghamshire. It is stations on the LNE and LNE Rlys The staple industry is coal mining Town of Nottinghamshire. It is

Semaphore Signahing apparatus used chiefly on warships and consisting of an upright post with two arms turned on pivots by means of levers or cords The different positions of the arms indicate on railways are also a form of semaphore adapted to railway signalling

Semiramis Legendar, founder, with her husband Ninus, of the Assyrian Empire of Nineveh She is sometimes regarded as another manifestation of the goddess Astarte, delty of fertility, and the whole story has an Eastern flavour. Her reign lasted forty-two years, and eventually she abdicated in favour of her son, herself flying up to heaven as a dove

Semite Name given originally to any descendant of Shem Noah's son The anthropological classification is made more by language than by race, and includes Arabs and lews of modern races, and Phoenicians and Sabacans of ancient races. The lowish nose, generally regarded as typically Semitic is not ically so, since the Jews are of mixed race. The true Semitic nose is straight or aquiline

Semolina Cereal food made from the coarse particles of wheat produced during grinding. It has considerable

Sen Japanese coin It is the 100th part of a ven, and is worth about a farthing It is coined in 10, 20, and 50 sen pieces

Senate Governing body of Rome, which members all patricians As time passed this number grew until it reached 900, and wa-then fixed by Augustus at 600 Members who were considered unfit for their office could be deprived of it by the Censor

In the modern world the name Senate has been adopted by various states for the upper houses of their legislatures In the United States the Senate is the second chamber, and has existed since the foundation of the republic The French Senate also the second chamber dates from 1799 South Africa and Australia have Senates formed by a given number of representatives from each state

The word is also used to designate the governing body of a university or other learned institution

Seneca Lucius Annaeus Statesman and philosopher He was born in Cordova c 4 R c and studied philosophy and rhetoric in Rome Entrusted with the education of Nero by Agrippina, his mother, he exer cised for five years an excellent influence over his pupil, but unfortunately this did not last and as emperor Nero tried to poison him Later, found guilty of conspiracy, he was condemned to death AD 65 Seneca was one of the noblest characters of his times. He was the author of several tragedies, Oedipus, Medea, etc, and many philosophical dissertations.

Senegal French colony in W Africa It covers 74,112 sq m The capital is St Louis and Dakar and Rufisque arc important towns Agriculture is the principal source of wealth The main export is ground nuts with hides and rubber export is ground source of wealth The main export is ground nuts, with hides and rubber secondary. The colony is administered by a lieutenant governor,

colony is administered by a neutenant governor, and sends a deputy to the Chamber of Deputies in Paris Pop (1931) 1 534,273

Senegambia Name no longer in use region in West Africa lying between the Senegal and Gambia rivers. The area is now Schegal and Gambia rivers. The area is now divided into French Guinea, Senegal and Upper Senegal and Niger

Medicinal shrubs and herbs of the Senna natural order Leguminosae. The drug, useful as a purgative is made from the dried leaves. The plants grow mainly in tropical climates and of the several different varieties Cahasua acutyfolia or Alexandrian senna, provides the best quality. The seed pods are used as a laxative

King of Assyma Sennacherib reigned about 702-681 no Events during his reign are somewhat obscure but we know that he conquered Phoenicia rayaged Judaea and unsuccessfully besieged Jerusalem He was responsible for besieged Jerusalem He was responsible for great public works, such as an embankment along the Tigris the building of many canals and the erection of an enormous palace at Nineveh He was murdered by his two sons

Sennar District of Sudan, Iving N W of Abvesinia, below Khartum The capital is Singa Sennar is another important Here there is a great dam opened in 1926 to control the irrigation of that part of the country over an area of some 3,000,000 miles 9925 ft. long it is known also as the Makwar dam

Sensitive Plant Tropical American herbaceous perennial (Mimosa) of the order Leguminosae It is sensitive to contact, and the leaflets into which the leaves are divided fold together at the slightest touch, the stalk drooping Mimosa is cultivated as a hot house plant.

Senussi Moslom sect, whose original headquarters were at Alexandria It was founded in 1835 by Sidi andria it was founded in 1835 by Sidi Mahomed ben Ali es Senussi, who died in 1859 Its tenets are an attempt to return to the simple doctrines of the Koran The sect has been in collision with the French authorities from 1902 onwards During the Great War there was a rising which was finally put down in 1916 by British and Italian troops

Sepal Botanical term for the individual leaves of the calyx or outer whorl of a flower Usually the sepals are green and serve to protect the young flower in the bud In some cases the calvx may be coloured like the petals, or may persist as a silky pappus of

hairs for seed dispersal

Separation In law a separation of husband and wife. They may agree to live apart from each other, a deed of separation thereupon being drawn up A judicial separation is a decree of the high court granted on proof of cruelty or adultery court granted on proof of crueity or additory or of desertion for two years or more, or upon failure to obey a decree of the court for rest tution of conjugal rights A magistrate's separation order may be granted to a married woman if her husband is convicted of assault upon her, or is guilty of persistent crueity or wilful neglect to provide for her or her children or if he has desorted her. An order may he or if he has deserted her An order may be made for the payment of a weekly sum for maintenance Habitual drunkenness on the part of either husband or wife is a ground for a separation order against the offending partner

A separation allowance is money paid to the wife or other dependents of a soldier or sailor

on active service

Sep1a Generic name of the cuttle fishes, allied to the octopus The calcareous internal shell or "bone" has various economic uses, and the ink bag was the original source of the transparent brown pigment known as sepia. This pigment, however, is now made usually from the juice of walnuts

Indian soldiers in regiments com word comes from the Persian sipali (army), and is allied to the French spahi. Sepoy regi ments were first employed in Europe during the Great War in 1914 Among the best known are the Gurkhas, the Sikhs, and the

Pathans

Sepsis Infection of a wound or other bodily surface by pus forming organisms a condition ranging from a gathering

to general septicaemia

Adjective applied to a condition Septic Septic where sepsis (qv) is present Antiseptics are remedies against already existent sepsis Asepsis is the elimination of all possible bacteria before an operation, ic, surgical cleanliness

Septuagesima Word derived from a Latin word meaning seventieth Septuagesima Sunday is the third Sunday before Ash Wednesday

Septuagint Greek translation of the Old Testament (known by the symbol LXX) It is traditionally ascribed

to 70 or 72 scholars working under the patronage of Ptolemy Philadelphus at Alexandria in the first half of the third century B C There is no reason to doubt this tradition so far as it applies to the Pentateuch The remaining books were translated at various unknown periods during the next 150 years

Sequestration Depriving a person of property by legal means It is used in Scots law for taking possession of the property of a bankrupt in the ecclesiastical law of England, if the incumbent of a living owes money a writ of sequestration can be obtained—this enables the bishop to take possession of the income of the living and to are the observed.

the living and to pay the debts

Sequoia denus of the Conjerae, found on comprising the red wood of California (S sem pervirens) and the 'big trees' of the Sierra Nevada (S gigantea) Thoy grow to 300 ft. or over, the latter having an enormous trunk Some trees are estimated to have been over 3000 years old when felled

Serajevo Now more usually spelt Sarajevo or Sarayovo, a city of
Yugoslavia It is situated on the Miljacka
and is connected by rail with Belgrade 122 m
away The principal industries are silkweaving, dyeing, and pottery Here the
Archduke Francis Ferdinand of Austria and
his wife were assassinated in 1914, an event
which precipitated the Great War Pop (1931)
78,182

Seraphim Angelic beings, in constant attendance upon Jehovah Isalah in the vision told of in chapter vi of his book describes them as having three pairs of wings each The same word in the Hebrew is sometimes translated as serpent therefore possible that the original conception of seraphim may have been connected with scrpent worship

Serapis centre of worship was at Alex-Graeco Egyptian deity andria He seems to have been the Greek manifestation of the Eryptian god Apis assimilated to Osiris and to have symbolised fertility fertility He was generally represented as a bearded figure with a basket on his head

Serbia Name formerly given to a king-serbia Name formerly given to a king-dom which now forms the eastern part of Yugoslavia It is 36,037 sq m in area. An empire of considerable extent in the Middle Ages Serbia fell under Turkish domination after the battle of Kossovo (1389) Nineteenth century nationalism led to a movement for independence, ultimately successful in 1878. independence, ultimately successful in 1878, and the kingdom was considerably enlarged after the Balkan Wars of 1912 13 Serbia took part in the Great War on the Allied side, was defeated and overrun On the conclusion of peace in 1918 the reconstituted Lingdom was united with Montenegro and became the

principal part of Yugoslavia (qv)
Sergeant Non-commissioned officer of
the British Army The sergeant-major is the senior regimental non-commissioned officer In the police force sergeant is the rank between constable and inspector

Serjeant-at-Arms Officer of the Houses of Parliament. He is usually the mace bearer and his duty is to precede certain dignitaries. Thus a serjeant-at-arms precedes the Lord Chancellor, bearing the mace and another precedes the Speaker. He is also charged with the enforcement of order and discipline

Serjeant-at-Law Until 1880 the highest class of highest class of highest class of highest class of highest Serjeants' Inn in Fleet St. London, was the property of the Serjeants-at-Law until 1877. They had the monopoly in the court of common pleas until 1845 and wore a kind of labrication, and illumination skull cap as distinctive badge

Form of land-holding under the feudal system land-holding Serjeanty Service was rendered to the overlord in return for tenure This was not knight-service, but consisted of some kind of household service Such tenure was midway between the tenure by knight-service and that of socage It was by knight-service and that of socage

by knight-service and that of socage It was divided into grand and petty serjeanty according to the type of duty performed Serjeants' Inn Two former Inns of Old Serjeants' Inn stood at the corner of Chancery Lane, near Chifford's Inn The other, whose name still remains, though since 1877 no longer an inn, is a court off Fleet Street, now occupied by insurance companies and other offices. other offices

Serpent Name applied to the reptiles of the order Ophidia, comprising the snakes Popularly, it denotes the larger

species

The serpent cult is found in many countries, and is very ancient. It was prominent among Semitic peoples and the Greeks had the cult of Aesculapius, the deity of healing, in whose temples was a living serpent. The brazen serpent of Moses was a healing medium, and the symbolic association of the serpent with healing has persisted to modern times, the badge of the R.A.M.C., for example, being Aesculapius' symbol, the staff entwined by a serpent.

Serpentine Name of a mineral consisting of magnesium silicate, and regarded as a decomposition product of igneous rocks rich in ferro-magnesian silicates Serpentine occurs in massive form, often as rock-masses, and varies in colour from green to black, usually with veins or spots of red, blue, green, etc. It is soft, easily worked, and from early times has been used for orna-mental purposes, a well-known example being the serpentine from the Lizard, Cornwall

Serpentine The Artificial stretch of Water in Hyde Park and Kensington Gardens It was made by the order of Queen Caroline in 1730, the Westbourne river, or stream, forming a series of ponds here, which were connected to form the Serpentine In 1834 the Westbourne having greatly decreased. Serpentine In 1834 the Westbourne having greatly decreased in volume, the supply of water had to be supplemented from the Thames, as it is to this day

Serum Term given to the plasma or watery fluid portion of the blood that separates out as the result of congulation The plasma holds, in solution, mineral saits, albumins, globulins, and extractives, as well as fibringen upon which depends coagulation of Various anti-toxic serums are the blood prepared for use in the treatment of diseases

Servant Person who works for another for payment, often called an employee The relations between master and sorvant, or employer and employed, are regulated partly by law and partly by custom A servant must be insured against ill-health and, in some cases, against unemployment,

Sesame Annual herbaceous plant of the genus Sesamum, being the most important species (S indicum) It is cultivated

Session Literally, a sitting It is applied to the sittings of the Parliament of Great Britain, and to those of other legislatures A parliament consists of a number of sessions, each opened by the King or his

representative and terminated by a proroga-tion It is finally ended by a dissolution

The kirk session is the term used in the
Church of Scotland and other Presbyterian
churches for the meetings of the minister and

elders of an individual church

Session Court of In Scotland, the supreme court of law It deals with civil cases only and sits in Parliament Square, Edinburgh Its judges are senators of the college of justice, and are given the title of the college of justice, and are given the title of lord. They sit in two houses, inner and outer, the inner heing a court of appeal from the outer. The inner house sits in two divisions, presided over by the lord president and the lord justice clerk respectively, there being four judges in each. The remaining five judges form the outer house

Sessions In England, sittings of the lower courts of law The judges are the magistrates, except that the recorder presides over quarter sessions in the towns Petty sessions are held by two or more magistrates for dealing with minor offences, quarter sessions are held in the counties and in certain cities and towns for hearing more serious cases There are also special sessions for licensing and other matters

Sesterce Ancient Roman coin Worth about 21d It was used as the unit for stating sums of money means "two and a half" The name

Setter Large type of dog, used as a gun dog There were originally two species, the pure white English setter and the chestnut brown Irish setter From these was evolved a black and tan setter. first known as the Gordon setter, from the Duke of Gordon who bred it, but now officially designated the Bluck-and-Tan setter Two other breeds are recognised, though uncommon—the Russian setter, with a thick, woolly coat, and the Welsh setter, with a curly coat

Settle Market town of Yorkshire (WR.) It is situated on the Ribble and served by the LMS Riy It is a good centre for people wanting to tour the neighbouring hill and caves, and has some small industries Pop 2389

Settle Piece of furniture consisting of a long wooden bench with a high back, seen commonly in old inns and country houses. It was usually made of oak, and in some early examples was carved elaborately

Settlement Disposal of property in that different persons are entitled to enjoy it that different persons are entitled to enjoy it in succession An example is a marriage settlement, which creates a trust for the benefit (a) of the husband and wife during their joint lives, and the life of the survivor, (b) gives the income then to the issue of the marriage, and (c) directs the further disposal of the property thereafter Property must not be tied up for an unlimited series of succes-sions and the law provides that the settlement sions, and the law provides that the settlement must give possession absolutely to someone

within a period comprising a life in being

and a further period of 21 years
Settlement Act of Measure enacted
by Parliament in 1701 Measure enacted It settled the crown on Sophia, wife of the Elector of Hanover, and the heirs of her body, being Protestants She was a grand daughter being Protestants She was a grand daughter of James I, and her son George, Elector of Hanover, became George I of Gt Britain in 1714 Other clauses declared judges irremovible as long as they did their duty and made the consent of Parliament necessary for the declaration of war in defence of territories not belonging to the crown of England.

Sevastopol (or Sebastopol) Seaport of Russia It is built on the rulns of the old Sevastopol, destroyed during the siege (1854 55), which formed one of the thief opisodes of the Crimean War (qv) To day it is a popular watering place and also a grain port. It has a good harbour, and the principal industries are shipbuilding and wine making There is a broadcasting station (476 M. 12 kW) Pop 74,703

Seven Dials District of London, so called because seven

streets meet here It lies between St Martin's Lane and New Oxford Street, and had at one time an unpleasant reputation Modern im provements street widening, etc., have altered the character of the region, which now contains theatres, restaurants and pleture houses.

Seven Kings District of Essex, Street station, by the LNE Rly It is mainly a residential neighbourhood and forms part of Great Hord The population is 10,000

Sevenoaks Urban district and market town of Kent. A residential centre, 22 m from London, by the Rly, it has a grammar school, founded in 1432, and a fine church with some interesting monuments. There is a famous cricket ground, the Vine, believed to be the eldest in England Pop (1931) 10,482

Seven Weeks' War War fought in 1866 be tween Prussia (in alliance with Italy) against Austria It resulted in the foundation under Prussian leadership of a new Gormany, from which Austria was excluded, and the cession of Venetia to Italy Prior to the war the diplomacy of Bismarck had isolated Austria while Moltke and Roon had perfected the Prussian army The declaive defeat of the Prussian under Brondel test release at Sedement Austrians under Benedek took place at Sadowa

for Königgr tr) on July 2

Seven Wonders of the World In the ancient world seven works of man held to be supremely marvellous They were the Colossus of Rhodes, the hanging gardens of Babylon, the Pharms at Alexandria the Premise of Early to the Colossus of Rhodes, the hanging gardens of Babylon, the Pharos at Alexandria, the Pyramids of Egypt, Pheldias statue of Jupiter at Olympus, the temple of Diana at Ephesus, and the mauso leum at Halicarnassus

Seven Years' War War from 1756 to 1763 by an alliance of Austria France and Russia against England and Prussia (under Frederick the Great) It had two aspects (1) colonial arising out of Anglo French rivalry for colonics and trade areas in America and India (2) continental, due to the struggle between Austria and Prussia for Silesia Both Britain and Austria suffered reverses at first, but under the energetic leadership of Pitt, the former soon began to gain the upper hand, and

1759 was a year of many victories, including the capture of Quebec by Wolfe The war resulted in the ceding of Silesia to Prussia and of Canada to Britain the foundation of the British Indian Empire and the establishment of her naval supremacy

Severn River of Britain Rising on the slopes of Plinlimmon, Mont gomeryshire, it flows into the Bristol Channel with a course of 210 m A tidal bore prevents navigation for some miles from the mouth Cities on its banks are Gloucester and Wor cester, and its principal tributaries are the Wye, the Aven, and the Teme, on the second of which Bristol is situated Fine salmon are caught in the river the Roman name for which was Sabrina The Severn tunnel, between Bristol and Cardiff is over 4 m long

Severus Born A D 205, he was cousin of the infamous Heliogabalus, whom he succeded Brought up by a wise mother, he was virtuous in an age when vice reigned almost supreme, and although a pagan he respected the doctrines of Christianity He was success ful in an expedition against the Persians, but when he marched to Germany to defend the Roman frontier against the incursions of the Germans, both he and his mother were mur dered during an insurrection among his troops in A D 235

Severus Lucius Septimius Roman em peror Born in Africa A D 146, he was made Roman praetor in 178, and after the murder of Pertinax (193) was proclaimed emperor, ruthlessly crushing opposition. He conducted a long and successful campaign in the cast, which included the 3 years slege and capture of Byzantium, he then overcame the Parthians, plundering their capital, Ctesiphon Going to Britain in 208 to crush a robellion, he repaired and added to Hadrian's wall, and died at Eboracum (York) in 211

Sévigné Marie de Rabutin Chantal Mar-quise de Fronch letter writer Born in Paris, Feb 5, 1626, she was one of the most distinguished characters of her century, best known for her wonderful Letters to her daughter, the Countess of Grignon She married in 1644 the Marquis Henri de Sévigné, a typical reprobate of his age, and was widowed after seven years Beautiful in appearance, fascinating in manner, she was a contral figure in society, and it is said of her that she remained pure in an age when purity was rare died April 17, 1696

Seville City and province of Spain The city stands on the Guadalquivir, The and is one of the most important and inter-esting in Spain Much of the original Moorish city remains, and it has wonderful buildings and monuments The cathedral with its famous Giralda tower is Gothic and stands on the site of a Moorish mosque Here also is the old Moorish palace, the Alcazar, and a notable university The history of Soville dates back to Phoenician times, and the place is still prosperous, though Cadiz has now superseded it as a port Manufactures include checolate. soap perfumes, and sills, while wine and oil are largely exported Thore is a broadcasting station (368 1 M., 1 5 kW) Pop 231,049

Sèvres Town of France, situated on the Seine in the department of Seine-et Oise 1t is mainly noted for its Scine-et Oise famous porcelain factory established in 1756 Pop 7240

hy drains to the sewer system, and thence to a disposal works, where it is treated and purified and the effluent rendered fit for discharge into a river or the sea, or for use as a fertiliser Methods of achieving this include chemical or bacterial treatment, by which the solids are precipitated or the sewago decomposed, and a system in which the more heavy portions settle by gravitation. In the absence of a sewer system the sewage is treated in septic (bacterial) tanks, or collected in cesspools A process of decomposition goes on in the latter, so that the solids are gradually liquefled

Sewing Machine Machine devised for sewing and stitching cloth, leather and other materials by mechanical power In 1846, Elias Howe invented the lock stitch sewing machine, and further improvements upon this type were introduced later by Wilson and Singer In the ordinary sewing machine the material placed upon a steel plate moves forward automatically as each stitch is made by an eye-pointed needle, the latter forming a loop as it passes through the material Special types of machines are used for stitching leather and other tough material Sewing machines can now be

material Sewing machines can now be worked by electricity

Sex Term expressing the male and female Sex qualities exhibited in most organisms, both plant and animal The germ cells of the two sexes differ in character In the male they are spermatozoa in animals, antherozoids in the lower plants, and in the female ova or egg-cells. In most animals there are further differences in the form and size of the body, functional and mental qualities, and in the minute structure of the germ cells themselves In many of the lower animals, both male and In many of the lower animals, both male and female germ cells are present in the same individual (hermaphrodite) In others, as in the aphis, parthenogenesis, or development of an individual from an unfertilised egg, occurs

Sexagesima Church festival The Latin for sixty, Sexagesima Sunday is the second before Lent, i.e., about sixty days before Easter

Sextant Optical instrument used in navigation for measuring angular distances between objects at a distance, particularly the altitude of the sun at noon for calculating the ship's latitude. It consists of a graduated are representing a sixth of a circle, a telescope for sighting a distant object, a mirror at the centre of the circle and attached. a mirror at the centre of the circle and attached to a movable arm bearing at its end an index which moves over the graduated scale, and also a fixed half-silvered mirror

Seychelles Group of islands in the Indian Ocean, belonging to Great Britain since 1794 Having a total area estimated at 156 sq m there are 101 islands and islets, Mahé being the principal The main product is coconuts, while cinnamon and certain essential oils are also important. Victoria, the capital, has a good harbour Some of the islands have phosphates deposits In 1931 the population was estimated at 27,786

Seymour English family, whose present representatives are the Duke of Somerset and the Marquess of Hertford The name was originally St. Maur, and continued so until the time of the father of Lord of Somerset and the Marquess of Hertford The name was originally St. Maur, and continued so until the time of the father of Lord Protector Somerset, the first Duke of Somerset Somerset (1851) 2500

Shaftesbury Earl of English states Cooper was born at Wimborne, St. Giles, Dor-Protector Somerset, the first Duke of Somerset (1851) 2500

Cooper was born at Wimborne, St. Giles, Dor-Protector Somerset, the first Duke of Somerset (1851) 2500

Sewage House refuse carried by sewers of the new creation, whose sister was the third in urban areas sewage is carried wife of Henry VIII, and the mother of Edward VI He himself was Earl of Hertford before he became Duke of Somerset, and a descendant received the title Marquess of Hertford in 1793

Sgraffito Term applied to a form of mural decoration in which a coat of coloured plaster is covered by one of white, the design being made by cutting or scratching through the top layer, showing the coloured coat underneath A similar process is followed in certain forms of pottery with clays of different colour

Shackleton Sir Ernest Henry English Shackleton explorer Born in Kilkee, Ireland, Feb 15, 1874, and educated at Dulwich College, he entered the mercantile marine. He accompanied Scott in his Antarctic expedition of 1901 04 In 1908 he sailed from New Zealand in the Numrod, in command of an expedition which reached within 100 m. of the South Pole, being knighted on his return In 1914 16 he made an unsuccessful attempt to cross the Antarctic continent, and in 1921 he again set out in the Quest, but died of heart disease in South Georgia, Jan 5, 1922 He wrote The Heart of the Antarctic and South

Shad Name of three food fishes, all belonging to the genus Clupea The Ameri can shad is found in the seas and some of the rivers of N America. The allice and the twaite shad are found in the waters of Great Britain and other parts of Europe, also in the Nile

Shaddock Large, thick-skinned fruit, more usually known as grape fruit (qv) The botanical name is grape fruit (q v ) Citrus decumana

Shadow Dark area on a surface formed shadow by a shadow cone when an opaque body is placed so as to intercept the light from a luminous point When the body is spherical and the source of light is a

body is spherical and the source of light is a luminous body, then a cone of total shadow or umbra is formed, surrounded by another cone of partial shadow or penumbra, as seen in the partial and complete shadows cast by the earth upon the moon

Shadwell

District of East London It is a dock district, part of the borough of Stepney There is a tunnel under the Thames from here to Rotherhithe opened in 1908

The East London Hospital for Children is in Shadwell for Children is in Shadwell

Shaft In mechanics a means of transmitting power It consists usually of a cylindrical bar of steel or wrought iron, provided with wheels, pullers, levers, etc in architecture the term is applied to the part of a column between the capital and base In mining a shaft is the well-like excavation communicating with the underground workings of a mine In prospecting one or more trial shafts are sunk to obtain the direction of the lode followed by a permanent shaft which is vertical except where the lode is much inclined From the main shaft cross-cuts or levels are cut to intersect the lode

Shaftesbury Market town of Dorset, bury, and 28 from Dorchester The station is Semley, on the S Rly, but coaches for Plymonth call here Said to have been founded by King Alfred, it is an agricultural centre Pop. (1931) 2366

He entered the Short Parliament in 1840, and was appointed a member of Cromwell's Council of State, 1654 Later he rejoined the Royalists, and was appointed Chancellor of the Exchequer in 1661, and Lord Chancellor in 1672, when he was also created Earl of Shaftesbury He died on Jan 21, 1683

Anthony Ashley Cooper, the 3rd earl, was born in London, Feb 26, 1671 He was educated under the philosopher Locks (qv) and at Winchester, and travelled abroad from 1686 89 From 1695 98 he sat in parliament and in 1699 succeeded his father as earl Poor health keeping him out of politics, he devoted himself to philosophy As a moral philosopher he stressed the value of beauty and harmony in both private and social life The Moralisis is his most important work He

philosopher he stressed the value of beauty and harmony in both private and social life.

Moralists is his most important work. He died Feb 4, 1713.

Anthony Ashley Cooper, the 7th earl, was born April 28, 1801, and educated at Harrow and Oxford Entering parliament in 1826, he devoted himself to improving the conditions of the working classes, and was largely responsible for much factory legislation, including the Ten Hours' Act of 1847 Legislation on coal mines also occupied him and he investigated slum conditions in London, and helped to establish the ragged schools, of whose union he was president for 40 years. He helped to found reformatory and refuge unions, young men's Christian associations and workmen's institutes, and was interested in foreign missions. He died Oct 1, 1885.

Shagreen Name given to a kind of untanned leather having a granular surface, which in the case of horse and ass skins is produced by the pressure of seeds on the moist skin When made from shark or ray skins, the nodules are natural Shagreen is used for covering small articles, and particularly sword hits

Shakers Religious sect Founded by Ann 1772 and settled at New Lebanon, New York. They were derived from the Quakers, their full style being the Milennial Church, or the United Society of Believers They exalt cellbacy, practise auricular confession, and use dancing as a form of worship, the contortions they use in this exercise having given rise to the name of Shakers

Shakespeare William The world's poot and dramatist He was born at Stratford on Avon on or about April 23, 1564, and at the age of 18 married Anne Hathaway some eight years his senior There were three children of the marriage the son Hamnet, died in childhood, while Susanne and Judith, the two daughters, surrived their parents

Shakespeare went to London about 1587, leaving his wife and family in Stratford and was attracted to the theatre From holding the heads of playscors horses, he graduated through the posts of actor and patcher of old scripts to the position of playwright, poet and part owner of the Globe Theatre at Bankside, southwark

He was a contemporary and friend of Ben Jonson, and also met Greene Marlowe, Dray ton and other literary men of the time In skill and power of writing he excelled not only his contemporaries, but all previous poets and dramntists of this or any other nation. His vocabulary was wider than that of any other writer, and his power of language, his theatrical technique and his knowledge of essential human

nature have made him, in Ben Jonson's words, "not of an age, but for all time" Emerson describes him as "master of the revels to mankind"

His collected works, as published to day, contain 37 plays, 2 long poems, and 154 sonnets, as well as other items of verse. The plays are divided into 17 comedies, 10 histories and 10 tragedies. The long poems are Venus and Adons (1593) and The Rape of Lucrece (1594), while of the sonnets, the first 126 are indited to a beautiful young man—some say, the Earl of Pembroke,—and the rest to a certain dark lady," identified by many as Mary Fitton, Maid of Honour to Queen Elizabeth.

As Shakespeare s plays did not appear complete in print until the folio edition of 1623, it is not possible to fix, without question the dates of the individual plays The following list—though not accepted by all—shows the order in which the plays probably appeared

Love a Labour's Lost

TO 10 S TROUGH S TOTAL	IDDO
King Henry VI. Part I.	
Do do II }	1590-92
Do. do IIL	
The Comedy of Errors	1591
Romeo and Juliet	1592
Two Gentlemen of Verona	1593
A Midsummer Night a Dream	1594
King Richard II.	
Do. III.	1593 94
King John	1594-95
The Taming of the Shrew	1595 96
The Merchant of Venice	1596
King Henry IV Part L	
Do. 10. II.	1596-98
King Henry V	1598-99
The Merry Wives of Windsor	1598
Huch Ado About Nothing	1598-99
As You Like It	1599
Twelfth Night	1600
Julius Caesar	1600-01
All a Well That Ends Well	1001-02
Hamlet	1602
Troilus and Cressida	1603
Othello	1604
Measure for Measure	1604
King Lear	1605-06
Macbeth	1005-06
Pericles	1607-08
Timon of Athens	1607-08
Antony and Cleopatra Coriolanus	1608
	1609
Cymbeline	1609-10
A Winter's Tale	1610 11
King Henry VIII.	1611 19
The Tempest	1611

Titus Andronicus was written either in collaboration with others or entirely by some other hand.

Shakespeare's histories give a clear picture of three hundred years of our island story, his comedies range from broad farce through fairy revels to delicate and subtle comedies of manners, while his tragedies culminate in the most powerful dramatic works of the world's literature, in Hamlet, Othello, Macbeth and King Lear

Shakespeare's knowledge was all-embracing, his sympathy profound and his understanding of human nature in all its moods uncanny in its accuracy. He basked in the favour of Queen Elizabeth and her successor, King James I, and after 1611 or 1612 ceased to write, retiring to his house, New Place, Stratford, where he lived the life of a country gentleman until S George's Day, April 23, 1616, when he passed away. He is buried in Stratford on-Avon church

The new Shakespeare Memorial Theatre at Stratford on Avon, built with funds subscribed by English speaking people all over the world, was opened by HRH the Prince of Wales, on April 23 1932

Shale Laminated rock. Shales vary greatly in character, some approximating to clays, others to sandstones, ilmestones or

slates Bituminous shales are worked for oil, 1841 alum shales for alum and copperas, and clay a con shales for firebricks

SHALLOT

Shallot Plant of the onion family, Allum bulbs are rather lighter in colour and less strongly flavoured than ordinary onions. They are largely used for pickling

Shangani River of Rhodesia, a tributary of the Gwai, which is itself a tributary of the Zambezi It was the scene of a British defeat on Dec 3, 1893, when a small force under Major Allen Wilson was destroyed by a Matabele force

Shanghai Seaport of China, on the wince of Kiang Su, the most important of the Treaty ports It has an immense export trade, principally in silk and tea, followed in order by cotton, sugar, hides, and wool There are also shipwards and docks in Pootung, a suburb across the river The native city was captured by the Red army in 1927 The European and is quarter covers more than 9 sq m and is the commercial centre, with a fine harbour Pop 3,259,114

Shanklin Urban district and watering Beautifully situated on the SE coast, on a hillside, and with the downs at the back, Shanklin has been a popular resort since the middle of the 19th century On the S Rly, the crossing is made from Portsmouth to Ryde There is a temporary and also medicinal There is a famous chine here, and also medicinal springs and baths Pop (1931) 5071

Shannon River of Iroland, dividing Connaught from Leinster and dividing Munster It is 254 m long and flows into the Atlantic at Loophead, and is navigable for fair sized vessels up to Limerick, while smaller craft can go as far as Athlone The waters have been harnessed to work a powerful hydroelectric plant which supplies nearly the whole of the Irish Free State

Shannon Sir James Jebusa Anglo American painter Born at Auburn, NY, in 1862, he came to England in 1878, studying in the South Kensington Art School He made his name with the portrait of Hon Horatia Stopford in 1881, and became ARA in 1907 and RA in 1909 He painted some 400 portraits before he died, March 6,

Shap Urban district and market town of Westmorland, 270 m from London, and 12 from Penrith, on the LNE Rly There are granite quarries in the neighbourhood Shap Wells, 4 m away, has saline springs Pop (1931) 1227

Shark Large carnivorous sea-water fish allied to the dog-fish. The larger sharks inhabit warm seas, where they are common and generally lie near the surface. The lower law is exceedingly powerful, the mouth being large and provided with rows of sharp teeth which are replaced as they wear out. Being powerful swimmers and veracious they are a serious depress they here a serious depress to be these feeders, they are a serious danger to bathers, or to shipwrecked persons. The man-eater approaches 40 ft in length, while the blue and the white sharks span up to 18 ft. Sharreen (q v) is the prepared skin, and oil is obtained from the liver

1841 It has iron and steel industries and a considerable trade in coal Pop 25,908

Sharp in music, a natural note raised by a semitone The sign to indicate the change is

Shaw Market town of Lancashire, on the Boal, 3 m from Oldham It is a cotton manufacturing town Pop 5000

Shaw George Bernard Irish dramatist Born in Dublin, July 26, 1856, he worked for a time with a Dublin land agent and came in 1876 to London, where he struggled with little success as a journalist for nine years Between 1879 and 1883 he wrote five novels, Between 1879 and 1883 he wrote five novels, including Love Among the Artists, Cashel Byron's Profession and An Unsocial Socialist, none of which were accepted for publication. He had become a socialist in 1882 and he now began work as a musical, literary and art critic for the Star, Pall Mall Gazette and The World, and later as dramatic critic of the Saturday Review Meanwhile he acted as a propagangist for socialism, having inined in Salurday Review Meanwhile he acted as a propagandist for socialism, having joined, in 1884, the Fablan Society, for whom he wrote tracts, and he became known as a brilliant debater, but not as an author, though he had already written The Perfect Wagnerule, The Quintessence of Ibsenism and four plays

Quintessence of Ibsenism and four plays
Shaw now began to publish his plays, with
their famous prefaces on social, religious and
biological topics Of his early plays Mrs
Warren's Profession (1893) was banned until
1902, while Candida (1894) won success in
Germany His first stage success was with
Man and Superman (1903), followed by John
Bull's Other Island, The Doctor's Dilemma,
Getting Married, Androcles and the Lion,
Pygmalion, Fanny's First Play and others
His three greatest plays Heartbreak House,
Back to Methuselah and Saint Joan, were all
written after he was sixty The Apple Oart
was produced in 1929 and Too True to be Good
in 1932 In 1936 The Millionairess was produced in Vienna Shaw also wrote The Intellgent Woman's Guide to Socialism and Capitalism gent Woman's Guide to Socialism and Capitalism

The plays, which are brilliant in dialogue. have qualities of wit epigram and hyperbole which have come to be known as "Shavian" They expose social wrongs and discuss philo sophical and religious problems The greatest pamphleteer and propagandist of his age, shaw is a critical and stimulating rather than a constructive thinker He was awarded a Nobel Prize for literature in 1926

Shaw Thomas British politician He was born at Colne, Lancashire, April 9, 1872, and received an elementary school education He entered Parliament in Dec, 1918, as member for Preston, became Minister of Labour in 1924, and was Secretary for War from 1929-1931, when he resigned with his colleagues in the national crisis. He was joint secretary of the Labour and Socialist International, 1923-1925, and became a Privy Councillor in 1927

Shawm Obsolete wind instrument it was something akin to the oboe, having a double reed, and was popular in England from the 12th century onwards. It was made in different sizes, each with a compass of an octave and a half The familian use of the word in the Psalms is a mistranslation for shofar, the ritual trumpet of the Hebrews. Obsolete wind instrument

Shear Term in engineering for the strain piece of material is met by elongation at Sharon City of Pennsylvania, U.S.A., on the Shenango River, in Mercer piece of material is met by elongation at Co. It was settled in 1795, and incorporated in right angles. A shearing stress occurs when

forces acting upon a material tend to cause one portion to slide past the other and another form of the stress occurs when a similar sliding

action is caused by twisting or torsion

Sheathbill Bird, Chionis alba, found in
South America It is about the size of a pigeon the plumage is white and the bill yellow or pink in colour The legs are bluish grey A horny sheath encloses the bill A smaller species, C minor, has a black bill and dark legs

Ancient kingdom of Arabia, believed by some authorities Sheba to be the modern Yemen The story of the Queen of Sheba's visit to Solomon's court is told in 1 Kings x, and the original Menelek, King of Abyssinia, is said to have been her son by Solomon Sheba produced the finest spices, and was famous for its gold and gems

Shechem Town of Ephraim, now called Nablus A battle was fought here in Sept. 1918, in which the British, under Lord Allenby defeated the Turks and here in Sept. 1918, in which the British, under Lord Allenby defeated the Turks and as a result completed the conquest of Palestine

DREE SIR Martin Archer Irlsh painter Born in Dublin Dec, 1769, at 16 he became famous as a portrait painter Settling in London in 1788, he became A R.A in 1798, R A in 1800, and succeeded Lawrence as President of the Royal Academy in 1830, in which year he was knighted. He died Aug 13, 1850

Sheen East. Village of Surroy, near Richmond It is in a residential district, surrounded by the open country of Richmond Park, Palewell Common, and Sheen Common Its proximity to the Thames forms

an added attraction

Ungulate mammal of the genus Sheep Wild sheep are found in Europe Asia, Africa, and North America but one species only in each of the last two continents. The domesti cated breeds are grouped according to the type of wool yielded Long wool breeds in Leicester, clude Cotswold Devon, Kentish, Leicester, Lincoln, Roscommon, and Wensleydale short Lincoin, Roscommon, and Wensieydale short wool the Clun Forest, Dorsct, Hampshire, Oxford, Rycland, Shropshire, Southdown, and Suffolk breeds Mountain breeds include Black face Cheviot, Exmoor, Herdwick, Lime stone Louk, and Welsh They are horned, as are also the Dorset short wool sheep, but the others mentioned are ordinarily devoid of horns. Exwee hear the first lambe at 2 years. of horns Ewes bear the first lambs at 2 years old, in Britain during winter, from October to April, according to the variety See MOUFFLON

Sheep-dog Breed of dog It refers to the bob talled Old English sheep dog It is also a useful breed for gun work, and good in the water, while as a pet its affectionate, docile disposition is to be com mended though its long, thick coat needs a great deal of attention. The bearded Scotch great deal of attention. The bearded Scotch sheep dog is equally satisfactory. For the actual work of rounding up sheep many other breeds are suitable, the Scotch collie in parti cular

Sheepshead Marine food fish (Sar gusoris) of the family, Sparidae Caught in Atlantic waters off the coast of N America it attains a weight of

7 to 15 lbs, and is esteemed for the table
Sheerness Urban district and scaport
Sheeppey at the mouth of the Medway, on the
S lly It is an important naval station with
a dockyard Sheerness-on Sea is the modern

part of the town, where visitors are catered for There is a steamer service to London, Southend, and other places Pop (1931) 16,721

Sheet Torm applied to any thin piece of material, but having many special applications, such as sheet glass, made from a cylinder of glass which is cut and spread out into a thin plate, or sheet metal copper, lead, tin, iron etc rolled into thin sheets Sheeting is a special linen or cotton material made in wide sheets for bed linen As applied to paper, a quire consists of twenty four sheets which vary in size and weight

Sheffield City of Yorkshire (WR) It is at the junction of the Don and the Shear, and is served by the L.M.S and L N.E Rlys Iron was smelted here in early times and steel manufacture is the chief industry to day Other industries are tanning glass, bloyclo, paper and instrument manu factures, chemicals, gramophones etc. The city has a university with special facilities for technical research. Since 1916 Sheffield has been the seat of a bishopric, with the fine cruciform church of S Peter and S Paul as o-cathedral Pop (1931) 511,742 Sheffleld has two famous association football pro-cathedral

clubs Wednesday won the FA cup in 1896 1907 and 1935, and was champion of the league in 1903, 1904, 1929 and 1930 United won the cup in 1899, 1903, 1915 and 1925, and in

1898 the championship of the league

Sheffield Plate Name applied to plated articles made of copper plated with silver either by fusion or soldering The manufacture of Sheffield plate was begun about 1743 by Thomas Boulsover who first introduced the method of fusing allyer to copper At the present time silver is deposited on a base metal such as copper or Britannia metal by an electro chemical process

Shefford Great. Village of Berkshire from London on the GW Rry Another Shefford is a market town of Bedfordshire, with a station (Arlesey and Shefford Road) on the LNE Rry It is on the Ivel, 37 m from London and 9 from Bedford Pop 849

Sheikh Arab chief The word means "old man " and may be used as a title of respect to elders, headmon, and religious lcaders

Shekel Jowish coin In silver, worth about 28 8d, and in gold about 22 It was also a weight, equivalent to about 10 dwts Troy The word is Hebrew for a weight William Petty Fitzmaurice, Earl of English politician Shelburne Earl of Born in 1737, he was made President of the Board of Trade in 1763 and three years later became one of Chatham's Secretaries of State In 1782 George III invited him to form a ministry, but he did not accept until 1783, when he made William Pitt then only 23, his Chancellor of the Exchequer He resigned a few months later, on the question of the independence of the American colonies, and

independence of the American colonies, and was made Marquis of Landsdowne (qv) in 1784 He died May 7, 1805

Sheldon Gilbert. Archbishop of Canter Streldon Born at Stanton, Stat fordshire, on July 19, 1598 he was educated in Oxford In 1644 he was elected warden of All Souls College, Oxford, but four years later his royalist activities lost him his position He was consecrated Bishop of London in 1660 He was consecrated Bishop of London in 1660 and Archbishop of Canterbury in 1663 He built and endowed the Sheldonian Theatre.

Oxford in 1669 He was made Chancellor of the University in 1677, the year of his death Sheldrake (or Sheld drake) Sea duck (Tadorna cornula) It is It is found on sandy shores of Britain in winter, and often nests in a rabblt burrow on the dunes about 25 in. long, its head and neck are a glossy green, the wings and body black and white, a chestnut band on breast and back, and a brown or black line on the white under The bill is crimson and the feet pink part

Shell In zoology the name given to the exoskeleton of certain animals such as the molluscs, crustaceans, etc., also to the hard outer covering of eggs, and the carapace of the turtle and tortoise Shells of certain molluscs and the horny covering of tortoiseshell are of economic value.

The term Shell is also applied to a hollow The term shell is also applied to a holow projectile used in military and naval warfare and discharged from guns, howitzers, or mortars A shell contains some form of explosive or chemical compound according to the use of the projectile, for, apart from their general destructive purpose, some are used for illuminating an area. At first spherical and charged with gunpowder, the modern common shell is cylindrical and pointed and provided with a percussion cap or time fuse, gunpowder being replaced by high explosives

Shellac Refined resin obtained by melting and purifying crude lac, an exudation from the branches of Ficus religiosa and other trees of the same genus in India

Shelley Mary Wollstonecraft English Godwin and Mary Wollstonecraft, she was born Godwin and Mary Wollstonecraft, she was born Aug 30, 1797, and married the poet Shellev, as his second wife, in Dec 1816 Byron, at his villa on Lake Geneva, suggested that four of the company—he, Shelley, Mary, and Dr Pollidori—should each write a ghost storv Mary's creation was Frankenstein, which was published in 1818 Her later writings included romances, books of travel, biographics, etc She died Feb 21, 1851

Shelley Percy Bysshe English poet Born Aug 4, 1792, at Field Place, Sussex, he went to Eton and later to Oxford whence, together with his friend and fellow-student Hogg, he was expelled for heing the author of a pamphlet entitled The Necessity of Althersm In August, 1811, he married Harriet Atheism In August, 1811, he married Harriet Westbrook, but was separated from her in July 1814 She drowned herself in the Serpentine in December, 1816, and three weeks later he married Mary Godwin In company with a friend, Captain Williams, Shelley was accidentally drowned off Leghorn, July 8, 1822. The elegy, Adonais, inspired by Keats's death, Epipsychidion, and Prometheus Unbound, have been considered Shelley's finest pieces of writing He also wrote The Cencil ootina, never feels considered Shelley's linest pieces of writing. He also wrote The Cenci, a tragedy, The Revoll of Islam, To a Skylark. Ode to the West Wind, Occupus Tyrannus, A Defence of Poetry, numerous other poems, and some pamphlets

Shell-fish Generic name used for various types of bivalves and other mollusca good for food These include ovsters, cockles, and the like as well as lobsters crabs, shrimps, etc

Shell Shock Name given to the symp-posure to bombardment or other violent concussion These may be purely physical, but are more often nervous, and so varied

that the name has been applied to almost any psychic effect due to active service include sleeplessness, claustrophobia,

memory or of speech, and so on The treatment is psychotherapy in some form.

Shenstone William. English poet.
Born at Leasowes, Shrop shire, in 1714, he was educated in Oxford In 1742 appeared The Schoolmustress, one of the few works by which he is remembered as a poet His skill in landscape gardening brought him more fame When his father died in 174; he devoted his life so successfully to beautifying the estate at Leasowes that he attracted visitors from far and near He died Feb 11 1763

Shepherd's Bush District of W. London, in the borough of Hammersmith It is largely residential, but the White City, built here in 1908, used for various important exhibitions, and during the Great War, as a centre for the Royal Naval Division, has brought certain reduction to the purpose of the stability.

is now used for dog-racing

Sheppard Jack English robber and highwayman Born in Dec 1702, he started life as a carpenter, and worked steadily for six years, then fell among evil company, and committed many robberies the was caught and imprisoned four times, but repeatedly managed to escape The fifth repeatedly managed to escape The fifth time his luck failed him, and he was hanged Nov 16, 1721, in the presence of 200,000 spectators

Shepperton is 19 m from London with a station on the S Rly. It lies on the north bank of the Thames, and is a good Village of Middlesex place for fishing

Sheppey Island off the coast of Kent It lies at the mouth of the Thames, separated from the coast by the Swale, and is 9 m long and 5 wide Its most important towns are Sheerness and Queenborough There is some agriculture but the chief industry apart from the dockyard business of Sheerness, is sheep rearing There is a light relivent agents the island

of Sheerness, is sheep rearing There is a light railway across the island

Shepshed Urban district of Leicesterborough and 120 m. from London by the
L M S Rly Here are quarries and glove and
hosiery manufactures Pop (1931) 5759

Shepton Mallet Urban district and
Somerset, on the Shepper, 115 m from London
and 22 from Bath, by the G W. Rly It has a
16th century market cross, and the market
dates from the 14th century Industries include
the manufacture of silk and velvef, notiony

the manufacture of silk and velvet, pottery and brewing Pop (1931) 4108

Sheraton Thomas. English furniture the was born at Sheraton Thomas. English furniture designer He was born at Stockton-on-Tees in 1751 and came to London as a young man He excelled as a draughtsman and designer and left a number of works containing furniture designs. His style may be described as one in which ornamentation was generally subordinated to utility, although many of his published designs are ruined by

many of his published designs are ruined by too much ornament. His chief work was The Cabinetmaker and Upholsterer's Drawing Bool He died Oct 22, 1806

Sherbet Beverage consisting of fruit juices sweetened and diluted with water It is freely used in Moslem countries where alcohol is forbidden. The word is derived from the Arable sharper a derived from the Arable sharper a derived.

Sherborne Urban district and market by the Manzanilla sherrics, and the browner town of Dorset, 118 m sweet kinds by the Amontillado Other from London, and 13 from Dorchester on the S Rly It is famous for its abbey, which once belonged to a Benedictine monastery The town is an agricultural centre and has some small industries Pop (1931) 0542
Sherborne School dates from the time of the

monastery and received its charter as a grammar school in 1550 It has accommodation for rather more than 400 boys There is also a girls' school founded in 1908, with about 250 pupils

Sherbrooke Ctty of Quebec Canada it lies at the confluence of the St Francis and Magog rivers and has woollen and cotton manufactures Mining is carried on in the neighbourhood It is the seat ol a Roman Catholic bishop Pop 28,933

Sherburn Market town of Yorkshire (WR), 182 m from London and 13 from York, by the LNE Rly Informer years the Archbishop of York had a palace here Pop 1735

Sherburn Colliery, in Durham, is 251 m from London on the L N E Rly It is a mining district, and has some interesting ruins of a 13th century hospital Pop 2977

Sheridan Richard Brinsley Butler Irish dramatist and politician Born in Dublin, Oct 30, 1751, of literary parents, he was educated at Harrow The family settled in Bath in 1771, where Sheridan married Elizabeth Linley the daughter of the composer Ellizabeth Liniev the daughter of the composer in 1773 Coming to London, he produced The Errals in Covent Garden which, after a short delay, proved a wonderful success Acquiring Drury Lane, he produced The School for Scandal and this also met with instant and enthusiastic approval Sheridan then turned to politics Elected for Stafford in 1780, he became Foreign Secretary in 1782 and his part in the impeachment of Warren And his part in the imperciment of warren Hastings made his parliamentary reputation Thentrical affairs met with disaster, and he died in poverty, July 7, 1816 He was buried in Westminster Abbey

Sheriff Public official, the descendant of

shire an office which existed in England before official is known as the high sheriff and is nominated on Nov 12 every year His duties are mainly social, and it is his function to receive the judges when they are on circuit Ho is chosen by the Crown There are also sheriffs in London and in some ancient cities and boroughs such as Norwich Bristol Oxford, Conterbury and York.

In Scotland the sheriff has legal duties and

is himself a lawyer

Battlefield on the slopes Sheriffmuir Battlefield on the slopes of the Ochils, Perthshire It was the scene of an indecisive battle between the Jacobites under the Earl of Mar and the Hanoverians under the Duke of Argyll, in 1715 Both sides claimed the victory, the casualties being equal

Sheringham Urban district and water ing place of Norfolk 142 m from London and 4 from Cromer, by the L.N. E. Rly. With good air and beautiful country its main industry is catering for visitors, though there is also some fishing. Pop. (1931)

4141 Sherry Name of certain Spanish white wines made in the neighbourhood of Xeres near Cadiz Various types of sherry are made, the pale dry wines being represented

sweet kinds by the Amontillado Other varieties are the Vino Fino, Olorosa, and Montilla The best wines are used largely in Cadiz for improving the quality of inferior wines, and the exported shortles are usually strengthened by the addition of alcohol.

Sherwood Forest Woodland dishamshire Very little of it remains to day, but some of the large estates in the Dukeries (q v) have vestiges of it It was primarily associated with Robin Hood and his merry men, and the name lingers as one of the suburbs of Nottingham city Originally it covered more than 200 sq m, and was Crown property

Shetland Islands Group of islands of the N coast of Scotland 50 m N E of the Orkneys with an area of 551 sq m There are about 100 in the group, but only 30 are inhabited, including Mainland Unst, and Yell Lerwick is the capital Sheep rearing is the main industry, with the production of the famous Shetland wool and the articles knitted from it. There is some argiculture and fishing. Per 21 110 wood and the articles antitled from it. Incre is some agriculture and fishing. Pop. 21 410. They form a county of Scotland and units with the Orkneys to send a member to Parliament.

Shetland Pony Small breed of pony from the Shetland Isles Also known as the shelty, it is the smallest breed of British horse, with a thick shaggy coat mane, and forelock, and great strength and endurance

Shibboleth Test word The term has the Bible story told in Judges xii 6 Jephthah used the word to sort out his own followers from the Ephraimites as they passed Jordan The latter pronounced it Sibboleth, without the h, thus betraying their origin

Shiel Scottish lake It lies between Inverness shire and Argyllshire, of which counties it forms part boundary and is 17 m long and 1 m wide Glenfinnan stands at the head of the loch Here Charles Edward Stuart raised his standard in 1745

Shield In haraldry the escutcheon or field in haraldry the escutcheon or placed or blozoned. It was really the shield used by knights in warfare, painted in order to distinguish one from another

In engineering a shield is a mechanical device used in tunnelling operations in loose or soft materials Brunel in building the Thames Tunnel between 1825 and 1843 was the first to use a shield which, lowered down the shaft was moved forward as the tunnel was dug out by the men Various improvements were made and the modern type consists of a steel cylinder with a cutting edge, the shield being forced forward slowly by means

mouth of the Tyne, part of the hand, at the mouth of the Tyne, part of the borough of Tynemouth, 275 m from London and 8 m from Newcastle on the LNE Rly It has docks and shipbuilding industries, and coal is exported.

of hydraulic rams

Shields south County borough and seaport of Durham, on the S bank of the Tyne 270 m. from London and 8 m from Newcastle, by the LNE Rly It is a centre of the coal export trade, and has a fine harbour, with good docks and shipbuilding yards, also manufactures of chemicals, glass,

There is a steam ferry connecting it with |

N Shields Pop (1931) 113,452

Shifnal Market town of Shropshire, 136
Shrewsbury, by the GW Rly It is an old Shrewsbury, by the GW Rlv It is an old and picturesque place, situated in a mining district, with large fewer streams of the stream of the streams of the stream of the streams of the str district, with iron foundries and blast furnaces as its principal industries Pop 3303

Shiites Mohammedan sect. Their special tenet is additional reverence for, Ali. cousin of Mahomet, and the solemn observance of the anniversary of his assassination

Shildon Urban district and market town of Durham, 241 m from London and 9 from Darlington, by the LNE Rly There are railway works here, while iron-founding and coal mining are important, and there are stone quarries in the neighbourhood Pop (1931) 12,600 Urban district and market town

Shilling Partish silver coin, with a nominal Shilling Partish silver coin, with a nominal of a pound sterling, and in its present style dates from the reign of Henry VII There was a coin of the name in Saxon times, which was raised to the value of 12 pence after the Conquest. The milled edge was added in the reign of Charles III in order to prevent debags. reign of Charles II in order to prevent debasement by paring the edge of the coin

Shingle Shore deposit consisting of pebbles formed by wave action

upon the base of a cliff Shingle, at first coarse, gradually passes into fluor material, and finally into sand

The term shingle is applied also to thin, pieces of wood, either sawn or split, and used for roofing houses instead of tiles

The word also means to cut the hair closely to the head, a fashion adopted by women in Great Britain after the Great War

Shingles (Hornes) Acute skin inflam mation characterised by a rash occurring over areas of the face and body, usually preceded by stinging, neuralgic pains At first the spots are full of clear fluid, later they become turbid, and in a few days dry and clear up

Treatment A soft, sterilised gauze dressing should be applied to the spots, and the area kept dry by the use of dusting powder If the pain is severe, a sedative such as aspirin should be given Ultra-violet ray treatment is helpful in clearing up the condition.

Shintoism State religion of Japan The name is derived from the Chinese, meaning "the way of the gods," and in practice it is a form of animism, the divinities consisting of natural powers, abstract qualities, and deified men The goddess of the sun is called Amaterasu, and is the chief deity The book of Shintoism is the Kojiki (A p 712)

Buddhism and Confucianism have influenced

the teaching, and some of its practices are derived from them. There are pilgrimages. derived from them. There are pligrimages, purification ceremonies, and a form of ancestor The after world is known as Yomi worship

Shinty Form of hockey, played in Ireland and the Highlands of Scotland Each side has twelve players, and the stick, called the caman or club, has a triangular head The ball is made of cork covered with leather The goals are 12 ft wide and 10 ft. high, and are called hails There are resemblances between about any highling. tween shinty and hurling

Ship Large vessel used for navigation, on the sea, and very varied in type In ancient times the Egyptians were great shiphuilders, their vessels, propelled by oars and salls, navigating both the Mediterranean

and the Red Sea The Chinese and Hindus also used ships for their widespread commerce with other countries Ship design underwent many changes from the 16th century onward, and with the introduction of steam in the 19th century wooden salling ships were replaced largely by iron and steel steam vessels. These, at first, were of the paddle wheel type, but later the screw-propeller was found to be a more efficient device

Shipbuilding Business of designing and building ships The work is done from drawings and plans made usually by members of the Society of Naval It comprises a great variety of Architects operations, many being done in the shipbuilding yards where the hull of the vessel is laid, but others, such as the building of the engines, usually elsewhere

Shiphuilding may be divided into two classes the building of warships and the building of Much of the cargo and passenger vessels. Much of the former is done in the government yards, but some is given out to private firms who have yards in the great ports For long Great Britain had almost a monopoly of the world's ship-building, but after the Great War this supremacy was to some extent lost Apart naval shipbuilding at Portsmouth Apart from shipbuilding

Plymouth, the great centres are the ports on the Clyde, Tyne, and Tees
In 1929 and subsequently the prospects were so unsatisfactory that an association of hipbuilders called the National Shipbuilders' Security was formed to buy up redundant vards, and a number were closed down In 1931 it was reported that of 200,400 insured workers in the industry, more than half were unemployed. The employers have their organisations, and the men a powerful trade union called the Federation of Engineering and Shipbuilding Trades

Ship Canal Waterway for sea going ships Among the most famous are the Suez Canal and the Panama Canal, but there are others on a smaller scale, which have made inland places into scaports Of these the Manchester Ship Canal, completed in 1893, is a good example

Shipley Market town in Yorkshire Shipley (WR) It is virtually a suburb of Bradford, and is 206 m from London, by the LMS Rlv It is one of the woollen towns Pop (1931) 30,243

Ship Woney Tax for the upkeep of

Ship Money Tax for the upkeep or the navy and coastal defences It developed from the prerogative of the Crown to require maritime towns and counties to furnish ships in time of war, a hability which was often commuted for a money payment. The writs issued by Charles I in 1634 and 1635 levying ship money in time of pages and on pilend as well as well as well as the pages and on pilend as well as well as well as the pages and on pilend as well as well as the pages and on pilend as well as well as the pages and on pilend as well as the pages are the pages and on pilend as well as the pages are the pages and on pilend as the pages are the pages and on pilend as the pages are the pages and on the page and the page time of peace and on inland as well as maritime counties and towns aroused the opposition of John Hampden. It became one of the chief issues between King and Parliament, and was expressly declared illegal in 1641

Shipping Business of conveying goods and passengers across the sea There are special laws for the regulation of shipping, and a department of the Board of Trade exists to see that they are enforced

In Great Britain these laws, chiefly contained in measures passed in 1894 and 1906, deal with the engagement, wages, and conditions of work of seamen, the sale and purchase of ships and the loads allowed They forbid the employment of unseaworthy ships and deal with the relations of shipowners, brokers and others concerned.

The greatest shipping nations of the world are, according to the figures of July, 1935, as follows

Tons
Brilh Empire 20 510 021
United States 12,85° 250 3,703 602 3 035 136 2,834 406 Germany France 4 043.650 Italy Netherlands Japan 3 967 973 TOTAL

There are many organisations in connection with the industry The employers who include such great companies as the Peninsular and Oriental (P & O ), Cunard Royal Mail, Furness and others, are organised in the Chamber of Shipping The employees have a National Shipping The employees have a National Union of Scamen Shipbrokers, mon who arrange for the conveyance of goods, have their Chartered Institute of Shipbrokers at 57 St. Mary Axe London E C 3 During the Great War shipping was placed under govern ment control and a Ministry of Shipping was established This lasted from 1917 to 1921 Sec MERCANTILI MARINE.

Shipton Mother English prophetess, according to tradition she lived in the 16th century, and is said to have prophesied the death of and is said to have prophesied the death of certain eminent persons. One anonymous writer relates that she was born at Knares borough, and that her malden name was Ursula Southill Another, Richard Head announced her to be the Devil's daughter Her prophecies have been quoted until quite recent times including the famous statement that carriages would go without horses, ic, testicated material. trains and motors

Shiraz City of Persia (Iran), 130 m from Bushire Here the poets Sa'di and Bafiz were born. It was a stronghold of the Zoroastrians and was founded in 607 Besides the wine industry there is trade in cotton, spices, and perfumes, especially attar of roses Pop 50 000

Torritorial division of England, the Shire onire equivalent of county At one time these were under the jurisdiction of an earl who in his turn delegated the adminis

tration to a reeve hence the term sheriff, i e Sec COUNTY shire reeve

Shirebrook Town of Derbyshire, 143 from Mansfield on the L M.S Riv A small stream the Shirebrook separates Derbyshire from Nottinghamshire at this point. It is in a coal mining district

Shirehampton District of Glouces tershire It is situ ated 125 m from London on the River Avon, being virtually a suburb of Bristol on the GW Rly See Brustot.

Shire Horse Heaviest breed of horse tion work. It is probably the lineal descendant

of the old English war horse

Shittim Variety of acacia (A seyal)
Shittim Variety of acacia (A seyal)
It grows in Palestine par
ticularly in the neighbourhood of the Pead
Sea and its wood was used by the Jews for
building and decorative work. The Ark of the
Covenant was made of it and much of the
timber of the Tabernacle was shittim. It is
hard and close grained, and lends itself to
killul workmanship.

Shoal Shallow area in a river, lake or sea.

A shoal often occurs where there is a sandbank, river bar or reef, and is therefore a Occanic shoals formed danger to navigation by submarine ridges rising to within a short distance from the surface occur in many parts of the world.

The term shoal also means a large number of fishes together, as herring shoats, mackerel shoals, etc

Shock Depressed condition due to injury to the physical organism Treatment for shock, from whatsoever cause, is fresh air and lossoned clothing. The patient may collapse and become cold and blue, in which case he must be wrapped up warmly in blankets, with his head lower than his feet and have hot water bottles at the feet and sides If he can swallow, a teaspoonful of sal volatile is the best restorative and hot tea or coffee containing sugar will restore heat and energy.

If breathing ceases artificial respiration (qv) must be resorted to (See Drowning)

In cases of unconsciousness resulting from

In cases of unconsciousness resuring from concussion injury, or fits beyond doing every thing to keep the patient warm, attempt no treatment until the doctor arrives

Shoddy Textile material of inferior obtained from old woollen fabrics and cloth clippings

These are cleansed, unpicked sorted lives warden grades and tened into divor into various grades and tensed into fibres, which, after oiling are respun into cloths, rugs, eto The chief centres of the shoddy trade are Batley, Dewsbury and Leeds.

Shoeburyness Urban district of Essex, on the N side of the Thames estuary, 39 m from London and 3 from Southend, by the LNE Rly Here is a gunnery school Pop (1931) 6717

Shooter's Hill District of London part of the borough of Woolwich 10 m from Charing Cross, with a station (Eltham Park) on the S Rly It is a residential district, and there are some woods that are now public property

Shooting Star Common term used for the meteors which travel rapidly across the sky, often leaving a trail of light behind them, and seen at

certain periods of the year

Shop Steward Trade union official The office may be held by any member of the union who has Trade union official worked with a particular firm for a given time, and who is appointed by his follows. He is responsible for the collection and forwarding of subscriptions, and the general organisation of the union in his own firm

Shore Jane Mistress of Edward IV of England The date of her birth is unknown but her association with the king dates from about 1470 After his death she was charged with sorcery by Richard III and made to do public penance She died about 1527, completely destitute Tradition derives the paper of Sheredisch from the place derives the name of Shoreditch from the place of her death, but this is very doubtful

Shoreditch Metropolitan borough of the county of London To the NE of London, it includes Moorfields Hoxton Haggerston and Kingsland. It is the centre of the furniture and cabinet making trade of London The first London theatre was built here by James Burbage and the parish church is known as the actors church because both the Burbages and Richard Tarloton are buried there Pop (1931) 97 038 Shoreham Watering place of Sussex 6 m W of Brighton and 55

m from London at the mouth of the Adur, on the S Rly Old Shoreham lies a little way up the river, and has a fine old church New Shoreham caters for visitors In mediaeval times Shoreham was a flourishing port In the harbour silted up and its prosperity decayed

From here Charles II escaped after the Battle of Worcester in 1851 Pop (1931) 8757

Shoring In building and engineering, or other structure by means of wooden props, sually as a temporary measure. In docks, a vessel while being built or repaired is kept steady by shoring with timbers. In mines, the entrance, walls, and roof of an adit or a working level are supported by pit-props and baulks of timber, or in many cases a more permanent support is secured by masonry.

Shorncliffe District of Kent, 70 m from London and 2 from Folkestone, by the S Rly An important military camp here dates from 1855

Shorter Catechism Presbyterian of Confession of faith It was drawn up in 1647 for the use of the churches of Scotland, the larger catechism being considered too profound and difficult for

instructing simple people

Shorthand System of abridged or con-densed handwriting which can be set down as rapidly as words are spoken There are two main schemes upon which all systems are based, the phonetic or sound

all systems are based, the phonetic or sound scheme, and the orthographic or writing scheme In addition to these there is a geometric type Pitman's Shorthand is phonetic, while the lightness or heaviness of the signs show whether the sound indicated is light or heavy, as P or B Further effects are obtained by the position of the signs show below or or the line and there the signs above, below, or on the line, and there are innumerable grammalogues or condensed signs which represent a whole word or a whole phrase The more modern systems tend to become simplified and less arbitrary, making less demand on the memory Gregg and Sloan-Duployan are such systems Speedwriting is one system which is based entirely on words as they are spelt in English, condensed until great speed in writing can be acquired

Shorthorn Breed of cattle It is a utility type, noted both for its beef producing quality and high milk yield White, red, or roan in colour, the body is symmetrical and bulky, though small in bony framework The horns are short and curved

See CATTLE

Shorthouse Joseph Henry English novelist He was born in Birmingham of Quaker parentage on Sept 9, 1834, and educated privately In 1880 he printed for private circulation 100 copies of John Inglesant One of these fell into the John Inglesant One of these fell into the hands of W E Gladstone, and was so highly praised by him that, when the book was published the following year, it became the most widely read and the most discussed book of the day He subsequently wrote other books, but none of these had any outstanding success He died March 4, 1903

Shotley Village of Suffolk It stands on a point where the Orwell and the Stour flow into the sea, 10 m from Ipswich and 2 from Harwich There are naval barracks here and a school for naval cadets

Shottery village of Warwickshire Its Shottery chief claim to fame is Anne Hathaway's cottage, where Shakespeare's wife lived when he was courting her Stratford-on-Avon is 1 m away The cottage was acquired by the Shakespeare Birthday Trust in 1802

centro, and bricks and tiles are manufactured Pop 20,582

Shoulder Ball and socket joint by which the arm is joined to the body The head of the humerus fits into a socket in the shoulder blade, and is surrounded by ligaments and muscles all of which allow free movement. The most common injury to the shoulder is a dislocation, but the shoulder blade may be fractured by direct violence

blade may be fractured by direct violence Shovel Sir Cloudesley English sailor Born in Norfolk, Nov. 1650, of poor parents, he went to sea, and commanded a ship at the battle in Bantry Bay, 1689, being knighted for his services In 1690 he was rear-admiral of the blue, serving at the battle of Beachy Head As rear-admiral he assisted in the capture of Barcelona, but attacked Toulon unsuccessfully On October 22, 1707 his ship, the Association, foundered in a for off the Scilly Islands with a loss of all on board

Shoveller Species of duck (Spatula of Europe, Asia, N Africa, and N America, and a winter visitant to Britain, breeding in our Eastern counties, in Ireland, and in parts of Scotland The bill is broad and spatulate The male plumage is head and neck, green, back, brown, wings, white and brown, breast, chestnut, shoulders, light blue, underparts, chestnut The bill is black and the legs orange

Shrapnel Type of ammunition It was invented by Col Henry Shrapnel (1761-1842) and consists of a shell enclosing many bullets When the shell bursts these are propelled forward at great speed Shrapnel was taken into use by the British Army in 1803

Shrew Small, mouselike, insectivorous mammal The family (Sorcedae) is widely distributed. A long snout, small, rounded ears, and the specialised teeth appropriate their distributed that are characteristics. priate to their diet are characteristics. The common British shrew is nearly 3 ins long with a shorter tail, the fur being brownish to reddish-grey above and lighter beneath Besides insects, it cats worms and snalls Another British species, the pigmy shrew, is just over 2 ins long, the fur being a reddish brown

Shrewsbury Municipal borough and county town of Shropshire It is situated on the Severn, 153 m from London and 43 m from Birmingham, on the C W and L M.S Rlys It was important the C W and Lals rive it was important from early times as a border town, and grew rapidly under the Tudors, many fine 16th century buildings surviving The principal buildings are the castle, St Mary's and the Abbey church, and the old market house There are steam-waggon works and other industries Pop (1931) 32,370

Chrowsburg School founded by Edward VI

Shrewsbury School, founded by Edward VI in 1552, has some 500 boys, and includes as one time scholars Sir Philip Sidney and Judge

Jeffrevs

The Battle of Shrewsbury was fought on July 21, 1403 Here Henry IV defeated an allied force consisting of the Percy family, the Welsh under Owen Glendower, and other malcontents

Shrewsbury Duke of Born July 24, the Earldom of Shrewsbury while still a child, Charles Talbot was created duke in 1694 One of the seven who in 1688 invited William, Shotts Town of Lanarkshire, Scotland Prince of Orange, to come to England to replace from Glasgow, on the L.N.E Rly. It is a mining William and Mary from 1688-1690, and again

1694 1700 During this latter period he was accused of freason, there being a strong suspicion that he was corresponding with the exiled James William allowed him to resign, and he retired to the Continent till 1707, when he returned to England and became Lord High Treasurer, Lord Chamberlain, and Lord Liou tenant of Ireland He died Feb 1, 1718

Shrewsbury Earl of English title One of the oldest earl doms in the peerage, it was first granted to Roger de Montgomery in 1071 His son, Robert, was deprived of his titles in 1102 The earldom was revived in 1442 for John, 5th baron Talbot, whose descendants bear the title to day Talbot, who fought in the French wars, was one of the foremost English leaders defeating the Burgundlans at Crotoy in 1437 and taking Harfletr in 1440 He also served in Iroland and died fighting in France in July, 1453 See Talbot.

Shrike Bird of the family Landae the woodchaft (L rutilus), visit Britain in winter, but only one species, the red backed shrike (L colluro), or butcher bird, breeds there

Shrimp Name applied generally to the order Macrura, and in particular to the so called edible brown shrimp (Crangon vulgaris) When alive the brown shrimp is greyish green spotted with brown it turns pinky brown when cooked. The shrimps are near allies of the prawns, which are larger and have nippers on the walking feet The common shrimp is abundant in shallow water off the British Isles, and shrimp fishing is a considerable industry

Shropshire (or Salop) County of Eng The western part of the county is hilly and the greater part south of the Severn upland In the north is the Wrekin (1385 ft.) and the county also contains the famous Clee Hills, Wenlock Edge and Clun Forest Mainly agricultural, Shropshire produces barley, oats, beets, etc., and is noted for its sheep and cattle From its clays, bricks tiles pottery and carthenware are made and there are important coal fields and iron founding industries Shrewsbury is the county town, other im portant towns are Bishop 8 Castle, Bridgnorth, Ludlow, Oswestry and Wenlock Area, \$61,800 acres Pop (1931) 244 162

portant towns are Bishop's Castle, Bridgnorth, Ludlow, Oswestry and Wenlock Area, 861,800 acres Pop (1931) 244 162
Shropshire is rich in ancient remains, in cluding the Roman Uriconium (Wroxeter), Offas Dyke (qv) and 32 Norman castles Till the 16th century the county suffered much from incursions by the Welsh, but after the union of England and Wales, Welsh immigrants settled in large numbers Great prosperity was brought by the cloth and wool trade, and fine houses a feature of the county, were built of helf timber and brick The fisheries and the trade of the Severn were another source of

Shrove Tuesday Name for the day nesday It was so called from the fact that in former times it was customary for people to be shriven that is, to make their confessions, on that day, in preparation for Lent The eating of pancales is a feature of the old Shrove Tuesday feasting that has survived

Shrub General term for a perennial woody plant with branches growing either from the roots or from the level of the ground The word has no scientific significance, but is used in order to distinguish between a shrub

and a tree The latter is understood as having a single trunk with the boughs beginning a considerable height from the ground A feature of modern horticulture is the cultivation of flowering shrubs

Shrub is also the name of an alcoholic drink

made from various ingredients

Shuttle In weaving, the term for the instrument used for carrying the thread of the west between the threads of the warp It consists of a wooden block pointed at the ends and hollowed out in the middle to hold the yarn, the thread passing out from an eye in the gide

Siam Kingdom of SE Asia extending southwards into the Malay Penin sula, bounded on W and N by Burma, and on NE and E by French Indo-China Its area is 200,234 sq m The capital is Bangkok at the mouth of the Monam River It is chiefly lowland with the valley of the Menam on the west, and the valleys of the Mekong and its tributaries on the east. Upper Siam is moun tahnous

In 1932 a Constitution Act greatly reduced the King's power, which hitherto was almost absolute but in 1933 there was serious trouble between the liberal party and the reactionaries In 1935 King Prajadhipok abdicated and Amanda Mahidol was proclaimed King. Rice and teak are the principal products and among minerals tin, rubies and sapphires are important Bangkok, the capital, has a university, and there is a good educational system Pop (1930) 11 684,000

Stamang Glibbon are of Sumatra and the Malay archipelago. It is the largest species of the genus, standing about 3 th high with very long arms and hind limbs It is classified as Syndactyla hylobates, from the fact that its distinguishing characteristic is the skin which unites the middle and index toes for half their longth

Slamese Twins of Chinese parents in Slam in 1811, having their bodies united by a band of flesh stretching from one breast to the other They were exhibited in America and Europe about 1829, and again in 1869 after a period of retirement, during which they married two sisters and had offspring They died in 1874 The name is applied to other teaks of the same kind

Sibelius Johan Julius Finnish com tehus, Dec 8, 1865 and studied music at Helsingfors, Berlin and Vienna Since 1893 he has been professor at Helsingfors His best known works are Finlandia (a symphonic poem) and Valse Triste His work is characterised by great technical power as well as imaginative quality His compositions include eight symphonics ten symphonic poems and several works for both choir and orchestra.

quality His compositions include eight symphonics ten symphonic poems and several works for both choir and orchestra.

Siberia Asiatic territory of the Soviet Union of Russia, comprising 12 provinces with an area of 4,863,100 sq m. The chief towns are Irkutsk in the south and Tomsk in the west Siberia is traversed by great rivers of which the Yenisei and Amur are the most important, nearly all are fee bound for many months in the year The country comprises alternations of great mountain ranges with zones of steppes or level table land and belts of virgin forest There are immense mineral resources at present only partially developed, the mines being chiefly worked by convicts, while the population consists largely of descendants of former

convicts and exiles A feature of Siberia is its immense lakes, Lake Baikal being one of the largest freshwater lakes in the world Trans-Siberian Railway, running from Moscow to Vladivostok and skirting Lake Baikal, is the main artery of communication, with a total length of 6431 m Pop (1931) 11,335,500 Sibyl Name given by the Romans to prophetesses, generally reckoned to be

ten in number and supposed to be inspired by Apollo The most famous was the Cumaean Sibyl, said by Livy to have offered Tarquinius Superbus nine books of oracles concerning the religion of Rome He refused to give her her price, whereupon she burnt three books and officied the remaining six without abating her dependent of the remaining six without abating three more, and Tarquin, struck by her per-tincity, bought the remainder at the price of the original nine Housed for reference in the temple of Jupiter on the Capitol, the Sibylline Books were destroyed by fire in 83 B C

Sicily Largest island in the Mediterranean Separated from Italy by the Strait of Messina, it has an area of 9935 sq m capital is Palermo (q v) Other important towns are Catania and Messina The island is largely a plateau from 500 to 1000 it. above sea-level, a plateau from 500 to 1000 ft. above sea-level, traversed through the northern half by a continuation of the Apennines Mount Etna (q v) rises out of the Plain of Catania. The climate is usually warm and equable, but subject in spring and early autumn to visitations of the sirocco. The soil is fertile, and fruit and cereals are freely grown. The island has a considerable mining industry, and is the world's chief source of sulphur. source of sulphur

Sicily has had a very chequered history The Phoenicians and Greeks planted it with colonies, it was then dominated successively by Romans, Goths, Saracens and Normans In later times it was ruled by Angevin, Haps-In later times it was ruled by Angevin, Hapsburg, and Bourbon dynasties until it was freed by Garibaldi, when it became, in 1861, a part of united Italy Pop (1931) 3,972,379

Sickert Walter English painter and etcher Born May 31, 1860, at Munich, he studied under Whistler at Chelson, and the control of th

Munich, he studied under Whistler at Chelsea, was made A R A in 1924, and in 1928 was President of the Royal Society of British Artists His pictures include "The Camden Town Murder" (1906), "Supper at the Casino" (1920), "Raising of Lazarus" (1932), and his architectural paintings, "Hotel Royal" (1900), and "Pulteney Bridge" (1918)

Sidcup Urban district of Kent, 12m from London, on the S Rly It is a popular residential district Pop (1931)12,360 It is

Siddons Sarah. English actress Born at Brecon on July 5, 1755, daughter of Roger Kemble, she was considered by many to be England's greatest tragic actress She married the actor, William Siddons, and made her London début in Drury Lane, as Portia, but was a failure She then toured England for six years, her reputation growing delly, and returned to Drury Lane to make an immediate success Errom this time her career was one long triumph From this time her career was one long triumph

and granular, or as rhombohedral crystals In its impure form as clav ironstone it forms one of the most valuable ores of iron in England

Sidgwick Henry English philosopher. Born May 31, 1838, he took an active part in the provision of higher educa-tion for women, Newnham College being the outcome of his efforts Though not orthodox in his beliefs, he regarded Christianity as "indispensable and irreplaceable, looking at it from a sociological point of view." His principal writings are The Principles of Political Economy (1883) Outlines of the History of Ethics (1886), and The Elements of Politics (1891) He was one of the founders of the Society for Psychical Research He died on Aug 28, 1900

Sidlaw Hills Low mountain range in Scotland The chief summits are Craigowl (1493 ft), Auchterhouse Hill (1399 ft), and Dunsinane (1012 ft ), which has remains of an ancient fort known as Macbeth's Castle

Sidmouth Urban district and watering place of Devon It is 14 m by road E S E of Exeter and lies in a narrow valley between the red sandstone cliffs of high Peak on the west and Salcombe Rin on the east. The observatory built here by on the east. The observatory built here by Sir Norman Lockyer (qv) has recently been enlarged Formerly a prosperous port, in the time of Edward III it sent two ships to the Slege of Calals, but lost its importance owing to the silting up of the harbour Pop (1931) 6126

Sidney (or Sydney) Algernon English son of the second Earl of Leicester, he fought at Marston Moor against the Royalists At the Restoration he went to the Continent, but returned under a pardon in 1677 He drew up a constitution for Pennsylvania for his triend William Pann. Acquested of high treeses friend, William Penn Accused of high treason at the time of the Rye House Plot, he was attainted and sentenced to death by the notorious Judge Jeffreys, and executed on Dec. 7, 1683 The attainder was cancelled 1689

Sidney Sir Philip English statesman and author Born at Pensaurst, Kent, on Nov 30, 1554, of noble descent, he was educated at Shrewsbury and Oxford By turns in and out of favour with Queen Elizabeth, he in and out of favour with Queen Elizabeth, he was sent, in 1577, as ambassador to the Emperor Rudolf II, and later to William, Prince of Orange He was knighted in 1583 In 1585 he had arranged to accompany Drake on one of his buccaneering expeditions to America, but was prevented from sailing by Drake's machinations Instead, he was ordered to go under Leicester to the support of the Nother under Leicester to the support of the Nether-

landers in their struggle against Spain, and he was killed at Zutphen on October 17, 1586 His contemporary and friend, Edmund Spenser, said that he was "the president of noblesse and chivalry" His poetry, all noblesse and chivalry" His poetry, all published after his death, bears close relationship to the romance of his life, and his sonnets have been said to offer the most complete and powerful pictures of passionate love in the English language His chief works are, Arcadia, a romance, the Astrophel and Stella sonnets,

From this time her career was one long triumph Joining her brother. John Kemble, at Covent Garden in 1803, she acted there until her formal farewell, as Lady Macbeth, in 1812 She is now best remembered by Gainsborough's portrait of her She died on June 8, 1831 Siderite Alternative name for the mineral Chalybite, the native carbonate of iron It varies in colour from pale yellow to brownish black, and occurs either massive glass and linen, purple dye and perfames.

It passed from Phoenician to Assyrian Baby It passed from Fromerican to Assyrian Baby lonian and Porsian domination, and submitted without resistance to Alexander the Great It fell later into Syrian, Egyptian, and Roman hands It had a chequered history during the Crusades, being held sometimes by the Saracens and sometimes by the Christians It was stormed by the Allies under Napier in 1840, and occupied by British troops in 1918

Slegfried Hero of Teutonic legend, and principal character of the Nibelungenlied The legend of the Nibelungs took root in Germany after its birth among the took root in Germany after its birth among the Franks on the Rhine and from Germany found its way in a slightly altered form to Scandinavia. In the Nubclungenlied Slegfried slays the dragon, Fafnir, and wins the hoard of the Nibelungs Making himself invulnerable but for one spot upon which a leaf alighted, by bathing in the dragon's blood, he helped Gunther to win Brunhild in Iceland, but Gunther's sister, Kriemhild, brings about his death For the Norse variations, see Sigurn

Siemens Sir William. German scientist and inventor Born in Hano yer, April, 1823, he settled in England in 1844, being naturalised in 1859, and knighted in 1883 He was President of the British Associa-tion in 1882 He and his brother, Werner, founded the firm of Slomens Bros, building founded the firm of Stemens Bros, othlating overland telegraphs, and laying cables, design ing the steamship Faraday for this purpose Siemens's regenerative furnace, which produced steel directly from the ore practically revolutionised the methods of steel production he was also a pioneer in electric tramways. He died on Nov 19, 1883

Siena Province and town of central Italy The province has an area of 1471 sq m, and produces wheat, olive oil, silk and Chianti wine The town is situated on three hills, and is surrounded by ancient walls It has a Gothic cathedral dating from 1243 and ontaining Donatello's statue of John the Baptist. There are also many fine palaces and a university founded in 1203 It was annexed to Florence in 1557 Pop (1931) province, 260,891 town 17 688

Sierra Name applied in Spain and America to ranges of mountains with jagged peaks It is usually derived from the Latin serra a saw but is believed by some to have the same origin as Sahara namely, the Arabic sehrah, a desert place There is a Sierra Nevada in both Spain and California, and a Sierra Madre in Mexico

Sierra Leone British Crown Colony on the W coast of Africa coded to Great Britain in 1787 A Protectorate over the Hinterland was declared Protectorate over the Hinterland was declared in 1896. The estimated area of the colony is 4000 sq. m. The capital is Freetown with (1931) 55 359 inhabitants and the principal exports are palm kernels kola nuts and palm oil Freetown has the best harbour in West Africa and from here there is a railway inland for 227 m, with a branch line 104 m in length The colony is administered by an Governor advised by an Executive Council Pop 85,163, including 1161 resident Europeans

Sight Name given to the visual sense, having as its special organ the eye Under sight is included the perception of light form, and colour External impres sions are received on the retina of the eye the impulses being conveved by the optic nerve to the nerve centres of sight in the brain.

Sight In gunnery a mechanism on the accurately Formerly a line of metal scored along the top, the sight has now become complex owing to constant improvement, its efficiency depends on its being graduated to allow for forces acting on a projectile during flight which cause it to drop with accelerating velocity On naval guns the director sight, invented by Sir P Scott, is used

Sigismund Holy Roman Emperor Sightinterited Brandenburg from his father, the Emperor Charles IV, and succeeded to the Kingdom of Hungary through his wife, Mary In 1410 he was elected Emperor He is chiefly remembered in connection with the

chiefly remembered in connection with the Council of Constance, called in 1414 by the Pope for the purpose of combating the schisms in the church John Huss, one of the early re formers was cited to appear. He was convicted of heresy and burned at the stake in spite of the safe-conduct given him by Sigismund. The the safe-conduct given him by Sigismund Emperor died on Dec 9, 1437

Signalling of transmitting signals to a greater or less distance. The signals may be of the nature of flags, lamps, heliographs smoke, sound signals such as bells and sirens, semaphores, as on railways and warships and also telegraphy and telephony Signalling is used for military and naval purposes, and on ships generally as a means of inter-com munications, also on coasts as a warning of danger to shipping The Morse code and its modifications are commonly used in signalling On railways semaphores are supplemented by night signals of red and green lights Coloured lights are also used for road traffic signals

Signet Personal seal of the sovereign formerly used to authenticate documents of a private character, cg, a royal letter, or as a warrant in the case of public documents, eg, commissions and letters documents, eg, commissions and letters patent, for the Chancery officials to affix the Privy Seal or the Great Seal It was also used to authenticate the sign manual (qv) Since the Great Scal Act of 1884 there has been no

use for the signet

Signet Writer to the Member of the principal class of solicitors in Scotland. They are so called because they were originally clerks in the office of the king's secretary, their duty being to prepare all warrants or charters for scaling with the king s signet. Writers to the Signet now form a society presided over by the Keeper of the Signet, who is appointed by the Crown

Sign Manual Autograph signature countersigned by one of the Sovereign which, countersigned by one of the principal Socretarics of State or by the Lords of the Treasury, must be effected. must be affixed to all writs or warrants which have to pass the Great Seal In certain cases of executive documents it may take the place of the latter

Sigurd Hero of the Völsunga Saga, and Norse equivalent of the Siegfried (q v) of Teutonic legend In the Saga, Sigurd is the son of Sigmund the Völsung, and, like Slegfried he slays the dragon, Fafnir He then Nichts his treath at the Weller Lewis 100. plights his troth to the Valkyrie Brunhild, but abandons her for Gudrun, the sister of Gunnar whom he marries Brunhild incites Gunnar sbrother, Gunthorm to kill Sigurd, and then kills herself on the latter's funeral pyre

Sikh Member of a great Indian community. The bulk are distributed throughout

the Punjab province and the Punjab states of Patiala, Nabha and Jind Sikhism was founded in the 15th century by a Guru or teacher named Nanak, on the basis of a religious brotherhood to embrace both Hindus and Mahammadans Hudar Goving Singh in and Mohammedans Under Govind Singh in the 17th century the Sikh community become the Khaisa or "property of God," and began to cherish military ambitions which were fostered later by Ranjit Singh (1780-1839), and led to the formation of a formidable army The death of Ranjit Singh was followed by two Sikh wars with Great Britain and the annexation of the Punjab In the Mutiny the Sikhs remained loval, and many fine Sikh wars to be a property of the punjab of the Sikhs remained loval, and many fine Sikhs are included in the pure and Indian American units are included in the present Indian Army

Silchester Village of Hampshire, fam Romano-British town of Calleva Atrebatum, Romano-British town of Calleva Attrebutum, called by the West Saxons, Silceastre Excavations, begun in 1890, have revealed the existence of walls, 2760 yards in length, enclosing the foundations of a basilica, a forum, a temple, baths, shops and private residences. The remains of an amphitheatre capable of scating 10,000 spectators, and of a church, probably
the century, said to be the first undisputed
Christian edifice in Great Britain have also
been found Numerous objects of interest excavated at Silchester are preserved in the Reading Museum

Silenus Woodland deliver drees my model logy, the son, according to some stories, of Hermes, according to others of Pan according to the pan according to some stories of the pan according to the pan acco Woodland delty of Greek mytho-He was companion of Dionysus and is represented as a little, corpulent old man, always drunk and carrying a skin of wine. Chief of the Sileni or older Satyrs he is sometimes shown propped up by them owing to his own inability to stand upright

Silesia District of eastern Europe A province of Prussia from 1742, Silesia was partitioned after the Great War between Prussia, Poland and Crecho-Slovakia The greater part, which remains within the German Republic, is divided into Upper and Lower Silesia, which have a combined area of about 14,000 sq m Upper Silesia is rich in coal and also produces iron and zinc Agriculture is the staple industry of Lower Silesia Pop 4,686,769 Breslau (qv) is the capital

Polish Silesia, also a great coal-mining centre, has an area of 1632 sq m and population

1,298,352

Coal-mining is also the staple industry of the Czecho-Slovakian province of Silesia, which produces, in addition, lead, iron ore, marble and slate There are extensive engineering and metallurgical industries Area 1,708 sq m, population 735,532

Silhouette Profile or shadow-outline filled in with black or other dark colour The simplest method of producing it is to cut a profile out of black paper and pasto it on a white background Before the invention of photography silhouette portraits were popular, and some very skilful ones of famous people have been preserved Silhouettes are now sometimes produced by photographic means. The name is derived from the produced by the produced Before from a French Minister of Finance, Letienne de Silhouette (1709 67), who, according to Littré, amused himself in retirement by making shadow pictures

Non-metallic element, Silicon

with oxygen, but may be separated as a dull brown powder. It was first isolated by Ber-zelius in 1823. Graphitoid and crystallised brown powder zelius in 1823 silicon are obtained from the amorphous form silicon are obtained from the chief Graphitoid silicon unlike the amorphous, re-cless the action of hydrofluoric acid The chief sists the action of hydrofluoric acid compound of silicon is the oxide silica the purest form of which, occurring naturally, is rock crystal Silica, which derives its name from the Latin silex (flint), and is largely employed in the manufacture of glass, china, and porcelain

Silk Fabric originally manufactured solely from the filament spun into cocoons by silkworms (qr) Silk is known to have been made in China many centuries before the Christian era The first silk weaving factory in Europe was established in the middle of the 6th century, and constantinople, whence the manufacture spread to the West Nearly half the commercial supply of raw silk now comes from Japan, the chief European centres of manufacture being Lyons, Milan, Turin, Zürich, Basel and Crefeld. Since 1863 the manufacture of artificial silk from nitro-collulose has progressed steadily, and has now become a very important industry

Silkworm Name given to silk-spinning caterpillars. The most common form is Bombyx morn, a native of N China, about 3 in long, and of a yellowish-grey colour It spins a yellow or white cocoon round itself. then turns into a chrysalis, which again turns into an egg-laying moth from the eggs tinsilkworms emerge which, if fed on mulborry or lettuce leaves, rapidly attain maturity and start spinning in due course

Silloth Seaport and watering place of Cumberland It is on the Solway

Firth, 22 m from Carlisle, on the LNE Rly It is the port for Carlisle, and there are docks for the shipping Good bathing and golf attract summer visitors

Silo Pit in which green fodder is stored under pressure to prevent putrefactive fermentation. The process of storing is

termed ensilage (q v)

Siloam Rock-cut pool on the SE of
lower reservoir connected with it by an aque duct, and is evidently the pool mentioned in 2 Kings xx, 20 as having been made by duct, and is evidently the pool mentioned in 2 Kings xx, 20 as having been made by Hezekiah (700 B c) together with a conduit by which water was brought into the city Scalso Nehemiah id, 15 The conduit was explored by Conder and found to be 1706 ft long and 2 ft wide, with a height varying from 1½ to 14½ ft An interesting Hebrew inscription discovered in 1880 mentions that when the tunnelling parties, working from either end, were 3 cubits apart voices guided them in completing the work them in completing the work

Silures People inhabiting the area now covered by the Welsh and English counties of Glamorgan, Breeknock, Monmouth, Radnor and Hereford They were a dark and curly-haired race, probably of non-Aryan origin, and they offered a fierce resistance to the Romans until finally subdued about A D 80 Their principal town was the Roman Venta Silurum, now Caerwent, near Chepstow

Silurian System Geological formation consisting of the rocks lying between the Ordovician system below and the Devonian above The system is represented in many parts of the world atomic weight 28.3 Amorphous silicon is including America Europe and Australia In nover found in nature except in combination Britain it occurs in North Wales and the

adjoining English counties, in the Lake District and in Scotland The strata are usually and in Scotland The strata are usually highly folded and consist largely of shales

Silvanus A god of woods and gardens in Roman mythology The name is derived from the Latin silva, a wood As pointed out by Fraver in The Golden Bough, he was also the god of cattle and was often associated with Diana in dedications

Silver Metallic element, chemical symbol Ag, atomic weight 107 88, specific gravity 10 57, meiting point 1761° F. It is the best known conductor of heat and electricity The chief sources of supply are U.S.A., Mexico, Ontario and Canada. Extracted from the ores by either amalgamation, solution or smelting silver is the principal basis of colnage in many countries and is very largely used in the manufacture of plate, ornaments and utensils of various kinds (see BIMITALLISM) Compounds of silver are numerous and import Nitrate of silver when fused forms a caustic used in medicine, and with chloride, bromide and iodide of silver is freely employed in photo and locate of silver is freely employed in photography, the three being sensitive to light and constituting, chloride and bromide of silver more particularly, the basis of most photographic plates and papers

Silver Fir Tall evergreen tree (Abies pectinata) Growing to a height of 160 ft or more with a diameter of over 6 ft it is a patter of Cantral and Southern

over 6 ft., it is a native of Central and Southern Europe It derives its name from patches of white wan on the lower sides of its needles The cones, which are about 6 in long are erect and cylindrical the timber strong, but The tree is the too soft to stand exposure

Source of Strasbourg turpentine
Silversmith Worker in silver The
trade was practised in the very earliest times, and there are many refer ences to the silversmith's trade in the Bible and in Homer The Renaissance period in Western Europe produced many skilful silversmiths, among them the great artist Benvenuto Cellini In England the quality of silver plate has been guaranteed by assay since 1300, and about 1425 marking with the silversmith's initials was enforced by law Old silver, with initials was enforced by law Old silver, with recognisable marks, now fetches very high prices

Simcoe Lake and town in Ontario, between Georgian Bay and Lake Ontario and is 30 m long and 18 m broad. In the vicinity war was waged between the Iroquois and Huron Indians, the former nearly exterminating the latter The town is the capital of Norfolk County and has a population of (1931) 5,226

Simeon charles English divine Born at Reading, Sept 24 1759, he was ordained in 1782 and appointed Perpetual Curate of Trinity Church Cambridge, a position he held until his death One of the founders of the Church Missionary Society, his preaching was characterised by an impassioned evangeli calism, and his influence was felt all over England His conversation circles "at Cam He died Nov 13, 1836 bridge were famous

Simla Town, in the district of the same name, of the Punjab, India A popular hill station and summer residence of the Viceroy Governor of the Punjab and other high officials it is situated on a spur of the Himalayas at an average altitude of 7000 ft., and is dominated by Jakko, a peak of 8048 ft. At a lower elevation is a race course There is a railway connection through Kalka with

Amballa. The distance from Delhi is 170 m. The permanent population is about 15,000, but is nearly doubled in the summer

Simnel Lambert. English impostor Lincoln's tool in a Yorkist rebellion against Henry VII He was born about 1475 Follow neary VII He was born about 1475 Following falso rumours that the Earl of Warwick had escaped from the Tower, Simnel was taken to Iroland and persuaded to impersonate Warwick He gained a large following, and was crowned as Edward VI Landing in England at Furness in 1487, he marched to Stoke, where Henry defeated him and appointed him a scullion in the royal kitchen He died in 1535

Simnel Cake Rich cake, surmounted by almond pasts and usually decorated It is associated with the observance of "Mothering" or "Refreshobservance of "Mothering" or "F ment" Sunday the 4th Sunday in Lent Simon Sir John Allsebrook

English lawyer and statesman. Feb 28, 1873, in Bath, and educated in Edinburgh and Oxford, he was called to the Bar in 1899 and rose rapidly in the profession Elected Liberal M.P for Walthamstow in 1906, he became Solicitor General in 1910, being ral in 1910, being He became Attorneyknighted the same year General in 1913, and Home Secretary in 1915, but resigned through his opposition to conscription He lost his seat in 1918, but was scription He lost his seat in 1918, but was returned for Spen Valley in 1922, which constituency he continues to represent He was appointed Foreign Secretary in the National Government formed in Nov 1931 At the reconstruction of the Cabinet in June 1935, he became Home Secretary, a post he retained after the General Election of Nov, 1935

Sir John Simon has been chairman of several Royal Commissions the most important being the Indian Statutory Commission, 1927 1930, issued the comprehensive "Simon Report " embodying recommendations for the

future government of India

Simonides Greek poet. Born in the Island of Ceos in 556 Bo, he went to Athens on the invitation of Hip-When the Persians invaded Greece parchus he wrote elegies, epigrams and dirges to cele-brate the battles fought in that struggle In a competition for an elegy commemorating the heroes of Marathon he defeated Aeschylus In poetical contests he won no fewer than fifty six times His last ten years were spent at the court of Hiero of Syracuse, where he died in 468 B C

Simonstown Naval port of South coast of the Cape of Good Hope, it is 22 m by rail from Cape Town and situated in Simon s Bay on the eastern side of the Cape Peninsula The Admiralty docks, opened in 1900, were extended in 1910, and can now accommodate the largest warships Here are a Government arsenal and important harbour works European population (1931) 2171

Simony Crime of buying or selling a presentation to a benefice Derived from Simon Magus, who thought to purchase the gift of the Holy Spirit with money, it has been contrary to English law since the time of Elizabeth A clergyman presented to a living by a patron may undertal c to resign it at a specified period

Simoom Name given to the hot desert sandstorms of North Africa and Arabia. The word is derived from the Arabic samm, "poisoning" Essentially the same as a

cyclone, a central tract of calm surrounded by swirls of hot air, the entire system moves slowly forward, generally from south to north or from east to west, and often carries with it whirling columns of sand

Simplon Mountain in Switzerland It is 11,695 ft., and the pass is 6582 ft. from Dromo d'Ossola, in Italy, to Brieg, in Switzerland It is a military road formed by Napoleon in 1800-05, 42 m long, 25-30 ft. broad The Simplon railway tunnel bands from View on the Switzerlad at Jeolla in leads from Visp on the Swiss side to Isella in the valley of the Po It was first opened in 1906 and in 1921 the second tunnel was completed.

Simpson Sir James Young Scottlsh doctor Born at Bathgate, Linlithgowshire, June 7, 1811, and educated at Edinburgh University, where he graduated in medicine in 1832, he was president of the Royal Medical Society, 1835 He specialised in obstetrics and in 1847 introduced the benefits of chloroform to the world. He published fits of chloroform to the world He published books and papers on obstetrics, anaesthesia, homoeopathy, leprosy, cholera, etc He was made a baronet in 1866 and died May 6, 1870 He was

Sims George Robert. English journalist Born in London, Sept. 2, 1847, he entered journalism in 1874 as one of the staff of Fun (now defunct) He wrote for The Referee, from its birth in 1877, a long series of springer entitled Management English journalist Born in London, a long series of articles entitled Mustard and Cress, using the pseudonym Dagonet. Among his plays are The Lights of London, Harbour Lights, Faust Up to-Date, and among his books, How the Poor Live, The Dagonet Ballads and My Life (1917) He died Sept. 4, 1922

Sin Gullt before God or the gods Some doctrine of sin and of escaping its penalties forms part of most religions, ancient and modern It is not defined in the Scriptures, but appears as the element in man which puts him at enmity with God and requires the work of a Redeemer for its atonement ment

ment
The Christian Church has always held that sins may be divided into "mortal" and "venial" sins The seven "mortal" or "deadly" sins are anger, lust, gluttony, sloth, pride, envy and avarice "Original sin" is the Christian doctrine that all mankind fell with Adam's first sin, but that the whole world was redeemed by the sacrifice of Jesus Christ Most Christian Churches, notably Roman, Greek and Anglican, believe that the taint is washed away from the individual in baptism

Sinai Peninsula of Egypt At the head of the Red Sea, lying between the Gulfs of Sucz and Akaba, it possesses an area of 11,055 sq m, mainly desert The Mount Sinai of the Bible is generally identified with Jebel Catherina in the south of the Peninsula (8550 ft), which has two peaks, Mount Horeb and Jebel Musa, or the Mountain of Moses, the latter supposed to be that on which Moses given the tables of the Law The Peninsula Catherina in the tables of the Law The Peninsula Catherina in the tables of the Law The Peninsula Catherina in the sales of the Law The Peninsula Catherina in the sales of the Law The Peninsula Catherina in the sales of the Law The Peninsula Catherina in the sales of the Law The Peninsula Catherina in the sales of the Law The Peninsula Catherina in the sales of the Law The Peninsula Catherina in the sales of the Law The Peninsula Catherina in the sales in the was given the tables of the Law The Peninsula, which belongs politically to Egypt, is inhabited by Bedawin nomads In the Great inhabited by Bedawin nomads. In the Great War it was occupied by the Turks against whom Sir A Murray advanced in 1916 after the construction of pipe and railway lines across the desert Defeating them in the battles of Romani and Magdhaba, he finally cleared them out of the Peninsula by his victory at Rafa on Jan 9, 1917

Sinclair Sir Archibald Henry MacDonald British politician Born Oct 22, 1890, he was educated at Eton and Sandhurst

and entered the army in 1910 In 1912 he became a baronet, and he served in the Great War with the Life Guards M P for Caithness and Sutherland since 1922, he is a prominent member of the small group of Liberals in the House of Commons For a time he acted as chief Whip of the party and in 1931 he joined the National Government as Secretary of State for Scotland, resigning in Sept, 1932

Sind Province of India in the north of the Bombay presidency Formerly part of the Mogul empire, it was ruled by local dynasties at the coming of the British The

of the Mogul empire, it was ruled by local dynasties at the coming of the British The E India Company established a factory at Tatta in 1758, but it was not till the 1830's that the British secured a real foothold, annexng the province in 1842 Primarily agricultural, Sind produces rice, cotton and wheat, and exports, besides these, wool, flour and hides There are cotton mills, mainly at Hyderabad and famous pottery, leather and carpet industries Karachi (g v)

leather and carpet industries Karachi (q v) is the capital. The area under cultivation has been vastly increased by the construction of the Lloyd Barrage at Sukkur (q v) with its yest irrigation scheme Area 46,986 sq m Pop (1931) 3,885,308

Singapore Island and scaport of the Straits Settlements A British possession, with an area of 225 sq m and a population of (1932) 588,172, it is a coaling station and one of the chief ports of the east There are fine docks and some industries, including the world's largest tin-smelting works. The city is modern and up-to-date. The island was formally included in the British Empire in 1824, the city having been founded five years previously by Sir Stamford Raffles (qv) Raffles College and Raffles Museum are among its important buildings. In 1993 it. was its important buildings In 1923 it was decided to make Singapore a naval base A floating dock was sent out in 1928 There is a broadcasting station (41 7-M)

Singer Isase Merrit. American inventor Born at Oswego, N.Y., Oct. 27, 1811, after many years' experimenting, he evolved, in 1851, the first practical single-thread chainstitch sewing machine, much superior to Elias Howe's crude model produced in 1846 He established a factory in Elizabethtown, N J and now the Singer Company owns 9 factories in different countries He retired wealthy, and died in Torquay, July 23, 1875

Singlestick Method of fencing, being the successor of the old time cudgel play The weapons used are ash sticks with hilts of basket work which protect the head and the control of the con the hand, and the exercise is used to aid the practice of light sabre play The movements are simple, consisting of six cuts only.

Single Tax Economic system by which all revenue is raised by a tax on land. It implies universal free trade, and is based on the assumption that all men are entitled to equal use of the land As this is impossible in practice, the single tax would be collected by appropriating the economic rent of land and leaving to landowners the value of their own improvements was developed by Henry George

Sing Sing State prison of the USA

was developed by Henry George
Sing Sing State prison of the USA
Sing Sing It was built in 1825 and is
situated 30 m from New York, the name is
derived from the Sin Sinck Indians The
village of Ossining in Co Winchester was
formerly known as Sing Sing
Sinking Fund Term meaning a sum
of money devoted to

repaying a loan. In Great Britain the first was established in 1786, when a sum of £1,000,000 a year was set aside to reduce the National Debt. Loans raised by local authorities and other bodies are also repaid by means of a sinking fund.

As regards the national debt of Great Britain the principle is now to devote an annual sum for the service of the debt. Part of this goes in interest and the balance is devoted to repay ment Thus the amount devoted to repay ment increases as the amount required for interest decreases. The Sinking Fund is used for the purchase of stock in the open market

Sinn Fein gelew words meaning "Our selves alone" adopted by the Irish Nationalist movement at the beginning of the 20th century Originally it confined itself to the revival of the Irish language and literature, but later it grew into a determination to throw off the British yoke This culminated in the Easter rebellion of 1918 after which some prominent Sinn Feiners were shot and many others imprisoned At the election of Dec, 1918, the party was returned with a largo majority, and a period of guerilla warfare and terrorism ensued See Irish Free State

Sinope Turkish town of Asia Minor situated on the Black Sea It was the most important of all the Greek colonies and after 632 B c became the greatest commercial city on the Eurine It was captured by the Turks in 1470 and was bombarded by the Russians in 1915 It is a large port with considerable trade Pop 9260

Sinus Medical term for any cavity filled with blood or air, in surgery especially a cavity containing pus Try cavities of the nose are liable to infection giving rise to discharges and other disorders often referred to as "sinus trouble" Medical treatment is essential

S10UX American Indian tribe of the North Calling themselves Dakotas, they included the Assiniboins and several other tribes

Sirdar Official title for the commander in-chief of the Egyptian army The name is derived from the Hindu Lord Kitchener (qv) was a notable holder of the title

Siren Sea nymphs of classical mythology whose sweet singing lured listeners to their doom Odysseus circumvented their magic by filling his sallors ears with wax as they approached the Island and binding himself to the mast. Their end was due to Orpheus, whose singing surpassed their own, so that they throw themselves into the sea and were turned into rocks

Sirhowy Sixtact of Monmouthshire situated in the coal mining area, its main industry is ironworking. It is served by the LMS Rly The river of the same name on which the town stands, is a tributary of the Ebbw

S1r1us Star known as the dog star The brightest star in the sky its light is more than 30 times as powerful as that of the sun — Its distance from us is nearly nine light years

SITOCCO Hot dry wind from the south The term is used chiefly on the northern shores of the Moditerranean It has a disastrous effect on vegetation and can ruin fruit trees when they are in bloom.

Sisterhood Name given to a community of women living under a rule, to be distinguished from enclosed nuns. Their aims are usually charitable and include nursing the sick, teaching, and ministering to the poor. The first sisterhood, known as the Daughters of Charity, was established by S Vincent de Paul in 1633. Among the most familiar in existence to day are the Sisters of S John the Baptist, generally known as the Clewer Sisters, and the Wantage Sisterhood in Berkshire.

Sistine Chapel Pope's private chapel in the Vatican One of the artistic gems of the world it was built by Sixtus IV in 1480, and is decorated with freescoes by Michelangelo and other famous artists Raphael designed the tapestries, some of which are now in the Victoria and Albert Museum, London The Sistine Choir—which slngs in the Sistine Chapel—is one of the most famous choirs in the world

Sisyphus In Greek legend, son of Aeolus, and King of Corinth His life was so wicked that in the lower world he was given the endless task of rolling a great marble block up a hill As soon as he reached the top it rolled down again and he had to begin once

more

Sitting bourne Urban district and market town of Kent Situated on Milton Creek, it is 45 m from London on the S Rly and not far from Canter bury It has brick works and manufactures paper There is also some shipping, for the Swale, of which Milton Creek is an arm, connects it with the Medway and the Thames The urban district is Sittingbourne and Milton Pop (1931) 20 175

Pop (1931) 20 175

SiVa (or Shiva) One of the chief triad of gods in Hindu mythology He is symbolical both of death and of reproduction and his worship is a type of phallicism His representations show him with four hands and three eyes, garlanded with skulls and armed with weapons of destruction Sometimes he is shown dancing on a prostrate body, but more often in contemplation Kall is his wife

Sixth In music, an interval of six notes of the scale It may be a major sixth, a minor sixth, or an augmented sixth

S1Xtus Name of five popes The two best known are Sixtus IV and Sixtus V Sixtus IV, originally Francesco della Rovere was born in 1414 The son of a fisherman, he entered the Franciscan order, rose to be its general, and gained wide fame as a preacher He was elected pope in 1471 A warm patron of art, he furthered education and did much for the beautifying of Rome He built the bridge over the Tiber and a chapel in the Vatican, both called Sistine after him He died in 1484

Sixtus V was one of the abiest and most vigorous of all the popes Born in 1521 his original name was Felice Peretti Entering the Franciscan order early, he became its Vicar General He was elected cardinal in 1570 and pope in 1585 His first care was the suppression of lawlessness in the Papal States and in Rome itself He made many improvements in the city and used every means to extend the power of the Roman Catholic church over the world He published new editions of the Septuagint and the Vulgate He died in 1590

Sizar Student either of Cambridge or Dublin Universities whose fees are reduced because he holds a sizarship, i.e. is

entitled to certain benefactions. In old days this meant an allowance of food and drink, and was called "size," in return for which he performed certain services. The equivalent at

Oxford is a servitor
Circ Glutinous materials Many of them are preparations of glue or flour used

The size used by painters is a glue which contains too much water to become hard Size is also used to strengthen the threads of textile fabrics, such as linen To make this, starch, with oil or tallow added, is used, an antiseptic being introduced to prevent mildew Starches made from search to have a resometimes. made from sago, taploca, etc, are sometimes

used

Skagway Seaport of Alaska, the ter-yukon A small place, it yet has some im-portance as the centre for the distribution of supplies to the Klondike It owed its settlement in 1898 to the discovery of gold there in 1896. Pop 1000

Skald Scandinavian or Icelandic musician and poet, the equivalent of the Scottish bard. His role was to sing the exploits of national heroes at feasts or assembled. blies, usually accompanying himself upon the harp

Skate Food fish (Raia) of the class Elasmobranchii One of the cartilaginous fishes, its body is flattened in the dorso-ventral plane, and there is a long tail The snout is triangular, the mouth and nostrils being on the ventral side There are several British species, the commonest being Raia batis, up to 4 ft long

Skating Form of locomotion on ice Skating Form of locomotion on ice the times of the early Norsemen, who used bone-runners on their shoes for crossing lee Nowadays, skating has become a popular, world-wide sport, both with metal-runners on the shoe, or rollers Speed-skating and figure-skating championships are held, and these have usually been won by fensmen, who live where ice is plentiful A great vogue for skating has recently spread over England, nonularising such sports as dancing upon ice, popularising such sports as dancing upon ice, and ice-hockey Figure-skating has become popular among women, the woman worldchampion is Miss Sonja Henie, of Norway

Skeleton Biological term for the hard part of plants and animals supporting the soft tissues. In the lower animals, it is mainly an outer covering, as in insects. In higher animals the bones are covered by the soft tissues, and are formed largely of deposits of calcium phosphate.

Skegby Town of Nottinghamshire, on the LNE Rly, 18 m from Nottingham and 142 m from London It is in the

middle of a coal mining district

Skegness Urban district and watering place on the coast of Lincolnshire It is served by the LNE RIV and is 24 m. from Boston In the Middle Ages there was a flourishing port here, but it was engulfed by the sea in the filteenth century. There are fine sands Pop (1931) 9121

Skelmersdale Urban district of Lancashire, near Ormskirk

and 200 m from London, on the L MS Rly It is an industrial centre with coal mining and brick making industries Pop (1931) 6177

Skelton District of Yorkshire, forming part of an urban district known as Skelton and Brotton, served by the LNE

It is the centre of an ironstone mining district Pop (1931) 13,654

Skerries Seaport of Ireland, in Co Seaport of Ireland, in Co Dublin, 18 m from Dublin City Stone is quarried in the neighbourhood, and there is good fishing Pop 1800 The name is also given to a group of small islands off the coast of Dublin Skewen District of Glamorganshire It is situated on Swansea Bay, 193 m from London, on the G W Rly There are coal mines in the neighbourhood.

coal mines in the neighbourhood The chief industries are the refining of oil and the smelting of copper

Skiagraph X-ray photograph The word is derived from two Greek words meaning shadow and write modern term for it is radiograph

Skibbereen of Co Cork, Irish Free Corks and trades in corn and livestock. It is served by the Gt S Riys Pop 3640 Market and seaport town

Skiddaw Mountain of Cumberland It reaches a height of 3054 ft.

Ski-ing Popular winter sport The word is derived from the Norwegian snow shoes or "ski" This method of travelling is a necessity in snow covered countries, as in polar expeditions The ski are long strips of wood curved in front and strapped. long strips of wood curved in front and strapped to the foot Poles with a circular piece of metal at the end to prevent them from sinking into the snow are carried for steering and braking Racing and jumping competitions are held in Norway, Switzerland and other countries

Tissue covering the flesh of the body This has two lavers, the top Skin body one being the epidermis, known as the cuticle or scarf skin, and the dermis, or true skin The latter is richly supplied with blood vessels

latter is richly supplied with blood vessels
Besides its protective work, the skin acts as an
organ of excretion by means of the sweat
glands, and thus helps to regulate the temperature of the body Sec Perspiration
Skin Disease There are various kinds of
skin disease to which children, particularly, are
subject. Skin trouble is difficult to cure, and
a doctor should always be consulted The
sores should be cleansed with olive oil and not
worshed with ordinary soan and children must washed with ordinary soap, and children must be prevented from scratching them

Skin Soreness The tender skin of a baby is liable to become sore from the napkin unless very soft muslin is used Sore places should be smeared with white vaseline or olive oil and not washed Some babies get rashes and spots from too much acld in the blood caused by excess of sugar in the diet Treat as for soreness and remedy the cause.

Skinner Dealer or worker in skins As distinct from a tanner who is concerned only with the hide, a skinner deals with furred skins The Skinners Company was incorporated in 1327, and has done much in the cause of education Tonbridge School is one of their foundations

one of their foundations
Skipton Urban district and market town
Skipton of Yorkshire (WR.) It stands
on the Aire, and is served by the LMS Rlv
It has cotton and woollen mills, and some
trade in corn There is a 16th century grammar
school and the ruins of a Norman castle, partly
restored Pop (1931) 12,434
Skittles Game resembling ninepins It
consists in flinging a bowl at

1138

four skittles, set up in a diamond pattern, with the object of knocking them all over The bowl weighs about 10 lb and is shaped like a cheese The skittles are also large and heavy The throw is made from a distance of 21 ft.

Skua Genus of birds (Stercorarius) allied to the gulls Some species follow gulls or other birds and cause them to disgorge food they have swallowed, which the skua then consumes Two species breed in N Britain the great skua (rarely) and Richardson's skua. The former is 22 in long, with mottled dark brown plumage, the latter, slightly smaller, is

a dusky brown The skeleton of the head of the higher animals In man it con Skull sists of the 8 bones of the cranium enclosing the brain, and the 14 bones of the face cranial bones are specially developed to protect

the brain

Skunk (Mephitis) Genus of small car nivorous animals a malodorous secretion from two glands situated near the tail when attacked or angered M mephitica, common in Central and N America, is about the size of a domestic cat The fur is thick and soft and handsomely marked in black and white, the tall being thick and bushy The pelts are commercially valuable

Skye Largest island of the Inner Hebrides It is part of the county of Inverness Possessing an area of 643 sq m and a popula tion of 14 780, it has only one town, Portree (qv) The inhabitants are occupied in farming and fishing The island is wild and beautiful, the Coolins rising to over 3300 ft. There is steamer communication from Portree with Glasgow, Oban and other ports

Skye Terrier Sporting dog In favour as a house dog and pet, it was originally bred in the island of Skye

it was originally bred in the island of Skye where it was used for hunting. It has a long, silky coat of a silvery blue-grey, and is built with short legs and a long, low body. There are two types the lop-eared and the prick cared. The former has straight hair. The prick

sared The former has straight that The price cared should have a thicker, rougher coat

Skylark Passerine bird (Alalauda arcensis), native of Europe and

Asia It makes its nest of dry grass in a shallow depression on grass land The plumage is warm brown above with black streakings, yellowish white beneath the chin and breast being buff with darker streaks. The length is 7 in The lark is noted for its pleasing song uttered on the wing as it hovers high in the air

Skyscraper Type of building designed with many storeys in order to save ground space in large cities. The idea originated in America and has been adopted with modifications, by other countries The world s greatest skyscrapers are in New York and Chicago where there are several that are 800 and 900 ft high The Empire State building in New York is 1248 feet high.

Slade Felix English collector Born in 1790, he was very successful in business and retired with a large fortune This he devoted to purchasing works of art, and in time his collection of glass pottery manuscripts and engravings became pottery manuscripts and engravings one of the finest in the country. He died March 29 1868

Slade left money to found professorships of fine arts at the Universities of Oxford, Cam bridge and London The Slade School, a branch of University College, London, also owes its

existence to him It was opened in 1871 and is one of the chief centres for the teaching of art, having courses in all branches of drawing. painting and sculpture

Slaithwaite Market town and urban district of Yorkshire It is 4 m from Huddersfield, on the LMS Rly A canal also sorves the town, which is on the River Colne The making of woollens is the main industry Here are baths, the waters of which are suitable for skin complaints regional broadcasting station for the North of England is on Slaithwaite Moor Pop (1931) 5081

5081
Slander Malicious and untrue statements spoken and not written A person who is slandered can bring an action for damages, but slander is usually very difficult to prove The slandered can bring an action for damages, but slander is usually very difficult to prove The words must have been spoken in the presence of a third party and must have injured the slandered person financially, or in some other way, by solling his personal reputation, or his reputation as a public official A woman can bring an action for slander if any one makes a reflection on her chestity. reflection on her chastity

Slaney River of the Irish Free State. low, it flows through counties Carlow, and Wexford into the harbour at Wexford, which stands at its mouth. Its tributaries include the Derry, Bann and others. Salmon are found in the river It is 60 m in length

Slang Colloquial language It probably originated in the thleves largon of the 14th-15th centuries. Its vitality and expressiveness have brought it into use even among educated people and slang expressions often become standard English through literary use The first known use of the word is in a work of 1756

Slate Hard kind of shale rock. Split into thin sheets, it is used mostly for roofing purposes A piece of slate enclosed in a wooden frame also forms a tablet for writing

A slate club is one whose members pay weekly contributions into a common fund as an insurance against sickness or unemployment, or to provide a lump sum. The name is derived from the fact that originally these payments were chalked up on a slate Slate clubs are conducted by tradesmen, clubs and charitable organisations

Slaughter House Chattle are slaughtered for food Owing to the insanitary nature of many of them laws have been passed regulating them and, especially in the towns, numbers of them have been closed. Their place has been taken by abattoirs. See Abattoir

Slav Peoples of Eastern Europe The classification of the group is by language rather than by racial characteristics language rather than by racial characteristics It includes such peoples as Russiaus, Poles, Czechs, Slovaks, Yugoslavs, all of whom speak dialects of the Slavonic sub family of Indo European languages In the pre Christian era they were mostly nomadic peoples, existing by fishing and hunting, and using primitive weapons in war They came originally from the country N of the Carpathians. In addition to the Slavs of Europe, America has some 8 000 000 in her population

8 000 000 in her population
Slave River of Canada, connecting Lake
Athabasia and the Great Slave
Lake Its length is 306 m., of which 190 are navigable

The Slave Coast is a portion of the Guinea

Coast in W Africa, bordering the Bight of bear some resemblance to influenza. Lethargy Benin Its name is derived from the fact that and come are subsequent developments, while this region was the haunt of the slave traders dementia may be exhibited in acute attacks

until the trade was abolished It is divided between Great Britain and France

Slavery Condition of bondage In this condition human creatures are bought and sold and forced to work without payment It has existed from the very earliest times, and still exists in some countries, though most civilised states have abolished it It was abolished in the British Empire in 1833 and abolished in the British Empire in 1833, and in the USA in 1865

Slaves were frequently prisoners of war Other sources of supply were debtors and felons, or children sold by their parents. The negro slaves of the USA were originally kidnapped from their native country by slavers and sold at a high price In Greece and Rome the slave class was very large and was, on the whole, treated with humanity Slaves could purchase their freedom by a certain term of work or by some special service to their owners, as well as by payment

Sleaford Market town and urban district of Lincolnshire It stands on the little River Slea, 112 m from London and 21 from Lincoln, and is a junction on the LNE Riv It is the chief town of the division of Kesteven Sleaford is an agricultural centre, with brewing and malting industries There with brewing and malting industries Ti was a castle at one time Pop (1931) 7024

Sledmere Village of Yorkshire (ER) It is 8 m from Driffield, and has a station (Sledmere and Fimber), on the LNE Rly Sledmere Park, long the seat of the Sykes family, is famous for its stud of horses established by Sir Tatton Sykes (1772-1863)

Sieep Period of unconsciousness During this period the body rests and the brain ceases working except in dreams A certain minimum of sleep is essential for the maintenance of life and health, in order that the body tissues may be renewed The amount required varies in individual cases

\*\*SLEEPLESSNESS\*\* Treatment\*\*—A hot bath, or even a hot foot bath, will often induce sleep, and the bed should be warm and comfortable and the room airy Cold feet are a frequent cause of sleeplessness, so a hot bottle should be used Stimulating drinks such as tea, coffee or alcohol of sleepiessness, so a not bottle should be used Stimulating drinks such as tea, coffee or alcohol should, of course, be avoided, but hot milk, sipped after retiring, has a sedative effect Drugs should never be taken except by the doctor's orders See INSONNIA

Sleeping Sickness Disease pre-tropical Africa Especially frequent in Uganda and the Congo, it is now known to be due to a blood parasite called the trypanosome, and to be carried by the tsetse fly It is characterised by great wasting and weakness, culminating in the lethargy and somnolence which here given the disease its name Recent research hes discovered one days Bayer 205 research has discovered one drug, Bayer 205, which produces good results and a fair percentage of cures, but the disease is at all times a grave one Much depends upon early treatment

Sleepy Sickness Disease of the Sleepy Sickness brain (Encephal-Sleepy Sickness brain (Encephalitis letharmea) accompanied by marked physical
and mental inactivity. The causative virus is
unknown. It occurred on the continent of
Europe in 1916-1917, and in England in 1918,
and at times since, with fatal results in many
cases. In the early stages mild attacks may

Attacks may recur after a considerable time
At present no specific remedy is known
Slesvig District of S Denmark, called
Schleswig by the Germans With
the neighbouring Duchy of Holstein it was
taken by Prussia and Austria after a short war taken by Prussia and Austria after a short war in 1864, with the King of Denmark, Frederick VII Two years later, in 1866, there was a war between Austria and Prussia and the duchies were made a province of Prussia as Schleswig-Holstein The province covered 5800 sq m, and remained in the German Empire until 1919, when, after a plebiscite, the northern part was returned to Denmark This area covers 1500 sq m The little town of Schleswig, which was the capital of the province, is in the small part of Schleswig which remained small part of Schleswig which remained German

Slieve Bloom Range of hills between the counties of Onaly and Leix, Irish Free State is 1733 ft The highest point

Slieve Donard Mountain of County Down, Northern Ire-land It has an altitude of 2798 ft., and is the highest point in the Mourne Range

highest point in the Mourne Range
Sligo Seaport and market town of Co.
Sligo, Irish Free State, it is also
the county town It stands where the River
Garrogue falls into Sligo Bay, 134 m from
Dublin, on the Gt S Rlys It has a good
harbour, from which a large supply of produce
is exported to Liverpool, Glasgow and elsewhere Other industries are flour milling and
fishing Pop. (1926) 11.437

fishing Pop (1926) 11,437

Sligo County of the Irish Free State In the west of the country, it has a coastline on the Atlantic Ocean where are Sligo and other bays The interior is hilly and the soil poor It contains the rivers Moy, Owenman Fester and others. In the country of the soil poor it contains the rivers Moy, Owenmore, Easky and others In the county are Loughs Arrow and Gill Sligo is the county town, other places of importance being Tobercurry, Ballymote and Collooney Its area is 707 sq m and it includes Coney, Inishmurray and other islands The chief industries are cattle rearing, potato growing and fishing. The county is served by the G.S Rlys Pop. 71 202

71,388
The title of Marquess of Sligo has been held by the family of Browne since 1800. The marquess is also Earl of Clanricarde and Earl of Altamount, a title given to John Browne in 1771 His eldest son is called the Earl of Altamount.

Sloane Sir Hans Irish physician, natura-list, collector He was born in Iro-land on April 16, 1660, and studied medicine in London, subsequently travelling and collecting London, subsequently travelling and collecting plants, books, and miscellaneous curiosities He occupied the position of physician to Christ's Hospital President of the Royal College of Physicians, President of the Royal Society and other important posts, and was made a baronet in 1716 His memory is kept alive by his marvellous collection which, bought by the nation after his death for £20,000, proved the beginning of the British Museum. His name is perpetuated in Sloane Square and Sloane Street. He died on Jan 11, 1753

slee gin

Sloop Fore-and aft rigged, one-masted resel Carrying a lib, fore staysall, mainsail and gaft topsall, in the nevy a sloop is a small, light vessel used for special duty, en, surveying

Sloth of the family Fdendate. There are two species, Bradypus and Chologopus, the former with three toes and the latter with two both found in the forest regions, where they feed on leaves fruit and young shoots. The limbs have hook like toes with long curved claws, adapted to the animal's habit of hanging inverted from branches The coarse long hair is covered with algae which impart to it a greenish hue

Slough Urban district and market town of Buckinghamshire Situated 2 m from Windsor, and 181 from London on the GW Rly, it is a residential district, but has numerous industries the principal one being engineering Pop (1931) 33,530

Slovak People of Slav race found chiefly about 2 500,000 One of the provinces of Czecho Slovakia. Before the foundation of the new republic in 1919 the Slovaks were under Hungarian rule CZECHO SLOVAKI V

People of Slav origin found in Yugoslavia. They number Slovene something over 1,000,000 and are Roman Catholics After having been Roman Catholics After having been in the empire of Austria Hungary they united with others and formed Yugoslavia, which is properly the kingdom of the Serbs, Croats and Slovenes Sce Yugoslavia chiefly

Slow-worm legless lizard, also known, from its tin, eyes, as the blind worm. It is brownish black in colour and is common in Britain

Slug snail like land molluse Usually without a visible shell in some slugs there is a small internal shell, and in one carnivorous species the tail carries a tiny shell Many slugs feed on lichens and fungi During the winter they rest under stones or in the ground

Sluys Battle of Naval battle It was fought between England and France on June 24, 1340, at the mouth of the river Sluys in the Netherlands, after the French had done serious damage in S E England Edward III, with a fleet of some 250 sail attacked the french fleet, numbered about 190 sail. The fight resulted in a crushing defeat for the French fleet, of which only 24 ships were able to escape

Small Arms Term used to denote such weapons of war as can be used and transported by a single man. It is applied nowadays to rifles revolvers, and other light portable firearms as distinct from heavy artillery, and also to swords, lances, bayonets, and other thrusting, cutting or stabbing weapons and even to machine guns as using small arm ammunition

Small Holding Piece of land used for By Figlish law a small holding is defined as a plot not more than 50 acres in extent and rented and cultivated by an agricultural worker It is thus midway in size between a farm and an allotment. County councils have power to acquire land for small holdings In 1932 there

It is utilised, however, in the preparation of 1931 there were 75,850 in Scotland ALLOTMENT

Smallpox Highly contagious disease It is characterised by fever and the appearance of small spots leaving scars in the form of pits Native races are far more susceptible to it than are Europeans The symptoms include chill, headache, and back ache The spots appear about the fourth day There are several varieties of the disease, such as confluent smallpox, in which the symptoms are very severe, the spots appearing in con thuous patches, and haemorrhagic smallpox, in which bleeding into the pustules occurs

(Polygonum hydropiper)
Annual herb Belonging Smartweed to the order Polygonaccae, also known as water pepper, the plant contains highly acrid juices and is employed in medicine as a diuretic It is found in the north temperate hemisphere The flower sprays are a rosy green in colour

Smell Quality possessed by many sub-stances that affects the olfactory nerves of animals The sense organs of smell nerves of animals are located in the mucous membrane of the nose, over part of the nasal septum and upper turbinal bone and consist of special nerve cells, which by means of the olfactory nerves, convey the stimulus to the olfactory lobe of the brain In the lower animals and man in a savage state the sense of smell is more acute than in civilised mankind

Smelt (Osmerus) Genus of small sea fish Belonging to the salmon family, the best known species, and the only one found in European waters, is the common smelt (O perlanus), which is abundant in the seas and brackish waters of Britain Silvery grey in colour, with a greenish back, it has a delicate flavour

Smelting Process by which metals are extracted from their ore. This is done by fusion in special furnaces Smelting is carried out by the aid of some reducing agent such as carbon or carbon monoxide, but the process varies in character according to the

metal and the nature of the ore

Smethwick County borough of Staf
fordshire It is in the It is in the Birmingham area and is 115 m from London on the LMS and GW Rive There are negtne works, and other industries Pop (1931) 84,354

Smiles Samuel Scottish author and blo grapher Born on Dec 23, 1812, he graduated in medicine at Edinburgh University at the age of twenty Practising first in his native town, Haddington, and then in Leeds he later abandoned medicine for literature his first post being the editorship of the Leeds Times He wrote biographies of George Stephenson and many others but was best known as a writer of a series of books on character building, the first of which, Self Help had an enormous circulation. It was followed by Character and Thrift. He died on April 16, 1904.

Smille Robert Labour leader Born on

Smillie Robert La 17 1859, in Belfast of Scottlish parentage, he began working at eleven in a factory, later in a Clyde shipyard and subsequently in Lanarkshire coal mines President of the Scottlish Minors' Federation from 1921, M P for Morpeth 1923 1929, he has since retired from public life He was the lender in the great coal strike of 1912. He is the author of My Life for Labour

acquire land for small holdings. In 1932 there Smirke Sir Robert. Length architect were 390,469 small holdings in Fugland and in Smirke Born in London in 1780, he be

came an R.A in 1811, and was knighted in 1831 Many important buildings in London are of his creation, such as the British Museum, the Royal Mint, the Royal College of Physi-cians, the Carlton Club, and Covent Garden Theatre He restored York Minster after the fire in 1829 He died at Cheltenham, April 18,

Smith Adam British economist Born at Kirkcaldy, June 5, 1723, he was educated at Glasgow and Balliol College, Oxford. A friend of David Hume, he became Professor of Moral Philosophy at Glasgow in 1751 and published his *Theory of the Moral Sentiments* in 1759 Turning to economics, he published in 1776 The Wealth of Nations, which, as the first scientific exposition of the principles of published and provided the principles of the principles o ciples of political economy, had a far-reaching influence, and has been translated into many languages Running counter to the prevailing economic theory, it postulated freedom of trade and circulation of gold as the bases of national prosperity, and influenced Pitt and subsequent English statesmen in their policy of modifying tariffs and making commercial treaties between England and other nations He died July 17,

Smith Alfred Emanuel American politi-cian Born in New York, Dec 30, 1873, of Irish parentage, he entered politics in 1895 Elected to the NY State Assembly, as a Democrat, in 1903, he became Speaker in 1913, Sheriff of New York in 1915, and in 1918 he was elected Governor of NY State, an office he held four times In 1928 he secured the Democratic parimation for the Presidency. the Democratic nomination for the Presidency. but was defeated by the largest majority ever recorded in a Presidential election

Smith Sir George Adam Scottish theologian and divine Born in Calcutta, Oct 19, 1856, he was educated in Edinburgh, Tühingen and Leipzig, and became a minister of the Free Church of Scotland in Calcuttant in the Near East 1880 He travelled widely in the Near East and in America, and lectured at the universities of Johns Hopkins, Yale, Chicago, and Berkeley He was elected Moderator of the General Assembly of the United Free Church of Scotland for 1916-17 From 1909 to 1935 he was Principal and Vice Chancellor of Aberdeen University, receiving the honorary degree of D D in 1931 He has written many books on Old Testament exegesis and other religious subjects

Smith John British settler Born in Lincolnshire, 1579, of good parentage, he led a most adventurous life as one of with a number of leading Englishmen, in-corporated as the London Company, in the establishment of a settlement in Jamestown His most famous adventure was his rescue from death by Pocahontas, a girl of about 13, and his subsequent adoption by the tribe He died in June, 1631

Smith Sydney English journalist and divine Born on June 3, 1771, he was educated at Winchester and Oxford, and ordained in 1794 He was engaged in clerical work in Edinburgh, 1798-1803 In 1802, in conjunction with three others he founded the Edunburgh Review, which continued until 1930 For 20 years he was Vicar of Foston, Yorks, and in 1831 he was appointed Canon of St Paul's Cathedral In addition to his contributions to the Edinburgh Review he wrote many articles, both serious and humorous He many articles, both serious and humorous He was famous for his wit and reforming zeal He died on Feb 22, 1845

Smith William Henry English politician Born in London on June 24, 1825, he was the son of W H Smith, founder of the well-known distributing firm, in which he became a partner, and which, under his guidance, became the largest British agency for the distribution of newspapers and magazines He was MP for Westminster 1868, Secretary to the Treasury 1874, First Lord of the Admiralty 1877, and under Lord Salisbury in 1886, First Lord of the Treasury He died on Oct 6, 1891. A peerage in her own right was conferred on his widow, with the title of Viscountess Hambledon

Smith Sir William Sidney British sailor ing the navy at eleven he was captain at 18 He was knighted for his services to Sweden in her which he became a partner, and which, under

was knighted for his services to Sweden in her war against Russia, 1790-92 In 1799, after capturing the French ships, he compelled Napoleon Bonaparte to raise the slege of Acre (Northern Palestine), and subsequently served in Egypt, Sicily, Naples, etc. He was made an admiral in 1821 He died May 26, 1840

Smith-Dorrien Sir Horace Lock-general Born May 26, 1858, he entered the army in 1876, and served in Egypt, the Sudan, 8 Africa and India In Aug, 1914, he was in charge of the 2nd Army Corps, bearing the brunt of the enemy's attack at Mons Later he commanded his corps on the Marne and on the Aisne, and in Flanders In April, 1915, he was in charge of the Home Defence armies From 1918-23 he was commander-in-chief at Gibraltar

He died Aug 12, 1930
Smithfield District in London South of Farringdon Street Station it is famous for its meat and other markets. The site has a varied history. Originally it was used for tournaments and fairs, and later for executions and as a place for burning heretics. The Smithfield Club dates from 1798. The famous Smithfield fat stock show was held at Smithfield from 1799 until 1862, when the venue was changed to the Agricultural Hall, Islington

## Smithsonian Institution

American scientific institution American scientific institution Founded in Washington, DC, under the will of James Macie Smithson (1765-1829), it was established by Act of Congress in 1846 The Smithsonian has an increasingly wide range of scientific activities to its credit These include the buildings and research work of the Weather Bureau, the National Museum, the Bureau of Ethnology, the National Zoological Park the Langley Aerodynamical Laboratory, and the Aerophysical Laboratory Funds have been added to the original bequest. Founded in been added to the original bequest.

Smoke Volatile matter formed by the imperfect combustion of wood, coal or other fuels, and consisting largely of particles of carbon and hydrocarbons along with various assessment of the carbon and support of the carbon and hydrocarbons along with various assessment of the carbon and the carbon and the carbon are carbon and the carbon are carbon as the carbon are carbon are carbon as the carbon are carbon are carbon as the carbon are carbon are carbon as the carbon are carbon are carbon as the carbon are carbon are carbon are carbon are carbon as the carbon are particles of carbon and nymborhoods along with various gaseous products Bituminous coals, having a high percentage of volatile matter, are productive of considerable smoke when burnt in ordinary fire grates but the use of proper stoves and furnaces, especially of the coals and anthrealth of five with steam coals and anthracito as fuel, practically eliminates smoke The need for practically eliminates smoke Inc need for the abatement of smoke has brought about legislation in the form of regulations under the Public Health Act, 1875, and a special Act relating to London in particular Smollett George Tobias British author Born in 1721, he was educated as a doctor, but being unsuccessful in practice,

he embarked upon a literary career by which he made himself famous His writings were many and varied, the most important being Roderick Random (in which he describes some

Roderick Random (in which he describes some of his adventures as a ship's surgeon). The Adventures of Percerine Puckle The Expedition of Humphrey Clinker, and Matthew Bramble He died on Sept. 17, 1771

Smuggling Breach of the revenue porting or exporting prohibited goods, or by evading customs duties the practice flourishes chiefly where high duties make it worth while to run rights. Among the commodities smurgled. to run risks Among the commodities smuggled. prandry, wines tobacco, and tea have figured prominently. In former times the coves round the coasts of Devon and Cornwall were infested by smugglers. The Smugglers' Act of 1736 made smuggling a felony, and the practice was further dealt with practice was considered. further dealt with under the Customs Con solidation Act of 1876, and subsequent Acts The reduction of duties and the improvement of communications have been powerful con tributory causes to the diminution of smuggling

Smut Disease of corn It affects other cereals and various herbs and grasses It is also the name of the fungi that cause it. The fungi which produces this condition comprise the genus Usilago The disease appears in the form of myriads of minute brown spores which have the appearance of soot Smut is highly infectious, and calls for drastic remedies such as steeping in chemical solutions

Smuts Jan Christiaan S African states man Born May 24, 1870, in Cape Colony, after a brilliant career at Cam bridge he practised at the bar in Cape Town bridge he practised at the bit in Cape Town and Johannesburg and during the Boer War had supreme command of the Boer forces in Cape Colony He took a prominent part in promoting the union of the S African colonies, which was culminated in 1910 He commanded in E Africa in the Great War and visited to the colonies of th In Salitating the died was an an invision.

London in March, 1917, being given a seat in the War Cablnet His memorandum on the League of Nations, drawn up after the Armistice, became in substance the Covenant of the tice, became in substance the Covenant of the League He was Prime Minister of the Union of S Africa, 1919 1924, Rhodes Memorial Lecturer at Oxford, 1929 30 and president of the British Association in 1931 In 1933 he became Deputy Prime Minister and Minister of Justice in a Coalition Government A keen botanist and a profound philosopher, he is the author of an important philosophical work, Holism and Evolution

Smyrna (or Izmir) City of Turkey Situated on the Gulf of Smyrna, City of Turkey on the W coast of Asia Minor it is a very important commercial centre Figs, tobacco and raisins are exported Smyrna was one of the Seven Churches of Asia. It was captured by the Turks in 1424 As a result of the Great War the city was administered by Greece for come time but in 1922 the Turky deeper the

some time but in 1922 the Turks drove the Greeks out. Pop 153 845

Smyth Dame Ethel Mary Foremost English woman composer Born April 23 1858, she received her musical educa tion chiefly in Berlin and Leipzig and is a Mus Doc of Durham and Oxford She has written many orchestral works and operas, which have been heard both in England and abroad Her chief compositions are the Mass in D The Wreckers The Boatsmans Mate, Entente Cordiale She was a militant suffragette She was made D B E in 1922

Snaefell Mountain in the Isle of Man It is 5 m. SW of Ramsay, and

is 2034 ft. above sea level, being the highest point in the island. It commands extensive views

Sna1 Various gastropods They have an external shell Some live in fresh or salt water, others on land One of the best known sea snalls is the periwinkle. The land snall is known specifically as the edible snall (Helix pomatia), and is widely eaten on the Continent. Although some of the land snalls cause damage in gardens, most of them feed on fungi and mosses Like slugs, snalls are most active at and after dusk

Limbless reptile With a long Snake overlapping scales, it belongs to the order Squamata Sea snakes are clad entirely with scales, whereas land snakes have broad plates on the ribs Snakes slough their skins from time to time, the transparent fixed eye covers being shed with the skin The poison is secreted in a and with the sain a poison is section in a modified sailva giand Snakes are very widely distributed. The only poisonous kind in Britain is the adder A snake bite, though very painful, and accompanied by distressing painful, and accompanied by distressing symptoms, is rarely fatal to man Snake charming, still common in India and Egypt, does not depend on occult powers, but on skill in handling the reptiles

Snake-root Plants used as an antidote for snake bite The term is specially applied to the mongoose plant (Ophiorrhiza mungos) of the E Indies Others include Viriginia snake root (Aristolochia serpentaria), button snake root (Liatris spicata and Eringium aquaticum), and white snakeroot (Englorum allessimum)

root (Eupatorium altissimum)

Snake Wood Ornamental wood Obtained from the W Indies, it consists of the heart wood of the bread nut tree in Jamaica, and of an allied plant in Trinidad. The wood is figured and deep prown in colour and is reviewly for the province of the wood is figured and deep prown in colour and is reliable. brown in colour, and is valuable for panelling, inlaying and veneering

Snapdragon (Antirrhinum majus)
natural order Scrophulariaceae the bag shaped
flower can be made to open by squeezing side Snapdragons are increasingly popular gardon plants, and can be obtained in a variety of striking colours They range from large plants to dwarf kinds One species, A orontium, is found wild in Britain

Snaresbrook District of Essex On the edge of Epping Forest, it was once a separate hamlet but is now part of the urban district of Wanstead It is served by a station (Snaresbrook and Wanstead) on the L N E and L M S Rlys

Sneezewort Perennial herb (Achillea plarmica) Belonging to the natural order Compositae it is found in Europe and Asia Minor and also in Siberla. The plant has a strong pungent smell The root stock is long and creeping and when dried and powdered it may be used as a substitute for sour for snuff

Hannah Known as the "female Snell April 23, 1723 the daughter of a hosier She married a wastrel who deserted her, and in order to find him she disguised herself and enlisted in the Duke of Guise s army She deserted and being shipped on board the Swallow, she took part in the siege of Pondicherry, and served before the mast in other vessels. Her adven tures published in 1750 were widely read She died Fob 8, 1792

Snipe Wading bird (Capella gallinago)
Allied to the plover, it is a marsh frequenting, long-beaked bird The best known as quenting, long-beaked bird The best known as the British snipe, the common snipe (G coclests), is about ten inches long, and is mottled brown and black The other British species are the jack snipe (G gallinula), which is slightly smaller than the common snipe, and the solitary or great snipe (G maior), which reaches one foot in length Owing to its darting flight the snipe is a very difficult bird to shoot, but affords a very popular sport for the expert. the expert

Snooker Pool Form of billiards It is played by two or more players, and each plays in the following order, with a different coloured ball white, red, yellow, green, brown, blue, pink, spot-white, spot-red, spot-yellow, spot green, and spot-brown Each player in the pool tries to pocket his opponent's ball, and the one who is so "potted" loses a life, which has sometimes

a monetary value

Snow Frozen water-vapour It is cipitated in soft white flakes It is pre-flakes The snow-line is the height above which snow always lies It varies with latitude and elevation In the Himalayas the limit of perpetual snow is about 16,000 ft, in Norway it is about 3000 ft., and in Greenland it occurs at sea-level

For clearing snow from railway lines and roads a snow plough is used In its simplest form this is a wedge-shaped arrangement of planks Where the snowfall is very heavy a rotary snow plough is used. For travelling on foot over snow, snowshoes of various forms are used. See Serviced used See Ski-rad

Snowberry N American shrub (Symphoricarpus racemosus) bearing spikes of delicate rosepink flowers. These are succeeded by large white berries of a smooth waxy appearance

Snow Bunting Song bird (Plectro-phenax nivalis) of Northern Europe and Siberia It visits the North of Britain in the winter It is believed to breed occasionally in Scotland at very high altitudes The wings are noticeably pointed, and the hind claws are very long. The bird has

and the hind claws are very long. The bird has black and white plumage, which becomes tinged with a brownish-red in the winter Snowden Viscount. British statesman. Philip Snowden was born at Cowling, Yorkshire July 18, 1864, and entered the Civil Service in 1886, retiring in 1893. He joined the Independent Labour Party in 1893, becoming chairman in 1903. He was Labour Member for Blackburn, 1906-18, and for Colne Valley 1922 32. An authority on financial matters, he became Chancellor of the Exchequer in the Labour ministry of 1924, and again in 1929, winning great popularity for his sturdy defence of British interests at the Hague conference on reparations in that year Hague conference on reparations in that year In the critical days of the autumn of 1931 he In the critical days of the autumn of 1931 he incurred much abuse from the majority of the Labour Party by putting the national interest before that of his party and joining the National Government, in which he was Chancellor of the Exchequer and responsible for the abandonment of the gold standard Soon after the reconstruction of the Cabinet, Nov 5, 1931, he was transferred to the House of Lords as Viscount Snowden, becoming Lord Privy Scal He resigned from the Cabinet in 1932 Most of his life has been spent in the furtherance of Socialism, and he is the author of soveral works on social subjects An Autoof several works on social subjects An Auto-biography appeared in 1934 Lord Snowden

is an effective speaker, an able administrator, and a man of inflexible will

Snowdon Mountain of Wales In Caertown of Caernaryon' it is divided into five peaks, of which Y Wyddfa, the highest, is 3560 ft above sea level Snowdonia, as the surrounding district is called, was a royal forest under Edward I It contains many lakes, and the passes which mark it off from the encircling hills are famous for their grand scenery. The summit is reached by a railway from Llanberis

Snowdrop (Galanthus nivalis) Peronatural order Amaryllidaceae, it grows wild in Europe and Asia, and, though sometimes found in the wild state in Britain, is probably not native to it The plant grows from a bulb, has two tapering leaves, and one pendent white flower on a tall stem It is often seen in the snow, and flourishes in Britain during the early spring

early spring

Snuff Powder prepared from tobacco
Suff Used for inhaling up the nose, it
is sometimes made from the residues of ordinary tobacco, but the best snuff is obtained from the central stem of the leaf It is variously scentral and flavoured The practice of taking snuff, which was very common in England in the 17th and 18th centuries, is far less common now Artistic skill was lavished on the making and decoration of snuff boxes

Sir John English architect Born at Reading on Sept 10, 1753, of humble parentage, after early training in an architect's office he gained a Royal Academy travelling scholarship, and spent three years in Italy On his return home he secured appointments as architect to the Bank of England and St James's Palace, designed other important buildings, and in 1806 was elected Professor of Architecture at the Royal Academy He died on Jan 20, 1837, and bequeathed his house in Lincoln's Inn Fields, containing numerous art treasures, to the nation.

Soap Cleansing compound Composed of oils and fats with an alkali, it is regarded as the alkali salt of the acids present in animal and vegetable fats. The hard soaps are composed of sodium salts, and soft soaps of potassium compounds From the spent lyes of soap-boiling, glycerine is obtained, although of soap-bolling, giverine is obtained, annough in the cold process the glycerine is retained in the soap Soft soap, made with potash, is usually very alkaline, but for toilet purposes hard soaps require to be neutral

Soapstone Mineral statite inits massive

Signal of magnetic structureless form It con-

sists of magnesium silicate and is soft, white or greenish coloured

Soapwort (Saponaria officinalis)
Perennial herb Belonging Belonging to the natural order Caryophyllaccae, it is also known as fuller's herb. The rootstock is white and creeping, the leaves are lance shaped, and the flowers, which are either lilac or white; grow in fragrant clusters. The name is derived. from the fact that the leaves make a lather in water

Soar River of England A tributary of the Trent, it rises on the Warwickshire border, and is navigable as far as Leicester It is 40 m long

Sobieski John King of Poland, known as John III Born in 1624, he' became a soldier, and in 1868 was made commander-in-chief Utterly unscruppious, how-ever; he conspired against the king, who was

consequently forced in 1672 to cede the Ukraine to the Turks Sobleski, however, himself defeated the Turks in five battles and, the king having died in 1673, secured his own election as king in 1674 By 1676 he had recovered two thirds of the Ukraine, and now attempted to establish an absolute monarchy in Poland to establish an absolute monarchy in Poland He signed a treaty with the Emperor Leopold against the Turks in 1683, in which year he relieved Vienna and freed Hungary from the Turks His last twelve years were troubled by internal dissension and the ingratitude of his His last campaign in 1690 was a failure alliea He died June 17, 1696

Social Contract Idea that society voluntary association for mutual benefit and protection Denying a divine or inherent right in kings or governments it implies that rulers rule and laws are made and observed solely by the sanction of the community Though held by Hobbes, Locke and Rousseau (Du Contrat Social) the theory is not supported by history or anthropology

Socialism Political and economic theory of social reorganisa economia tion It aims at the state control of economic activities so that competition shall be replaced by co operation and the opportunities of life and the rewards of labour be apportioned

equitably

Within this general definition of its aims the most varied interpretations are given to the form, these ranging from a somewhat advanced form of liberalism to something very like communism Its antithesis is individualism which was a powerful force in Victorian liberalism, but to many it stands for an opposition to capitalism. It has had many advocates and exponents among whom Karl Marx, Robert Owen and George Bernard Shaw

Whatever definition of socialism is accepted, it is certain that in the 19th and 20th centuries it made great advances almost all over the world This took the form of greater state control over conditions of labour, state pro vision for old age and sickness state ownership of public utilities and state interference with unrestricted competition in scores of ways In Great Britain the movement was inspired by the Fabian Society which preached the inevitability of gradualness A more academic but hardly less powerful influence was the philosophy of T H Green In the political sphere socialism became very

strong in the 20th century In Great Britain and Australia, calling itself the Labour Party, it became responsible for the government of it became responsible for the government of the country. It was less powerful in the United States and Canada but attained enormous strength in Germany and France. After the Great War some of the republies that arose were definitely named socialist and in almost all socialist ideas were dominant. Spain in 1931 became a socialist republic and in 1932 Chile adopted a socialist constitution Of other countries the Irish Free State and Finland have gone far in putting socialist principles into operation The system in force in Russia is in theory an extreme form of socialism Political socialism has brought out active opposition which has found its fullest expression in the Fascist movement in Italy and the Nazi organisation of Germany, although on the economic side these are as socialistic as their opponents

ing to France about 600 sq m in area, the islands are for the most part of volcanic origin Vegetation is luvuriant, copra, vanilla, bananas and sugar being grown Phosphates are plenti ful The principal island is Tahiti The group was annexed by France in 1880 Pop 9.720

Society of Friends Small Christian hown as the Quakers, it was formed in the middle of the 17th century under the leadership of George Fox It possesses no professional ministry, and, save in America, no set services At their meetings any one who is moved by the Spirit leads the prayer or preaches

The Friends do not take the oath in courts

of law and they are averse to military service They are noted for their philanthropy

In Britain the Society of Friends numbers about 30 000 Its headquarters are Euston Road Their early meeting place, Jordans, in Buckinghamshire, is still preserved

Socinus Name of herestarchs of Italian origin Lelius Socinus (1525 82), and Faustus Sociaus (1539 1604) were uncle and nophow respectively. Their Italian names were Lelio Sozzini and Fausto Sozzini Lelius had been destined for the law, but was early attracted by theology His legal mind was un willing to concede anything unreasonable, or anything incapable of proof and his teachings approximated closely to modern Unitarianism Persecuted, he fled to France England, Holland, Germany and Poland, dying in Zurich After his death his nephew, after an interval of some years, vigorously resumed the work, un daunted by persecution A new sect, the Socinians, was the outcome of their combined teachings

Sociology Science of the development, nature and laws of human society. In the 19th century it became a subject of study, its increased importance being due to the fact that men were living more closely together and their activities were more dependent one upon the other than ever before Sociology aims at studying the causes and effects of social relations and at drawing from this study some conclusions for the guidance this study some conclusions for the guidance of the legislator Birth, marriage and death rates, housing hours of labour, and the use of leisure are a few of the many that fall within its scope Ovford, London, Birmingham, Bristol, Leeds Liverpool St. Andrews, Edin burgh, Glasgow and other universities give courses in social study

Socrates Greek philosopher Regarded as one of the wisest men of history, he was born c 469 B c and in early life took part in three military campaigns where he showed entire indifference to every hearden. He devoted his later life to the pursuit of philosophy and gathered around him a number of pupils the two most famous being Xenophon and Plato He taught that self knowledge is more important than specula tion about the universe that truth (or knowledge) and virtue are inextricably connected, and that vice arises from ignorance Accused, chiefly by the Sophists of corrupting the youth of Athens, he was condemned to doth by displaying hornless in 200 mg. He death by drinking hemiock in 399 BC He forms the central figure of the Dialogues of Plato Tradition says his wife, Xantippe, was a typical shrew

opponents
Society Islands Archipelago in the Soda also as soda ash, washing soda, or soda crystal It occurs naturally as deposits

and as brine in certain lakes in California, British Columbia and Kenya Colony, but is manufactured on a large scale from common salt. Baking soda is sodium bicarbonate obtained by the action of carbon dioxide upon the carbonate and is used for baking powders, and as an antacid in medicine

Soda Water Aerated water Prepared ordinary water with carbon dioxide gas under pressure, the liquid, which usually contains little or no soda, is either bottled by special machinery and corked or enclosed in the more convenient form of siphons for use as an effervescent drink

Sodium Metallic alkaline element. Having the symbol Na and atomic weight 23, it is not found in the metallic state, but its compounds are widely distributed in nature, occurring as common salt or sodium chloride in sea water brines and Metallic alkaline element. rock salt, as a carbonate in soda lakes nitrate in surface incrustations and as a borate in borax deposits

Sodium when isolated from its oxide is a soft silvery white metal lighter than water and with a strong affinity for oxygen It decomposes water forming the hydroxide or caustic soda and setting free hydrogen which

bursts into flame

Sodom Former city of Palestine in the vicinity of the Dead Sea Sodom and Gomorrah were known, together with Admah, Zebolim and Zoar, as the "cities of auman, Zebolim and Zoar, as the "cities of the plain" They were proverbial for their wickedness, for which they paid the penalty by being destroyed by "fire and brimstone" (Gen xix) The site of the cities has not been determined, and the exact nature of the catas-trophe they suffered is still a matter of speculation

Sodor and Man Name of the Angli can diocese of the Isle of Man The diocese of Sodor (Norse Sudr-cyfar, southern isles), formed in 1154, was included in the province of Trondhjem, in Norway it comprised, besides the Isle of Man, several islands W of Scotland This Norwegian connection came to an end in 1266, but the name Sodor remained The diocese has its own special convocation, but for most purposes is included in the province of York

Sofia Capital of Bulgaria. The city lies at the base of the Rhodopa Mts, some 400 m NW of Istanbul (Constantinople), on the trans-European Orient Express route to on the trans-Luropean Orient Express route to the Bosporus It is the seat of a university and the see of a Greek metropolitan, the cathedral of St Alexander being a notable building Sofia is an important trade centre and has a broadcasting station (319 M, 1 kW) It was in the hands of the Turks from 1382 until 1878, when it passed to Russia Pop (1926) 213,000

Soft Wood Class of woods Mainly trees such as the pines, firs, spruce and larch, these woods are lighter in weight and looser in texture than the hard woods such as oak, teak and mahogany, and they are used for building, box making, pit props and wood pulp

Sonam Urban district and town of Cambridgeshire, 5 m. S E of Ely. It is served by a station on the L N E Rly The name Sonam Mere marks the site of a great sheet of water now drained S Andrew's

Fruit growing and market gardening are carried on in the district Pop (1931) 4737.

Soho District in the west end of London. Soho It is bounded by Regent Street, Shaftesbury Avenue, Charing Cross Road and Oxford Street, and includes also part of the Tottenham Court Road area There are many foreign restaurants and a large foreign colony, and the district is a stronghold of the moving picture industry St Anne's church is noted for its music

Soho is also a district name in Birmingham James Watt and Matthew Boulton had their

Soil Surface layer of mould or earth. Supplying nourishment for the growth of plants, a soil is formed by the weathering of rocks or may result from transport of disintegrated material by rivers or glaciers. The character of the soil depends upon the nature of the rock basis, the agencies of transport, and the character of disintegration. The mineral constituent may be either sand, clay or calcium carbonate, with various carbonates. sulphates, phosphates and nitrates In addition to these humus or decayed organic matter is present in large or small quantities Loam is a sandy or clayey soil rich in humus while marl is one that is calcareous

Soissons City of NW France It is dunum of the Romans Seized by the Franks, it was incorporated in the kingdom of Paris in the 7th century Thomas à Becket spent some the 7th century I nomes a Because point of the time here, and the city was a great monastic centre. Beyond the cathedral there is now little of note in the city which suffered badly in the War. There are iron and copper foundries the war appearance of content turn implements. and manufactures of agricultural implements rubber goods and glass Pop (1931) 18,705. In the Great War, Solssons, with Rheims, was the centre of the great German advance of 1918 The Germans took many prisoners and guns and would have stretched their lines further had it not been for the successful intervention of American troops

(or Socotra) Island in the Sokotra entrance to the Gulf of Aden, it is about 130 m ENE of Cape Guardaful It consists Situated at the of high plateau land and low plams, with the Haghler Mts rising to over 4500 ft in the centre. Myrth and frankincense are grown in the valleys that channel the plateau, and incense is a considerable export. The island is a British protectorate. It has an area of 1382 British protectorate sq m Pop 12,000

Solar Cycle Chronological term It current period of twenty-eight years. During this period the days of the week recur on the same days of the month in any corresponding vear

Solarium Establishment for sun bathing Equipment may also be provided for treatment by artificial sunlight in the winter season One was opened at. Poole in 1932

Solar System Group of planetary which move a round the sun. They include the planets and their moons, the asteroids, meteoric swarms and the periodic comets. The planets all circulate around the sun in the same direction in oval orbits and at varying distances, while a comet moves in either direction and has the church has many interesting features and the sun at one focus of an elongated elliptical orbit grammar school dates from the 17th century All these bodies derive their light and heat from the sun except the comets whose light, is largely their own

Soldo Obsolete Italian coin. Of the nominal value of a halfpanny, equivalent to the French sou, the name comes from the Latin solidus, a Roman coin

Sole (Solea) Genus of flat-fish Much species The common or Dover sole (S vul garis) sometimes exceeds 2 ft. in length, but about one foot is the average length. Young soles are known as slips The so-called lemon sole is a kind of dab

Solent Strait in the English Channel Between Hampshire and the Isle of Wight, it forms the W entrance to South ampton Water It stretches from the Needles as far as West Cowes, a distance of about 16 m, with an average width of about 3 m lt is the venue of many yacht races

Solicitor In England a name used by a member of the lower branch of the legal profession. They are members of the supreme court of justice and their business is to conduct legal business on behalf of their clients They can appear in person in the lower courts, such as those held by magistrates and the county courts, but not in the higher ones, where they must brief or engage, a barrister The fees charged by a solicitor are according to a scale and a solicitor's bill can be taxed in order to see that the charges are not excessive In 1932 an act was passed, dealing with the status of solicitors See

VOITAXATION Apart from litigation solicitors do a great deal of business for their clients. Some of them specialise in a certain branch of the law, ecclesiastical law or conveyancing, for example
To become a solicitor one must serve articles

to a solicitor for three or five years pass certain examinations, and pay certain stamp duties and other fees The controlling society is the Law Society in Chancery Lane, London, W C, which deals with cases of discipline For serious offences the punishment is to be struck off the rolls, which means that the solicitor cannot practise again Most solicitors are in business for themselves, but a number are in the employment of town, county and other councils, and a few are engaged by private firms

Solicitor-General In England and elsewhere a law officer He is usually a member of the House of Commons and of the Government of the day and assists in the conduct of all legal business His superior is the attorney general He receives a salary of £2000 a year and fees and is knighted on appointment. Scotland, Canada and other parts of the Empire possess solicitors general with similar duties

Solid Three-dimensional substance pro-states of metter in which the atoms are aggregated closely together so as to prevent Three-dimensional substance individual free movement, solids also have a individual free movement, solids also have a definite shape and size, but by the action of heat or other agency may pass over into the liquid state the force of cohesion being partially overcome Solids when deposited from solution or state of fusion may assume the form of crystals having a definite geometrical character, or may be amorphous possessing no definite form

Solihull Market town of Warwickshire It is 6 m. S E of Birmingham and 104 m. from London by the G W Rly

Pop (1931) There is an old grammar school 11,552

Sollum Port and gulf in the NW corner of Egypt. It is about 80 m from the coast town of Mersa Matruh, which is connected by railway with Alexandria Of little value commercially, Solium is import-ant as a base for controlling the Mohammedan Senussi

Solomon King of Israel A son of David and Bathsheba, he succeeded his father about 974 B c and reigned for nearly 40 years His reign was peaceful, due to alliances with Egypt and Tyre, and the most prosperous of any king of Israel, with an extensive foreign commerce An able ruler and a sincere follower of Yahweh, Solomon built the first temple at Jerusalem, though he departed from orthodoxy in establishment. lishing heathen shrines for his foreign wives His reputation for wisdom is probably exag gerated by tradition He died about 937 B C The Old Testament book known as the Song

of Solomon is now considered a secular poem,

falsely attributed to him

Solomon Solomon Joseph British painter Born in London Sept 16, 1860, he studied art in R A schools, in Munich and in Paris He was the originator of camouflage during the Great War, when he was Lt Col in during the Great War, when he was 10 001 in the Royal Engineers His chief paintings are "Cassandra," "The Judgment of Parls" "Echo and Narcissus," "The Birth of Love" and portraits of Mrs. Patrick Campbell and Israel Zangwill He did mural paintings in the

Israel Zangwill He did murai paintings in the Royal Exchange and Houses of Parliament. He died July 27, 1927

Solomon Islands Group of British Western Pacific, E of the Bismarck Archi pelago Bougainville, Choiseul, New Georgia and Ysabel are the principal islands Ebony, sandalward, nearl shell and cours are exported sandalwood, pearl shell and copra are exported Earthquakes are frequent, and there are hot springs Formerly shared between Britain and Germany, the whole of the islands became British in 1914 Part are administered by Australia under mandate The area of the archipelago is about 14,800 sq m. Pop 200,000

Solomon's Seal Perennial herb tiflorum) belonging to the natural order Liliaceae. The plant has arching stems and drooping greenish white flowers. It gets its name from the seal like scars which are left

on the rhizomes of last year's stems

Solon Athenian lawgiver Born about

639, he was of ancient royal lineage

In 594, at a time of acute economic distress,

Solon was made first archon (chief magistrate),

and converted and entrusted with the writing of a new constitution and the compilation of a legal code He divided the population into four classes, according to their means, each class having definite duties Tradition says he then left Athens for ten years, to see how the con stitution would work travelling in Egypt and Asia Minor He died in 550 B o and ranks as one of the "Seven Sages"

Solstice point in the ecliptic at which the sun is at its greatest distance from the equator and consequently at the turning point in its apparent path. The summer solstice occurs about June 21, when the Tropic of Cancer is reached, and the winter solstice about Dec 21, on reaching the Tropic of Cancer. of Capricorn;

Solution In chemistry a form of homogeneous mixture of two or more substances. It may be solld, liquid in gaseous. Liquid solutions are the best hown, and the degree of solubility of liquids in other liquids is either limited or unlimited, hus alcohol and water form a solution in my proportion, but ether has only a limited clubility in water. Gases also dissolve in quids following definite laws, and solid solutions are formed by the solution of solids or mases in other solids.

Solway Firth Inlet of the Irish Sea, tectland The Scottish counties bordering in the Firth are Kirkeudbrightshire and Damfriesshire, and the English coast is in tumberland The Firth is about 40 m in ength, and has a greatest width of 22 m scottish rivers flowing into it include the An an, Nith and Dec, and on the English shore t receives the waters of the Esk, Derwent, Eden and Ellen There is a tidal bore

Solyman (or Suleiman) Turkish sultan, known as "the Magnificent" Born in 1496 he began his reign by making retensive reforms which earned him in Turkey he name of "the Lawgiver" Invading Hungary, he took Belgrade in 1521 In 1523 he took Rhodes from the Knights of St. John, and in 1526 crushingly defeated the Hungarians it Mohacs Armenia and the cities of Tabriz and Bagdad were taken from Persia in 1534, in 1537 he conquered Croatia and in 1541 he mposed an annual tribute on Austria. In 1560 he defeated a combined Christian navy it Djorbeh, but was himself repulsed from finita in 1565 Perhaps the greatest of the pultans, he died Sept 5, 1566

Somaliand Region of E Africa. It istricts, British Somaliland, French Somali-hand and Italian Somaliland, French Somali-hand and Italian Somaliland, of which the last stretches along the Indian Ocean from the horn of Africa down to Kenya The area if British Somaliland is 68,000 sq m, and the population, 344,000, French Somaliland overs 8880 sq m, with a population of (1931) 18,965, and Italian Somaliland is some 15,754 sq m. in area, and its population is 121,776 British Somaliland is administered by the Colonial Office Hides, skins, cattle, blt, coffee, gum, resins and ivory are exported

Somersby Village of Lincolnshire It is 7 m from Horncastle ind is chiefly known as the birthplace of lifred Teunvson There is a memorial to him in the parish church The churchyard has an ill cross

SOMETSET SW county of England It lies to the N of Devon and Dorset, with a coastline along the Bristol channel and the Severn Estuary It consists lroadly of a wide plain, bordered by two hilly reas, including the Mendips and the Quanteks. Dunkery Beacon on Exmoor rises to 707 it

The Vale of Taunton is very fertile Crops include wheat, barley and cider apples, and cattle and sheep are raised Cheddar these is extensively produced The county is brived by the GW and the SRys Besides Bath (city and parliamentary), there are six jarliamentary divisions The county town is raunton The area is 1621 sq m Pop (1931) 106,319

Somerset Duke of English title

Sevmour and earlier by that of Beaufort In 1387 John Beaufort was made Duke of Somerset Edmund Beaufort, the 2nd duke, was killed in 1455, and a little later, Henry, the 3rd duke, lost the title

In 1547 the title was given to Edward

In 1547 the title was given to Edward Seymour, known as the Protector Somerset, but it ceased to exist whon he was executed in 1652. The next duke was his descendant, William Seymour, to whom it was given in 1660. Since then it has been held by the Seymours and ranks as the second oldest dukedom in the peerage of Lingland, as precedency counts from 1547. The duke has son is called Lord Seymour.

Somerset land Born about 1506 Edward Seymour served in France as soldie and diplomat In 1536 Henry VIII married Jane, his sister and Seymour became Viscount Beauchamp, being created Earl of Hertford on the birth of Edward VI On the death of Henry in 1547 Hertford, now Duke of Somerset, was chosen as protector Failing in his efforts to conciliate the Scots, he defeated them at the Battle of Pinkie (q v ) in 1547 In 1549 by the Act of Uniformity he sought to enforce the use of the first Book of Common Prayer Too mild and tolerant in his methods, however, he disagreed with the council and was sent to the Tower in 1549 Released in 1550, he was again imprisoned in 1551 on an unproven charge of treason, but was condemned on a technical charge and executed, Jan 22, 1552

Somerset House British Government building between the Victoria Embankment and the Strand It takes its name from the Protector Somerset, on the site of whose palace it was built. The architect of the main building, dating from 1776, was Sir William Chambers, that of the east wing (housing King's College), Sir Robert Smirke, while the west wing was from the designs of Sir James Pennethorne

Among the Government offices in Somerset House are those of the commissioners of inland revenue, the registrars of wills and probate, and that of the Registrar-General of births, marriages and deaths for England and Wales

Somers Town District of London.
St Pancras, it lies to the NW of the city
The land was owned by the Somers family,
one of whom was among the counsel for the
Seven Bishops (1688), and ultimately became
Lord Chancellor to William III

Somerville College women at Oxford University It was founded in memory of the scientific writer, Mrs Mary Somerville (1780-1872), who made her name by her Mechanism of the Heavens, a translation of Laplace's Mecanque Celesic. The building was opened in 1879 as Somerville Hall and after various additions the name was altered to Somerville College

Somme River of France It rises near St Quentin, and is 150 m. long It is used for navigation and is connected with other waterways by canals. Amiens is the largest place on its banks, and it falls into the English Channel near St Valery There was much fighting about here in the Great War

title Somme Battles of the Series of engagements on the W front during the Great War The first battle began with an Alled offensive on July 1st, 1916, on a 25 m front, N and S of the Somme River The British forces in the N part of the line were only able to make a little headway after intense fighting, but the Fronch in the S were more successful, taking 6000 prisoners On July 14 the attack was renewed followed by more severe fighting, which resulted in by more severe fighting, which resulted in small advances by the Allies, but it took two months to secure points planned to be captured during the first days of the battle. The third stage of the campaign began on Sept 14 (when tanks were used for the first time with devastating effect on the Germans), and it continued with heavy cost to both sides to the end of November when the fighting sub sided into trench warfare

sided into trench warfare
In the great German offensive of Spring,
1918 (March 21-28) nearly all the ground
gained by the Allies during these battles
was lost again, and the Germans reached
positions which they had not held since 1911,
but they failed to obtain their objective of
breaking through the Allied line The final
allied advance over the Somme area was
carried out during the month of August,

1918 In Roman mythology, Somnus DOMNUS personification of sleep He was regarded as the son of Night and the twin brother of Death, with whom he dwelt in the darkness of Hades

Sonata Originally signified a piece of music played, in opposition to a cuntata, which was sung The sonate is for one or two instruments only, and consists of a group of movements (often four). separate one from the other but related in key and style Early sonatas were written by koy and style Early sonatas were written by Scarlatti and Paradies, and Bach Haydn, Schumenn Mozart, Beethoven and Brahms have continued the tradition The idea of sonatas has been reproduced in the modern " symphonic poem

Song vocal melody Until the 16th cen song was the folk-song (q r) from which mediaeval minstrels gained their inspiration mediaeval ministress gained their inspiration Madrigals (q v) written by trained musicians were widespread in the 18th century sole singing developed when all the parts except one were taken by instruments and the popularity of the late brought about the invention of songs for a single voice accompanied by a single instrument. William Byrd was one of the leading health writers of was one of the leading English writers of

was one of the leading Engish where of madrigals, Dowland of songs for the lute

Song writing has occupied the attention of musicians in all countries. Among the great German song writers are Schubert, Mendels sohn, Schumann and Brahms and Gounod is one of the best known among French musicians. In England Purcell in the 17th century and Among modern English song writers the names of Parry Stanford Eigar Vaughan Willams, Holst Quilter Delius and Bax are familiar Cecil Sharpes work in reviving old folk songs has brought about a renewal of their popularity, and Sir Richard Terry s collection of sea shantles has given these a place in modern singing

Song of Songs Another name for the Old Testament book, Canticles, also known as the Song of Solomon The Hebrew title of the book is The Song of Songs which is Solomon's."

Song Thrush British bird, (Turdus the mavis This thrush is familiar to all by its spotted breast of an olive brown colour, and is one of the most melodious of European song birds The nest, in the form of a deep cup, is plastered quite smooth inside Though doing much damage to fruit, the mayis is a great destroyer of snails

a great destroyer of snails

Sonnet Form of poem It consists of
lit lines, divided into two parts,
eight lines and six lines The first is again
divided into two quatrains (four lines), and the
second into two tercets (three lines) The
rhymes are abba abba cde cde
The sonnet originated in the 16th century
in Italy, and Petrarch was a great writer of
sonnets In the 16th century it was taken up
in England but its form was changed some
what to suit the new language Shakespeare
wrote sonnets which consisted of three quatwrote sonnets which consisted of three quatrains and a final couplet. The rhymes were abab cacal eff gg. Allton wrote sonnets on the Italian model. Of later writers the finest writers of sonnets in Inglish are Wordsworth Keats and Mrs Browning

Soot Finely divided deposit of carbon formed as the result of the incomplete combustion of coal, wood and other carbonaceous substances In addition to carbon particles there are present various hydrocarbons derived from the volatile matter in the fuel Lamp black is a form of soot from the combustion of resins, tars, oils, etc

Sophia Electress of Hanover Born Oct. 14, 1630, Sophia was the youngest child of Elizabeth, the daughter of James I who married Frederick V, Elector Palatine for a time King of Bohemia In 1658 Sophia married Duke Ernest Augustus of Brunswick who later became Licetor of Hanover Their son, George Lewis (George I), succeeded to the throne of England in 1714, soon after the death of his mother She died June 8, 1714

Sophist Name used in Greece for a wise man As a class the so phists became prominent in the 5th century BC when they set out to teach wisdom They claimed to prepare their pupils for civil. life

Sophister Term applied in some universities to certain senior undergraduates. It is often abbreviated to soph At Trinity College, Cambridge, anundergraduate in his third year is called a sonior soph, and one in his second year a junior soph. The word is also used at Trinity junior soph Th College, Dublin

Sophocles Athenian dramatist. He was born about 493 BC, and showed his talent early in direct competition with Acschylus who though many years his senior, was later influenced by the younger man He was employed as ambas sador, and, in the Samian War of 440, as general in conjunction with Pericles. This choice was reputedly owing to the success of the Antigone, one of his earliest plays We have only seven (out of over 100)—Ajar Antigone, Electra, Oepidus Tyrannus, Trachinice, Oedipus Colonnus, Philoctetes—the subjects being all drawn from Hellenic legends. The last named was written when he was 87 Three years later in 405 BC, he died Three years later in 405 Bc, he died

Soprano or Treble the highest range of the human voice, ranging from the C below the troble staff to A, sometimes even to the F A mezzo soprano is about a

aeroplanes and scaplanes for the British Government He was made CBE in 1918 In 1934 his yacht Endcavour competed unsuccessfully in the race for the America's Cup

Sorbonne Educational centre in Paris, now part of the university It was founded in 1252 by Robert de Sorbonne as a house for poor students It became famed as a centre of learning, especially in theology. as a centre of learning, especially in theology, the decrees of its professors were taken as final, and by their orders many persons were persecuted for heresy. Early in the 17th century Richelieu erected new buildings for the society, but these have been replaced by a fine group built since 1885. In 1896 the Sorbonne was included in the university of Paris Its buildings are in the Latin quarter

Sorel City and river port of Quebeo It stands where the River Richelicu falls into the St Lawrence, 51 m. from Montreal, and is reached by the CP Rly, while another line and also steamers connect it with Montreal and Quebec There is some shipping and a trade in lumber, for which there are sawmills Pop (1931) 10,320

Sorghum Important genus of grasses The species, S vulgare, with its many varieties is cultivated as a cereal and forage plant in many parts of the world under the names of Kaffir corn, dhurra, Guinea corn and Indian millet

Sorites In logic a series of syllogisms In it the predicate of each proposition is the subject of the following one

Sorrel Name of a genus of plants of the natural order Polygonaceae sepecially the sheep's sorrel and the common sorrel (Rumex acetosa) The later bears greenish red flowers It is sometimes grown in the garden as its leaves make a pleasant addition to a salad It is also used for making a soup and a purée

Sotheby's Short name for the firm of Sotheby's of Sotheby, Wilkinson and Hodge, the principal auctioneers of books in England The firm was founded in 1744, by Samuel Baker in York St., Covent Garden, London, and later passed to his nephew, John Sotheby Most of the important sales of books are body in the promises in Norr Book Street are held in its premises in New Bond Street. London, where coins and other objects of art are also sold

Sou French coin now used for the five centime piece Anything of little

value is called a sou

Souchez

third lower—from A to F As well as female voices, boy sopranos are very popular for church work while men sopranos, as in the "castnati" of papal choirs, are known

Sopwith Thomas Octave Murdoch Born to In 1888, he was educated at Cottesmore and the Seafield Engineering College In 1910 he won the Baron de Forest Prize of £4000 for a flight from Eastchurch, Kent, to Beaumont, Belgium, covering the 190 m. in 31 hours, a record for that time He thereupon founded the Sopwith Aviation Co, Ltd, Kingston on-Thames During the World War he designed and built a number of aeroplanes and seaplanes for the British Heraclitus. for instance, conceived of the soul

Heraclitus, for instance, conceived of the soul as composed of fire, the element by which he sought to explain all phenomena. It was Plato who first established an immaterial principle as distinct from the sensible world. Christian doctrine emphasises the moral character of personality and its survival after death

Soult Nicolas Jean De Diou French soldier Born March 29, 1769, he entered the army in 1785, serving first in the ranks He soon became an officer, and his abilities were so marked that in 1804 he was made a marshal He held a command at Austerlitz, and took part in other of Napoleon's victories In 1808 he was sent to Spain where, except for a short period, he romained in command of the French forces until 181; He won some successes, but in the end he was beaten by Wellington He was exiled after the defeat of Napoleon at Waterloo, but was allowed to return to France in 1819

allowed to return to France in 1019
Under Louis Philippe, Soult, who had been
Duke of Dalmatia since 1807, was a prominent
politician He was Prime Minister, 1832-34,
and again 1839 47, was Minister for War,
1830-34, and 1810-44 and Minister for Foreign
Affairs, 1839 40 He attended the coronation of Queen Victoria He was made Marshal-General of France in 1847, and died Nov 26, 1851, leaving his Mémoires

Sound Term applied to the sensation upon the organ of hearing caused by the vibrations due to the alternate com-pression and rarefaction of the air. The vibrations of sound can pass through many solid, liquid and gaseous substances, but not through a vacuum, the speed at which they travel is about 1100 ft per sec in air at ordinary temperatures, and considerably greater in liquids and solids

Upon the wave length of the vibration depends the pitch of the sound, and upon the amphtude or height of the wave whether the sound is soft or loud Rapidly vibrating one. waves of short length and slowly vibrating ones of great length do not affect the ear, although the range of hearing varies greatly in different persons

Sound The Strait between Sweden the Baltic Sca to the Kattegat and is 30 m long Its breadth varies, being in one place only 3 m Copenhagen stands on the Sound

Sousa John Philip American conductor and composer Born at Washington, DC, Nov 6, 1854, he became in 1880 bandmaster of the US Marine Corps band afterwards organising his own concert band and travelling widely His works consist of military marches, some universally played, light opens, waltzer, somes and symplectic. light operas, waltzes, songs and symphonic. He died March 6, 1932

South Africa Self governing dominion of the British Empire It was created in 1910 and consists of four provinces—Cape of Good Hope, Natal, Transvaal and Orange Free State It covers 471,917 sq m. and had in 1931 a European population of 1,827,166 The native population in 1932 was estimated at 8,250,900, oblefly Bantus The capitals are Capetown and Pretoria The legislature meets at Capetown, but

the executive works from Pretoria

The union is under a Governor-General representing the king, and a legislature of two houses, senate and house of assembly The senate consists of 40 members, eight from each of the provinces and eight nominated by the Governor General The house of assembly consists of 148 members elected by the votes of all white men and women There is a ministry responsible to the legislature The chief political parties in the legislature The Nationalists and the S African party Before 1924 the latter, under J C Smuts, held office, but in 1924 they were replaced by the Nationalists under J B M Hertzog This represented the Dutch element in the population, and laid more stress on complete independence than did the followers of General Smuts In May, 1933, the Nationalists were again victorious, and in Dec., 1934, the two parties joined forces as the United Party of South

The Union is a member of the League of Nations Its law is Roman Dutch, but Eng lish law prevails in business matters. There is a permanent defence force, with a citizen force and other auxiliaries. Every male citizen force, or in a rifle association. There is a small air force and a small naval force. The coinage is the same as that of Great Britain. The cental of 100 lb is the measure of weight, but both the British and the metric systems are in use. The chief products of the Union are gold and diamonds. Maize and oats are grown and sheep are reared for their wool. The warm climate enables fruit, tobacco,

The warm climate enables fruit, tobacco, cane sugar and cotton to be raised. The University of S. Africa was founded in 1918, to replace the University of the Cape of Good Hope It has constituent colleges at Bloomfontein, Wellington, Grahamstown,

in 1918, to replace the University of the Capie of Good Hope It has constituent colleges at Bloemfontein, Wellington, Grahamstown, Pietermaritzburg and Potchefstroom Southall It is 12 m to the W of London on the G W Rly It includes Norwood Beling on the main line to the W and also on the Grand Union Canal, Southall has become a great industrial centre Margarine, jam gramophones and other articles are made here At Southall is a bridge built by Brunel, which carries the canal over the railway line, and the road over the canal Pop (1931) 38 932

South America one of the world's stretches for about 4500 m from Cape Galinas in Colombia to Cape Horn Its greatest breadth is about 3200 m, and it covers about 7000 000 sq m Its borders are the Atlantic and the Pacific Oceans, its only land frontier being the few miles that connect it with C America The equator passes through it, and much of it is in the tropics The continent is very fertile but much of it is still covered with forests and is unexplored It has a great mountain range, the Andes and in it are the Amazon and other great rivers

Amazon and other great rivers
Great Britain France and the Netherlands
have possessions in S America where Guiana

from London ar
on the S Rly
Pop (1931) 7352

is divided between them, but the rest of the continent is covered with republics once under Spanish or Portuguese rule The largest is Brazil and the next Argentina. The others are Bolivia, Chile, Peru, Colombia, Venezuela, Ecuador, Uruguay and Paragnay

Southampton County borough and shire Situated on Southampton Wator, it occupies a tongue of land lying between the estuaries of the Test and the Itchen, and is 80 m distant from London, on the S railway It is the third most important port in the kingdom The harbour is large and well-equipped, affording ample accommodation for shipping, the docks covering nearly 300 acres The Norman Bargate is a striking relic of the ancient fortifications, and the old guildhall is interesting The Hospital of God's House dates from the 12th century St Michaels church and Tudor House are of interest The borough is the seat of a bishop, who is suffragan to the bishop of Winchester Pop (1931)

Southampton Earl of English title now extinct The 1st earldom was created in 1537 for Sir William Fitzwilliam but five years later he died and it became extinct In 1547 Thomas Wrichtesley was made earl, and the title was held by his descendants until the death of the 4th earl in 1697 Henry, the 3rd earl, born Oct 6, 1573, is the nobleman to whom Shakespeare dedicated Venus and Adonis and Lucrece He died when on active service, Nov 10, 1624 The earls had property around what is now Southampton Row, WC The title of Baron Southampton, held by the Fitzroy family, exists It dates from 1780

Southampton Water Arm of Channel It is 10 m long and about 2 m across, and makes a very fine harbour with the Isle of Wight to protect it from the open sea. The Itchen Test and Hamble flow into it, and at its head is the port of Southampton.

South Australia State of the ComAustralia, occupying the S coast between Victoria and W Australia. Settlement began in
1836 Administration is by a governor, a legislative council of 18 members and an assembly
of 48 The climate is excellent and the
country principally agricultural and pastoral
Wheat and wool are the chief products, but
wine production and fruit, fresh and dried,
for which large areas are well suited, sometimes
under irrigation, are important and expanding
Industries Railways are well developed,
connecting with the systems of Victoria and
W Australia and extending into New South
Wales Steamers use the Murray River
and there are thousands of miles of roads
Adelaide the capital, is one of several modern
towns and there are fine harbours Area,
380,070 sq m Pop (1931) 582 928

South Bend City of Indiana, U.S.A. Joseph River, 86 m. from Chicago and is well served by rallways There are a number of manufacturing and other industries The buildings include the University of Notre Dame Pop (1930) 104,193

Southborough Urban district of from London and 2 from Tunbridge Wells, on the S Rly There is a large common Pop (1931) 7352

The title of Baron Southborough was taken; The title of Baron southborough was taken in 1917 by Sir Francis John Stephens Hopwood Born Dec 2, 1860, he held several important posts in the civil service, which he entered in 1835 From 1901-07 he was Permanent Secretary to the Board of Trade, and from 1907 Permanent Under Secretary for the Colonies From 1912-17 he was an additional Civil and of the Admiralty and in 1917-18 Civil Lord of the Admiralty, and in 1917-18 Secretary of the Irish Convention

Southcott Joanna English religious in Devonshire in April, 1750, she became a domestic servant. An ardent Methodist, she began to prophesy, and in 1802 she moved to London where she began to seal the elect 144,000 in number, as stated in the book of Revelation, She also stated that she was to become the mother of the second Jesus Christ She died of brain fever on Dec 27, 1814

Many of Joanna's prophesies were published, and others were enclosed in a sealed box

and others were enclosed in a sealed box Nothing very sensational was found when it was opened in 1927

Southend-on-Sea County borough pleasure pleasure resort of Essex It stands on the estuary of the Thames, 36 m from London, and has stations on the LMS and LNE Rlys It is also reached by steamship services in the summer and by motor coaches An arterial road connects it with London The borough includes Prittlewell, Southend proper, Thorpe Bay, Westeliff and Leigh, giving it a sea front of about 5 m The air is bracing and there are attractions for visitors The church of Portflevell is an old building and coar it are at Prittlowell is an old building, and near it are the ruins of the priory A yachting week is held in July The pier is perhaps the longest in England Pop (1931) 120,093.

(Artemisia abrota-Southernwood Perennial num) garden plant Of a shrubby nature, it is grown principally for the fragrance of its delicate feathery leaves Old country names for it are lad's love and old man It is of a hardy nature and will thrive in any soil

Southey Robert. English writer Born at Bristol, Aug 12, 1774, he passed much of his childhood with an aunt, passed much of his childhood with an aunt, with whom he saw many plays, read much poetry and wrote many verses Educated at Vestminster, Bedford and Oxford, he tried medicine first, but was disgusted with it Married in 1795, he immediately went to Lisbon, where began his love of Peninsular bistory and literature He settled, after many vicissitudes, at Keswick, devoting himself to literature His Life of Nelson is his best-known work He was made poet laureato in 1813 He died March 21, 1843

Southgate Borough of Middlesex. It station being New Southgate on the LNE Rly The name is due to the fact that here was the south gate of Enfield Chase A Royal Charter was granted to the borough in 1933 Pop (1931) 55,570

South Georgia Island in the Atlantic Ocean is 800 m to the SE of the Falkland Islands, and belongs, like them, to Great Britain It covers 1000 sq m, is mountainous and on it is a whaling settlement It was discovered in 1675, in 1775 Capt James Cook took possession of it. Here Sir Ernest Shackleton was buried in 1922 Pop 1895

South Island One of the two prin-zenland It covers 58,100 sq m. and its chief cities are Christchurch and Dunedin It contains the Canterbury plains that are famous for their wheat. In it is a mountain range called the Alps

Southminster Town of Essex It on the LNE Rly The church of S Leonard is a large building with some curious features.

South Orkney Group of islands Ocean They are 780 m to the SE of the Falkland Islands and like them are a British possession They cover 800 sq m, the largest being Coronation Island On Laurie Island the government of Argentina has a meteoro-logical station The islands are otherwise logical station uninhabited

Southport County borough, watering place and market town of Lancashire It stands on the estuary of the Ribble, 18 m from Liverpool, and has stations on the L M S and Cheshire Lines Rlys The sea has receded a good deal and a marine park with a large lake has been made on the front Open spaces are Hesketh Park and Kew gardens, there is a zoological park and Kew anical gardens Southport developed gracely anical gardens Southport developed greatly during the 19th century until it became one of the most popular watering places in the country. The borough, created in 1867, was extended in 1912 Pop (1931) 78,927

Southsea Watering place of Hampshire and part of Portsmouth It is 73 m from London, and is reached by the S Rly It has a fine front facing the sea on Spithead There is some yachting and a lake for model yachts The castle dates from the 16th century and there is a large common Southsea lies to the SE of the city proper

South Sea Bubble Popular name of a specula. tive scheme which resulted in one of the greatest financial disasters in English history. The South Sea Company was incorporated by Act of Parliament in 1710 and given a monopoly of trade in the Pacific Ocean Parliament, despite the warnings of Sir Robert Walpole, allowed it to take over the national debt in 1720. The stock of the company appreciated from 128 at the beginning of the year to 1000 in July. Its success led to the flotation of other companies, some of a bogus nature, and a wild orgy of speculation selzed the country, followed by the inevitable crash. National credit was to some extent restored by Walpole.

South Shetlands Group of Islands Ocean They are 500 m to the 8 of Cape Horn The chief Islands are Deception, Clarence, Elephant and Smith, and they cover 880 sq m All are mountainous They are a centre of the seal fisheries, but are other wise mythelited exeant, by sea ford. The wise uninhabited except by sea-fowl The islands, declared a British possession in 1908, are governed from the Falkland Islands The

Southwark Metropolitan borough of London It is on the south side of the river, just opposite the city, and is known as the Borough Bermondsoy and Lambeth are to the east and west respectively and the borough includes Walworth and the district around the Elophant and Castle It is reached by London, Southwark and Blackfriars Bridges The chief building is Metropolitan borough of Southwark

the cathedral of S Saviour, the mother church of the diocese of Southwark It has many interesting features, one being the Harvard Chapel In the borough are Guy's Hospital and London Bridge Station Plans for a new town hall have been passed The grounds of Bethlem Hospital are a public recreation ground

The industries include printing works and associated industries, and manufactures of various kinds There is a market for fruit and vegotables and the Hop Exchange is here
The area along the river is the Bankside of
Shakespeare's day Pop (1931) 171,657

Southwell City of Nottinghamshire ham, on the LMS Rly The cathedral, or minster is a magnificent building dating from Its nave and chapter house the 12th century It are particularly fine In 1884 Southwell was are particularly line. In 1884 Southwell was made the seat of a bishop whose diocese was the counties of Nottingham and Derby. In 1927 it was divided, and Derby was made the centre of a new see. Bishop s Manor, near the ruins of the palace of the Archbishops of York, is the residence of the Bishop.

Mandated South West Africa territory under the League of Nations It is bounded on the N by Angola, on the S by the Cape of Good Hope on the E by Bechuanaland, and on the W by the Atlantic Cattle, sheep and goats are raised, wheat and tobacco are among goats are raised, wheat and tobacco are among the crops grown, and copper and diamonds are mined The capital is Windhoek Ori ginally belonging to Germany, it was annexed by South Africa in 1915, and four years later was placed under the mandate of the Union It was granted a constitution in 1925 It has an area of 322,394 sq m. Pop (1930) 269,233

Southwick Watering place and urban district of Sussex It is 4 m from Brighton on the S Rly The church has a Norman tower The main industry is catering for visitors. Pop (1931) 6138

Southwold Borough and scaport of Suffolk It is at the mouth of the little River Blythe and has a station on the LNE Rly It is 41 m from Ipswich and 110 from London St Edmunds Church is a 110 from London St Edmund's Church 18 a tine old edifice. There is a large common and a good harbour, but as a scaport it is less prosperous than it was in the Middle Ages. The chief industry to day is catering for the risitors but there is some fishing. On May 28, 1672, the Dutch and the English fleets fought a battle in its bay, but without decisive results Pop (1931) 2753

Sovereign (See Sovereign is the standard unit of currency, though since the Great War is has not been much used It dates from the standard coin in 1817 It is divided into 20 shillings It weighs 123 27447 crains and is of 22 carat gold with an allow of copper In 1933, owing to the high price of gold because the country had gone off the cold standard sovereigns were sold for 313 3d gold standard sovereigns were sold for 31s 3d each Half sovereigns were also in general use and coins of two and five sovereigns have been issued on special occasions Sec STERLING

Sovereignty Supreme power or do minion It is used chiefly in connection with states which are sometimes it is 4 m. from Hallfax. It has also classified as sovereign and non-sovereign The silk manufactures Pop (1931) 3057

most famous definition of sovereignty is by John Austin in his Lectures on Jurisprudence It is said to exist when "the bulk of the given society are in a habit of obedience or submission to a determinate and common superior," and that superior 'is not in a habit of obedience to a determinate human superior. This definition has, however, been criticised by Sir Honry Maine and others who do not think sovereignty can be so precisely defined The modern view on sovereignty is divided modern view on sovereignty is divided Theoretically, in western countries at least, it rests with the people, but it is by them dele gated to kings, ministers and legislatures, who share it between them in varying proportions. Sovereign states are those which are subject to no external control The League of Nations cannot be said to exercise sufficient control to impair state sovereignty but its action and existence are not without a bearing on the conceptions of sovereignty

Soviet System of government obtaining the Russian and means "council" The Soviet system of government is based fundamentally of small soviet in workshop, factory villa town These basal units themselves village or delegates to similar congresses covering larger areas, the system culminating in the All-Russian Congress of Soylets which delegates its powers to a Central Executive Committee The supreme executive is the Council of People's Commissaries, drawn from this com mittee, and its chairman is the titular head of the state

On this theory government is from below, while executive decrees are transmitted from the central authority downwards, until they reach the executive or chairman of the village Soviet, by whom they are carried out. See RUBSIA

Sowerby Urban district of Yorkshire (WR.) It stands on the Calder, 3 m. from Halifax and at Sowerby Bridge there is a station on the L MS Rly Woollen and worsted goods are manufactured, and there are engineering and chemical works Pop (1931) 14,667

Soya Bean Herb grown for its food the order leguminosae, and is native to Asia. The leaves which grow on erect hairy stems, are divided into three leaflets. It bears small It bears small flowers, violet or purple in colour

are in pods

The bean is grown on a vast scale in Man churla, from where it is exported From it an other areas are the church from the church oil is obtained which is much used in the making of margarine and other substances. The seeds are used to prepare a feeding stuff given to cattle especially to dairy cows

Soyer Alexis Benoit French cook He was born in 1809 at Meaux, and worked for a time in Paris, where his cooking soon made him famous In 1830 he escaped to England, and settled in London where, from 1837 to 1850 he was head cook at the Reform Club In 1848 he was sent to Dublin to manage the food kitchens and in 1855 to the Crimea to look after the food supplies He died in London Aug 8, 1858 Soyer wrote books on cooker, and some of his dishes are still famons

Soyland Urban district of Yorkshire A centre of the woollen industry, it is 4 m. from Halliax. It has also cotton and

Spa Town and health resort of Belgium It is 21 m from Liege, with which it is connected by railway It is visited by persons who wish to drink its medicinal waters, which are also bottled for table use. The town has a kursaal and other attraction for visitors, one being the raccourse. In July, 1920, the Supreme Council of the Allies met at Spa

Spa Word used for a place where there are mineral springs, the waters of which are suitable for various complaints. There are spas all over Europe, and some of them have a very high reputation. England has a number of spas, Bath, Buxton, Harrogate and others, and there is a federation for making known the virtues of their particular waters. The French and Carman spas such as Atr-les Bains. virtues of their particular waters. The French and German spas, such as Aix-les Bains, Contrexéville, Homburg and Wiesbaden, are also famous

Space Concept in physics and philosophy of the property in virtue of which rigid bodies can occupy different positions Attempts have been made to give it physical reality, as by the assumption of an all-pervading ether, and for local measurements and experiences Euclid's geometry in three directions at right angles to one another has been sufficient to decide position from any fixed point

Einstein has shown, however, that this three-dimensional geometry ignores the independent velocity of light and its effect upon measurement when the observers are in relative motion Time must be added as a fourth dimension, and the resulting space-time continuum involves the idea of a finite vet unbounded universe—a straight line ultimately returning

to its starting point

Spaghetti Cord-like form of Italian wheaten paste, intermediate in size between vermicelli and macaroni, and prepared from the hard wheats which are rich in gluten Spaghetti along with other rich in gluten Spaghetti along with other kinds of paste is manufactured around Genoa, Italy, and in France with Marseilles as a centre, also in the United States and Canada

Spahi Word used for soldiers from North Africa in the French army They are natives of Algeria and Tunis and are cavalry soldiers Larlier the Spahis were in the service of the sultans of the district The Spahis recipents have French officers. Spahl regiments have French officers

Spain regiments have French officers

Spain Republic of Europe In the southwest of the continent, it covers
190,500 sq m, and forms the greater part of
the Iberian Peninsula It has a long coastline
on the Meditorranean Sea, and one only a little
shorter on the bay of Biscay and the Atlantic
Its land frontiers are the Pyrences, which
divide it from France, and an artificial line
separating it from Portugal The republic
includes the Canary and Balearic Islands and
colonies in Africa, covering 800,000 sq m,
the chief of these are Morocco and Guinea
Pop (1930) 23,560,975
The country has the Pyrences in the north

The country has the Pyrences in the north and the Sierra Novada and other ranges in the and the Sierra Nevada and other ranges in the south Most of the interior is a great plateau in the midst of which stands the capital Madrid It is watered by six great rivers and their tributaries, Guadiana, Tagus, Druro, Alinho, Ebro and Guadalquivir After Madrid the largest cities are Barcelona (the greatest scaport), Valencia, Seville, Malaga, Saragossa, Murcia, Bilbao (the second port), Granada and Cartagena Cartagena

Spain is an agricultural rather than an industrial country, although there are valuable

iron, copper, coal and lead mines, the export of which amounts to a considerable sum Wheat, barley, oats and rye are extensively grown and large areas are covered with vine-yards Oranges, lemons, olives, almonds and other fruits are cultivated Fishing is an important industry

Since 1931 Spain has been a democratic republic The parliament, or cortes, consists of a single chamber, the chamber of deputies, elected by all adults, for four years The president of the state is elected by the cortes and an equal number of other persons and he holds office for six years He selects the prime holds office for six vears. He selects the prime minister and approves the appointment of the other ministers. The people are mainly Roman Catholics, but the church has been disestablished. There is an army raised by compulsory service and a small navy. The country has a system of old age pensions. The unit of currency is the peseta. The metric system of weights and measures is in use. The flag of the republic is red, yellow and number. purple

HISTORY There are considerable remains of early man in Spain, but its recorded history only begins with the settlements of the Phoenicians along its coasts. Later the Greate and the Carthaginians arrived and, having and the Carthaginians arrived and, having crushed the latter people, the Romans made it part of their empire For about 200 years, 530 to 730, the Visigoths had a kingdom in Spain, but much more important was the Moorish one that followed it With its capital at Cordova this covered the south of Spain In the north, somewhere about 1000, little Christian kingdoms emerged, the chief of them being Castile, Aragon, Leon and Navarre. Now and again two or more were united under the same ruler and the process of union culminated in 1479 when Ferdinand of Aragon married Isabella of Castile Two great events marked this joint reign Columbus discovered America and founded there a great Spanish empire, and the kingdom of the Moors was destroyed destroyed

During the 16th century Spain, fed by the wealth of South America, was the greatest country in Europe Its ruler from 1516 to 1565 was the Emperor Charles V, then came his son, Philip II, under whom it began to decline, although for a time this was hardly evident In 1580 the king united Portugal with Spain which meant adding the rich American evident In 1580 the king united Portugal with Spain, which meant adding the rich American colonies of that country to his own In 1700 the last Hapsburg king died and in 1714 after the War of the Spanish Succession, a Bourbon, Philip V, was recognised as king Although less powerful than formerly, Spain played a considerable part in European politics in the 18th century until dominated by Napoleon, who made his brother Joseph its king Early in the 19th century the countries in

who made his brother Joseph its king
Early in the 19th century the countries in
South America made themselves independent
of Spain, and at the end of the century the
Cuban and the Philippine Islands were lost
after a war with the United States In 1833
and again in 1868 there was civil war between
those who wanted a queen and those who
wanted a king Finily the queen, Isabella,
a daughter of Ferdinard VII, secured the
throne and her opponents, called Carlists, were
defeated In 1886 Alphonso XIII became king
and he reigned until 1931 His reign, especially
after the Great War, was marked by considerafter the Great War, was marked by considerable unrest, especially in Catalonia where Barcelona was the storm centre. In 1923 a dictatorship was established and this lasted until 1930. An attempt to restore the old order

failed, and in April, 1931, the desire for a republic was so clearly expressed that the king left the country In June a general election was held to choose a cortes which drew up a constitution and elected a president. Spain in 1934 was the scene of serious strikes and riots. and in 1935 and 1936 attempts were made to set up an independent Republic of Catalonia. The elections of Feb, 1936, were again at tended by serious rioting and resulted in a victory for the Left party

Spalding Urban district and market son the Welland, 14 m from Boston and 93 from London, on the LNE Rly, and a joint line of the LMS and LNE Spalding is an agricultural centre and has breweries and agricultural from the land for multiple and formed for multiple and formed fo and flour mills Around is the fenland famed for its bulbs and its potatoes There is a trade along the river Pop (1931) 12,592

Spandril Term in architecture for the three sided space between the curve or extrados of an arch and the right angle formed by the horizontal line from the springing and the vertical line from the crown of the arch The space is often filled with various forms of decoration carved in relief

Spaniel Group of dogs used for retrieving game There are also diminutive (toy) varieties Spaniels are characterized (toy) varieties Spaniels are characterised by the broad skull with high forehead and large pendulous lobe shaped ears The long hair is silky, curled in some varieties The gun dogs include field spaniel, clumber cocker, springers Sussex and water spaniels Toy spaniels which have not much in common with working the probable, include King Charles Blephelm and spaniels, include King Charles, Blenheim and Japanese

Spark Small ignited particle emitted from a burning substance, or in the case of an electric spark the luminous form

of a discharge of electricity

A sparking plug is an electrical device in an internal combustion engine used to ignite the explosive mixture of gases. It consists essentially of a brass plug enclosing electrodes between whose points is a minute air gap. A ourrent passing through the electrodes causes a spark to pass across the air gap so igniting the gases

Sparrow Common bird (Passer domes fround in most settled parts of the world. About 7 in long it has the short strong boak of the finch tribe. The male has a black throat and more dusky brown plumage than his mate. There is a tree living species (Passer montanus) smaller, more shy and rarer The head and upper parts are chestnut, wings banded with white, white cheeks with a black spot, greyish white under parts. It is to some extent a migrant

Sparrow Hawk Bird of (Accipiter) Of its 20 species the common sparrow hawk (A nissus) is found in Lurope and Asia. In England it lives in the woods and is very destructive to game. It varies in size and colour, the female being larger than the male. The plumage of the upper parts is bluish groy in the male and brown in the female. The third too is much clongated and the wings are short.

invaders Under them Sparta became supreme in the Peloponnese, the original inhabitants of the district being englaved Sparta was ruled nominally by two kings, but in reality by officials known as ephors and a council of clders. The training of citizons was strictly military, all other considerations being sub ordinated to the ideal of service to the state.

Sparta played a leading part in the Graeco Persian Wars but her greatest struggle took place against Athens in the Peloponnesian war (q v) in which she was finally victorious Sparta was now supreme in Greece, but her repressive hegemony gave rise to reprisals, ending in her defeat by Thebes (q v ), and her

gradual decline as a power
The modern town built on the ancient site, is the capital of the prefecture of Lacedaemon.
Pop (1928) 5,799

1154

Spartacus Roman soldier He was born, in Thrace and became a shep herd Later he was taken by the Romans and trained as a gladiator, but he escaped from Capus and joined a band of discontented and desperate men, chiefly slaves He soon became their leader and under his direction they started on a career of plunder, in which much of Italy was devastated, and armies sent against them were beaten in 71 B c, however, Crassus succeeded in crushing them and their

Crassus succeeded in crushing them and their leader was among the killed
After the Great War the name of Spartacus was taken by the German leader, Karl Lieb knecht, and his followers were known as Spartacists They became very strong and in 1919 set up a workers' republic, but after some flerce fighting they were beaten and the

fierce fighting they movement collapsed

Sparteine Colourless oily liquid with a bitter taste It is an alkaloid and is obtained by extracting the tops of the brown plant with acidulated water and distilling the extract with caustic alkali Its salts are used to alleviate heart disease

Its salts are used to alleviate heart disease Speaker President of the British House of Commons and of similar legislative bodies in other parts of the Empire, i.e., the Dominion House of Commons at Ottawa, the House of Representatives in Belfast for Northern Ireland The President of the House of Representatives at Washington is also called the Speaker The first Speaker was Sir Thomas Hungerford in 1377 and the name is due to the fact that he and his successors spoke to the king on behalf of the members The Speaker is elected by the members from among their number at the beginning of each Parliament and is paid a salary of £5000 a year He is guardian of the privileges of the House and the judge of its rules and orders He is generally addressed as 'Mir Speaker' He takes precedence of all other commoners on ceremonial occasions. He is usually made a viscount, and pensioned is usually made a viscount, and pensioned

when he retires The tradition has grown up that the Speaker must not vote or express any opinion on controversial questions. Formerly this was not so The Lord Chancellor, who is the Speaker of the House of Lords, remains a

party politician

Sparta City of ancient Greece also on the banks of the Eurotas in the Peloponness and was traditionally, the home of Mencland (qr) The Spartans of history were Dorian in the Middle Ages the spearmen were an

The weapon was very much used for hunting in England, France and elsewhere To-day it is used by some primitive peoples for warfare and in certain sports, such as pig sticking and salmon fishing The Red Indians use it for solmon fishing The Red Indians use it for killing fish From the spear several weapons have developed Some, like the lance and spike, are used for fighting at close quarters others, like the javelin, are thrown Flint spearheads are very common remains of the

palaeolithic age (Mentha viridis) Spearmint (Mentha viridis) Peren-labiatae It is the common mint widely cultivated in kitchen gardens The creeping root throws off numerous underground runners The stems are square and erect, with opposite deep green aromatic leaves The minute purple flowers are borne in numerous close whorls, forming a spike of bloom It is extensively used as a flavouring for chewing gum

Special Constable Man sworn in to assist the police in times of emergency By law every able-bodied man is bound to serve as a special constable if required In England special constables were enrolled during the disturbances that took place in 1831 and 1848, and again during the general strike of 1926 During the Great War special constables undertook many of the duties performed by the police and certain others made necessary by the conditions of the time

Special Reserve Former section Army It was created in 1907 to take the

Army It was created in 1907 to take the place of the militia which was then abolished Each infantry regiment had its special reserve battalion, the men of which were trained for a certain period each year During the Great War these battalions were used to supply men to the regular battalions in the field The terms "special reserve" and "extra reserve battalions" were abolished in 1921

Species Term in biology for a group of organisms, having certain definite characters in common and differing widely from other groups Within a species are varieties or groups of individuals having small and variable characters, while a number of species resembling each other more or less closely constitute a genus

Specific Gravity Term expressing density or weight of unit volume of substance to that of water or other standard substance In the case of gases, air or hydrogen is taken as the standard, and pure water at 4°C for liquids and solids Specific gravity is determined in several ways by one method a solid is weighed first in air then in water, the weight in air is divided by the loss of weight in water, the quotient giving the specific gravity. the quotient giving the specific gravity

Specific Heat Ratio of the amount of heat needed to raiso the temperature of a unit weight of a substance by 1°C to the amount of heat required to raiso one gram of water through 1°C. The specific heat varies with the state and temperature of the substance, for all elementary substances the product of specific heat and atomic weight (the atomic heat) is approximately constant

Spectator The Series of Essays produced by Addison and Steele, which ran from Mar 1, 1711, to Dec. 6, 1712

important branch of many armies The Swiss spearmen were famous and there were spear non-political paper, which attempte men at Flodden and other battles It was a non-political paper, which attempted to bring learning into the everyday life of clubs and homes. It had also a strong moral bias, standing for purity of life, thought and scholarship, in contrast to the life of the times, influenced as it still was by the Restoration

Spectroheliograph of spectrograph, or spectroscope in which a photographic plate takes the place of the eyepiece It is used for photographing the sun by monochromatic light, that is, light of a definite colour, corresponding to a certain wave length By this means a permanent record is made of the distribution on the sun's disc of the element responsible for the particular colour band chosen

Spectroscope Instrument devised for the study of the characteristics of light which is broken up into a spectrum consisting of the seven colours seen in the rainbow, red at one end, violet at the other. In a spectroscopa light pages the constant of the c other In a spectroscope light passes through a narrow slit, then by means of a lens is formed into a parallel beam which, passing through a glass prism, is resolved into a spectrum A small viewing telescope is attached for enlargement or photography.

Spectroscopy Study of the spectra of light from various sources and their analysis by means of the spectroscope Spectroscopy owes its inception to the discovery of dark lines in the solar spectrum by Wollaston and later by Fraunhofer, followed by their interpretation by Kirchhoff in 1859 These absorption lines form an absorption spectrum and indicate the presence of certain elements in a gaseous state Bright lines also are formed by a gas under low pressure or by the glowing vapour of an element, and such a spectrum is known as an emission spectrum By this means the as an emission spectrum. By this means the constitution of the sun and stars has been ascertained

Spectrum The continuous, coloured band formed by the passage of white light through a prism, thereby undergoing refraction The seven colour regions are red, orange, yellow, green, blue, indigo and violet, each differing from each other in wavelength, intensity, etc Beyond the red end of the spectrum are the infra red rays, and beyond the violet end the ultra-violet rays

Speech Faculty of uttering articulate sounds or words. It may take the form of a monologue or of conversation The power of speech comes naturally to all, save a very few, but correct speech, the arrangement of words in their proper order and giving to each its proper pronunciation, is acquired by education. At the public schools the day on which prizes are presented and literary and dramatic exercises given is called the speech day

Speech House Building in the Forest of Dean It is 7 m from Lydney near the station called Speech House Road on the GW Rly It was built in 1680 and in it the verderers of the forest held their courts It is now an hotel Speed Rate of motion It is the test of motion in contests of various kinds, running, motoring, etc. In running the speed decreases in proportion as the length of the course increases for instance a man can run 100 yds at a far higher speed than he

of the course increases for instance a man can run 100 yds at a far higher speed than he can run 3 m. With animals, birds and vehicles

Heading authority He is employed by the Home Office to report on cases of poisoning and in all cases of this kind his opinion is regarded as of the highest value In 1923 he was knighted

Spilsby Market town of Lincolnshire the L.N.E. Rly The parish church dates from the 14th century, and the chief industry is trading in agricultural produce. Sir John Franklin was born here, and the market place

has a statue of him

Spinach Edible herb of the natural order Chenopodiaceae It was introduced into Great Britain in the 16th century and is now a popular table vegetable It should be thoroughly cleaned and then chopped and boiled It can be served on toast, as an entree, while spinach and eggs is a tayoutte dish

favourite dish

Spindle Tree and hedges in Great Britain It bears glassy lance shaped leaves and clusters of small greenish flowers followed by crimson fruit. It is about 20 ft high and has a smooth, grey bark The wood, being hard and tough, is used for making skewers and the like Its botanical name is known as a smooth. like Its botanical name is Euonymus europaeus It belongs to the order Celastraceae, and is also found in Europe and Africa

Spine Most important part of the supporting the skull and ribs and enabling the body to be maintained in an erect position. It is composed of a series of bones placed one above, or in front of, the other and called vertebrae The arches attached to the vertebrae form a continuous canal in which the spinal cord is lodged and protected from injury

Spinel Mineral composed chiefly of magnesis and alumina, and crystallising in octahedra. There are several kinds of spinel, red, black and green, the two last being known as pleonaste, picetite, gahnite and hereynite. The finest kind of red spinel is the genus known as ruby, found chiefly in Coylon Siam and Burma

Spinet Musical instrument. It was very popular in the 16th, 17th and 18th centuries and there are some fine examples in existence It was smaller than the harpsi chord, but of the same type The keys were pluched by means of quills The smaller ones were placed on the table when in use, but larger ones had legs like a plano The word in Italian means little thorn

Spinning Art of twisting fibrous yarn fitted for weaving Two operations are necessary (1) Uniform quantities of fibre have to be drawn out continuously and (2) the drawn out material has to be twisted to make it cohere and give it strength and toughness

toughness The carliest spinning apparatus was the distant and spindle which were largely super seaded by the spinning wheel still in use in Northern and Western Scotland for the local manufacture of worsted yarns Mechanical spinning had its origin in an invention by Lewis Paul of Birmingham in 1738 for drawing out fibres by accelerated motion, a principle

Spilsbury Sir Bernard Henry. English the was educated at Oxford and studied medicine in London He became a lecturer tat St. Bartholomew's Hospital, his subject being pathology, and on this he soon became a lecturer target authority. He is employed by the long pathology and the soon became a leading authority. He is employed by the long target authority. Meanwhile in 1704 James Hargicaves had produced his spinning jenny with which 8 threads a number increased later almost indefinitely, could be spun at once From 1774 Samuel Crompton of Bolton carried improvements further Upon these early inventions are based the complex and delicate machiners employed to day in Manchester and other great centres of the spinning industry

Spinoza Benedict Dutch philosopher Born at Amsterdam, Nov 24 1632, he was by birth a Jew, later he left that faith He lived chiefly at the Hague

where he was employed in polishing lenses and there he died Feb 21, 1677
Spinoza devoted his life to the study of philosophy and embodied his ideas in his Ethica and other works published after his death. He also wrote an explanation of the philosophy of the Descartes to which he owed much His Tractatus Theologico Politicus is an expansion of the ideas of Descartes

Spinoza s philosophy is a pantheistic one

There is only one substance—God the absolutely influite This has infinite attributes, which together make up the universe, but man is only acquainted with two of them, thought

and extension

Spion Kop Hill in Natal It overlooks Tugela and became known during the war in South Africa in 1900 It was held by the Boers, who were guarding the way to Ladysmith, when on lan 23, 1900, it was attacked by a force under Sir Charles Warren It was taken during the night and held during the following day, but later, owing to a misunderstanding, it was abandoned Later it appeared that the step was unnecessary

Spiræa Genus of plants of the natural order Rosaceae and sub-order Spiraeae, containing many species of herbaceous Spirace, containing many special that the latter plants and low deciduous shrubs, the latter frequently planted for ornament. Two of the frequently planted for ornament. Two of the herbaceous species, dropwort and meadow sweet are natives of Britain. In Sweden the tubers of dropwort are ground and made into bread. An American species called hardhack

is used as a tonic and astringent.

Spiral Term applied to a screw like curve which continually recedes from a centre about which it revolves. In geometry a number of different forms of spirals are recognised such as the Archimedian Logarithmic Hyperbolic and the Ionic Volute, the latter being a characteristic feature of the

latter being a characteristic feature of the lonic Column in Greek architecture

Spire In architecture a tall, sharply tapering structure rising from a tower or other foundation. It is a feature of Gothic architecture. Most of the Gothic architecture most of the Gothic architecture managements. cathedrals and churches possess spires, which are occasionally seen on secular buildings of the same style it originated in the 10th or 11th century and is regarded as being a development of the pyramidal roof then seen in parts of France and Germany The first spires were simply built upon towers later spires and towers were united in a single structure with pinnacles, crochets and lights and no clear demarcation between the two The loftiest spire in England (406 ft) and perhaps the most beautiful, is the one on Sallsbury Cathedral another beautiful example is that of the church of S Mary the Virgin, Oxford cathedrals and churches possess spires, which Oxford

Spirit Word used for the soul of any unnatural substance, the part of

man that is not the body It is also used for the angels, who are sometimes called spirits, and to give an idea of God, who is the Supreme

Spirit Sec SOUL.

Spirits Word used for corrain aboutions and also for solutions and also for solutions are brandy. Word used for certain alcoholic prepared by chemists Examples are brandy, whisky, gin and rum which are prepared for drinking, and methylated and other spirits that are used as sources of power Spirits of a chemical preparation

Spiritualism Name applied to the of intercommunication between the living and the dead The alleged intercourse is usually carried out with the help of mediums who submit to the direction of supposed "controls" or spirits acting as agents for the spirit world Apart from exposures of imposture, seances, or gatherings, for the purpose of getting into touch with the departed, which have been held in the presence of scientific investigators, have revealed remarkable phenonican These, with other manifestations, are carefully noted by the Society for Psychical Research, and have been made the subject of various statements by the late Sir Arthur Conan Doyle, Sir Oliver Lodge and others Lodge and others

Spitalfields District of London It is in the borough of Stepney and lies to the east of the city At one time it was a centre of the slik industry, it is now noted for its market where fruit and vegetables are sold This was enlarged in 1928 and is the property of the city corporation Near is the London Fruit Exchange At one time there was the Priory of St. Mary Spittal here, hence

the name of the place

Spithead Stretch of water between Hampshire and the Isle of Wight It is 12 m long and 4 m wide and owing to its nearness to Portsmouth is frequently used by warships It is continued by the Solent.

Spittal Watering place of Northumber-land It is opposite Berwick at the mouth of the Tweed There is some fishing

Spitzbergen Group of Islands in the Arctic Ocean between Nova Zembla and Greenland Their estimated area is about 25,000 sq m The principal island is known as West Spitzbergen (15,000 sq m) The sovereignty of Norway over the Spitzbergen Archipelago was recognised by the Great Powers in a treaty dated ten 3 1820

Spitzbergen Archipelago was recognised by the Great Powers in a treaty dated Feb 3, 1820. The islands are mostly mountainous, some peaks rising to over 5000 ft, and vegetation is scanty. The principal mineral is coal Trappers and hunters visit the islands in search of seals, foxes and polar bears and there is a wintering population of about 1200, which is considerably increased in summer. The Norwegian Government maintains a highpower wireless station on West Spitzbergen. The climate is Arctic, tempered by the Gulf Stream

Spleen in the left hypochondriac region Capable of expansion and contraction, and liable in diseased conditions to enlargement up to several times its natural size, which is about 4 in long by 2½ in broad, it weighs from 6 to 8 oz In a general way the spleen is a blood modifying gland, both destroying blood convictors and forming now nord. corpuscles and forming new ones. It can be excised, but the operation is a serious one In'old times the spleen was supposed to be the

seat of envy, malice and other unpleasing emotions-hence such terms as spleenful, splenetic, etc.

Spleenwort Any form of the genus Asplenium of the natural order Polymodiaceoe The commonest British form is Ceteract officinarum, or scaly spleen-wort, which grows on rocks and misonry and is very suitable for cultivation in rock gardens There are altogether about 300 species of Asplenium found in Europe, Western Asia and North and South Africa, nine of them being indigenous to Great Britain The latter include maldenhair spleenwort (A trichomanes), black spleenwort (A adiantum nigrum) and sea spleenwort (A marinum)

Spode Chinaware made by Josiah Spode It was first made at Stoke in 1770, when Spode used crushed bone with his soft paste The result was a very transparent ware which was beautifully decorated with flowers and gilt

Spofforth Frederick Robert Aus-Balmain, New South Wales, Sept 9, 1853, he soon began to play cricket for the state In 1878 he was a member of the team that visited England and he belonged also to later Australian teams and played against England in Australia He won fame as a bowler, being called the demon, and was certainly one of the greatest bowlers the world has seen In test matches he took 94 wickets for 1731 runs, and many other remarkable feats stand to his credit, including on one occasion 11 wickets for 20 runs Spofforth settled in London and was engaged in the tea trade until his death at Surbiton, Surrey, June 4, 1926

Spohr Ludwig German composer Born at Brunswick, April 5, 1784, he soon played the violin with extraordinary skill soon played the violin with extraordinary sain and became a member of the orchestra kept by the Duke of Brunswick He became Director of Music at Gotha in 1805 and from 1813-15 was at Vienna in a similar position In 1822 he went to Cassel as Director of Music and there he remained until his death, Oct 16, 1859

Spohr is chiefly known as a composer and especially for his oratorio The Last Judgment He also wrote other oratorios, operas, symphonics and concertos for the violin His violin course is still authoritative Spohr, who conducted concerts in London in 1820, wrote an Autobiography, which has been translated into English

Sponge Lowly type of animal belonging to the Phyllum portlera In its simplest form consists of an individual organism, having a cylindrical or vase-shaped body, forming a three-layered sac, pierced by numerous pores through which water passes into the inner cavity, whose walls are lined with flagellate cells The water finally is expelled by a terminal exhalant pore. The more complex colonial sponges assume a plant-like growth, and secrete minute siliceous or clacarcous spicules, or have a horny skeleton like the common sponge.

Spoonbill Genus of bird Allied to the ibis and more distantly to the stork, it is the only European species of of Platalea leucorodia Formerly a resident in the pay only an econological Great Britain but now only an occasional visitor, it is white in colour with a tinge of pink or buff, and has a remarkably long, flat bill much dilated in spoon-like form at the tip It lives usually in marshes and always near water

Sporades Islands in the Egean Sea. It is on the Connecticut river and is a manu facturing centre Pop (1930) 149,900 helonged to Turkey During the Turco Another is in Missouri and a third in Ohio belonged to Turkey During the Turco Italian War of 1911 Italy occupied 13 of the islands and in the course of the Balkon War, which broke out in the following year, Greece annexed the others As a result of the Great War the Sporades now belong to Greece

Spore Non sexual reproductive cell It is met with in the flowerless plants and is capable of giving rise to a new plant which may or may not resemble the parent. In ferns the spore develops into a small leady prothallus or sexual plant quite unlike the fern, and this bears the sexual gametes which produce the

fern.

Class of parasitic protozoa Its early stages are amoeboid Sporozoa or flagellate but it is without locomotor organs in the adult state, which is usually passed in an encysted state in the tissues of a host Reproduction occurs by means of spores which divide up into small bodies or sporozoites These sporozoites become transferred ultimately to another host. Some disease germs belong to this class, such as the germs of malaria, tsetse fly disease and Toxas cattle disease Others are parasitic in insects and crustacea or in the flesh of mammals

Sprain Injury of the ligaments, etc., around a joint, such as the ankle When small blood vessels are torn, there is

much bruising and swelling

Treatment—Hot compresses should be applied A bad sprain should always be attended to by a doctor, as special bandaging and some times a splint are necessary must the injured foot be used On no account it should be kept up on a chair or in bed wrist can be put in a sling A sprained

Sprat A small fish (Cluyea sprattus)
Sprat About 5 in long, of the herring
family, it is distinguished from the herring by
having a sorrated belly and no iteeth on the
vomer It abounds along the British coasts and was formerly freely used for manure A popular article of food, it has been known to figure in tins as a sardine Young sprats are taken in estuaries and sold as whitebait.

Spree Saxony near the border of Hohemia and flows into Prussia until at Spandan't falls into the Havel It is 226 m long and passes through Berlin. Part of its course has been canalised, and by means of canals it is connected with the Oder and so with the Bultic Sea

Spring Natural outflow of water from the earth Water percolates through a permeable bed such as sandstone dr limestone until it reaches one that is imper-meable Heroit accumulates, ultimately finding its way by fissures or joint planes until by pressure the water is forced up to the surface pressure the water is forced up to the surface Mineral springs are formed by water dissolving mineral matter in a porous stratum, and these may be saline, chalybeate, sulphurous Hot springs occur where water rises from a great depth or in volcanic areas

Springbok Kind of gazelle It is found in South Africa, and is famed for its power of springing when running It is about 30 in high and has

The best known Springfield is the chief town in Illinois It is 186 m. from Chicago, and is famed for its connection with Abraham Lincoln, who facturing centre Pop (1930) 71 864

Springhill Town of Nova Scotia It is railway, and is a coal mining contre Pop 6355

Spring-Rice Sir Cecil Arthur English Born Feb 27, 1859, he was educated at Eton and Oxford and entered the Foreign Office in 1884 During the next 24 years he gained experience in various capitals, and in 1908, being then a hnight he was appointed Minister to Sweden In 1913 he was transferred as ambassador to Washington, and was in the United States when the Great War broke out He dealt with many difficult matters that arose while that country was neutral, and was still ambassador when she entered the War In 1918 he resigned, and he died at Ottawa, Feb 14, 1918

Springtail Small wingless insects Of the sub order Coblembola it The sub order Coblembola it is found under stones, bark, and flowerpots. There are some aquatic species and a member of the family, known as the glacier flea, occurs on the lee in the Alps. The name is derived from a forked organ under the abdomen which, on being released, acts as a spring and throws the insect into the air.

Sprinting Full speed racing over short distances Records are commonly applied to 100 yds, the world s professional record being held by J Donaldson (Australia), who ran 100 yds in 9 secs in 1910 The amateur record for this distance is 98 secs, in which time it was run by F Wykoff (USA) in 1930 The record time for women is 11 secs, made by G Radideau (France) in 1926, and E Robinson (USA.) in 1929 In these sprint races the start is usually made from a crouching races the start is usually made from a crouching position with the fingers lightly touching the ground

Sprocket Projection on the periphery of a wheel It is also found on a capstan and its purpose is always to engage a chain, thus a cog wheel acting upon the links

of a chain is termed a sprocket wheel
In architecture it is a piece of wood at
tached to the end of a rafter to form projecting

eaves to a roof

Spruce Genus of the coniferac inhabiting cold and temperate regions of the northern hemisphere Picca excelsa and northern hemisphere Picca czelsa and P abtes (Norway spruce) are important timber trees in north Europe and Asia, glving out timber scanfold poles, ladders and pit props In Norway wood pulp is made from them

Sprue Tropical disease It is met with in Asia and Australia and characterised by acute diarrhesa and ulceration of the mouth it is one of the complaints specially dealt with at the Hospital for Tropical Diseases 25 Gordon Street, W C 1

Spurge Genus of plant Of the natural order Euphorbiaceae, mostly her baccous, but some woody, about 12 species are natives of Britain All have a resinous milky ls famed for its power of springing when running It is about 30 in high and has magnificent horns In colour it is yellow

Springfield Name of several cities in the United States Tho largest is in Massachusetts 100 m from Boston. Baptist |

Spurgeon Charles Haddon Baptist preacher Born at Kelvedon Essex, June 19, 1834, he began teaching in 1849, preaching in Cambridge at 18 He moved to London in 1854, where his eloquence and wit soon began to attract large congregations, people coming from all over the world to hear him He published weekly sermons, which attained large circulations, and was the author of many religious books He founded the Stockwell Orphanage in 1867, and died at Mentone, France, Jan 31, 1892

Spurn Head Headland of Yorkshire ast coast that turns into the Humber Its

east coast that turns into the Humber Its length is about 21 m and on it are two light-

houses

Spurs Battle of the Fought between the English and the French, Aug 16, 1513 It was fought just outside Thérouanne, which the English were besieging The French advanced to relieve the place, but when they appeared the defenders were ready for them, and after a sharp fight they were beaten back This name was given to the skirmish because the knights used their spurs to hasten their escape

Spy One who collects information in time of war He assumes the role of a comrade or fellow countryman of an enemy By international law a spy, if caught, may be shot The organisation that controls spying, both in peace and war, is known as the secret service During the Great War there were spies in all the belligerent countries as well as in the armies

Squadron Military, naval or air squadron is a division of a cavalry regiment, which usually possesses four, each under a major or captain In the navy a squadron is a number of warships under an officer of flag rank, battleships and battle cruisers are usually grouped in squadrons of four In the air service the squadron is the smallest number of machines under a single command. The rank of squadron leader in the air service is equivalent to that of major in the army and

lieutenant-commander in the navy
Square Root Quantity that, multiplied by itself, gives a
specified number or formula There is a regular method of finding the square root of a number, although in most cases this is not an exact figure, but runs to many places of decimals. The square root of 256 is 16, but the square root of 356 is 18 and a row of decimals. Square roots are also obtainable in algebra.

Squash Rackets Indoor ball game it is played on a smaller court than in ordinary rackets and is limited to two players. The ball is of indiarubber and much larger than an ordinary racket ball being of the same size as that used in fives It is a slower game than ordinary rackets, but is extremely popular and an excellent test of accuracy in placing the ball

Squatter One who settles on land that is unoccupied In English law if such a person has not been disturbed in his possession for a period of years he becomes the owner of the land In the United States the doctrine of squatter sovereignty is that squatters, or actual residents in a territory, have the right to make their own laws

Squid Calamory or cuttle fish The name or other causes, to right itself on the control is more particularly applied to the levers being placed in their normal position small variety (Lohgo vulgaris) found along the Lateral stability preventing a rolling action,

British and French coasts Like some of the other cephalopods it carries a reservoir of inky fluid which it squirts out in order to baffle an enemy Its skeleton is quite commonly found on some English beaches

Squill Two different plants One is of the natural order of Liliaceae, and is now more commonly known by its Latin name scilla, the other is the officinal squilla (Urginea Scilla) the dried bulb from which, in powdered form, is used medicinally as an expertenced or medicinally as an emetic and expectorant

Squinting (or strabismus) Want of parallelism in the visual axes of the eye Causing the eyes to look in different directions when the intention is to direct both on the same object, it may be due to loss of power in one of the eye muscles with consequent over activity on the part of the other Strabismus may be either convergent, other Strabismus may be either convergent, when the squinting eye is directed inwards, divergent, when it is directed outwards, the former being much the more frequent.

Squire Variant of esquire The first esquires were the youths who attended the knights in the field of battle and

later became knights themselves Later the word was used in England for a landowner who was not a peer, usually one who owned a small estate, and was the chief man in his neighbourhood. These squires played a large part in the life of the country during the 18th and 19th centuries. The changes of the 20th century have greatly reduced their numbers

Squire Sir John Collings English man of letters Born at Plymouth in 1884, he became literary editor (later acting editor) of The New Statesman, and in 1919 founded The London Mercury, of which he was editor and chairman His widely popular writings (Apes and Parrots and Sunday Mornings are recent titles) include essays, reviews, poems and parodies He was knighted in 1933 in 1933

Squirrel Small rodent of the family Squirrel Sciuridae Mostly arboreal and found nearly everywhere except in Australia, the British variety (Sciurus vulgars) measures 18 in long, including an 8 in tail, and weights about half a pound It nests in trees and eats berries, nuts, and fir-buds, collecting a store for winter, during which it hibernates awakening from time to time to feed It is being rapidly displaced by the grey squirrel (Scinercus), introduced from North America, which is multiplying so freely as to become a nulsance Its extermination, owing to its nuisance Its extermination, owing to its predatory habits and its fondness for birds'

eggs, is being organised in several countries flying Squirrels are a group of squirrel-like rodents which, by means of a membranous extension of skin of the flanks between the limbs, can glide considerable distances through the air from tree to tree. Different greeles the air from tree to tree Different occur in N America, India and Africa Different species

Stabiliser Term used in aeronautics tabiliser It denotes any appliance employed for the purpose of imparting stability to aircraft when in motion, and is frequently employed to denote the fixed horizontal portion of the tail of an aeroplane Stability Term used in aeronautics It has reference to the power of an aeroplane when disturbed by air pockets, or other causes to right itself on the control

stability the tail plane also is inclined Stability in relation to varying wind currents is obtained by the action of the vertical fin and of the rudder

Stabilization Action of making any thing firm or stable It is used chiefly in connection with money which in order properly to fulfil its functions, must have a known value fixed in relation to a standard commodity, which in most countries is gold. This was not the case during the financial derangement that followed the Great War, when the mark, the franc, and other currency units fluctuated violently in value The evil was remedied by stabilising them, i.e. The evil was remedied by stabilising them, i.e. giving them a new value in relation to gold This new value is usually expressed in terms of exchange relation with either the £ or the dollar, eg, in 1924 Germany stabilised hereurrency at 20 renter marks to the £ Italy followed suit in 1927 at 92 lire to the £ and France in 1928 at 125 francs to the £

Enclosure used for sports and Stadium games The original stadium was a Grock measure of length, about one tenth of a mile It was then applied to a race run ever a course of this length and finally to the building or enclosure in which such races were held There were stadia at Olympia, Athens, and in many other Greek cities cities

In modern times the word has been revived A stadium has been erected at Wembley, London, and there are many others in Europe and America, some containing accommo dation for 100 000 persons Those at Berlin and Alexandria and the one built at Los Angelos for the Olympic Games of 1932, are notable examples Thore was one at the White City Shepherd Bush, London, built for the Olympic

Games of 1908

Stadtholder Name formerly used in the Netherlands for the highest official The first stadtholders were representatives of the King of Spain, but in 1579, whon they became independent the northern provinces elected stadtholders of their own In Holland the office became practically heroditary in the family of Orange and was held by William the Silent and subsequently by his great grandson William III of England The office ceased to exist when the Netherlands became a kingdom in 1815

Stael Anne Louise Germains, Madams de Born in Paris April 22 1766 the daughter of Necker, the French banker and Minister of Finance, she achieved fame as a writer, a conversationalist and a society She married Baron de Stael Holstein Swedish ambassador in Paris and wrote Corinne Delphine and De L'Allemagne, be sides many other books The first named brought her European fame and she visited England, Germany Austria and Italy Her liberal tondencies greatly annoyed Napoleon, who persecuted her Her second husband was Albert de Rocca She died July 14, 1817

Staffa Island of Scutland One of the Hebrides it is part of the county of Argyll and is 6 m north of Iona It covers only 71 acres but is famous on account of its caves, which are of basalt—the chief is Fingal's Cave which is over 200 ft—long—The island is uninhabited

Staff College Training college for force officers Only a selected number of officers

is mot by a slight inclination from the hori-zontal of the wings, and to give longitudinal of the examinations is a great help to pro or the examinations is a great field to promotion. Every modern service has its staff college with a complement of professors and lecturers. In Great Britain the army staff college is at Camberley, the naval staff college at Greenwich, and the air force staff college at Andover

Stafford Borough, market town and It is on the river Sow 133 m from London and 23 from Birmingham, by the L MS and L N E Rlys The buildings include the beautiful Church of S Mary, once collegiate, the restored Church of S Chad, the shire hall and the town hell There were perfect in There was a castle in and the town hall Norman times the present building is modern.

There are brine baths and salt is prepared, and the town's industries include boot fac tories and engineering works Izaac We was born in the town Pop (1931) 29,485 Izeac Walton

Stafford Marquess of English title now by the eldest son of the Duke of Sutherland Balf de Stafford who Duke of Sutherland Raif de Stafford, who lived in the castle at Stafford, was created earlin 1351, and his descendant was Humphrey Stafford, Duke of Buckingham The title became extinct in 1521 but in 1688 it was revived for Henry Stafford Howard, a des cendant of the carlier Staffords It became

extinct for the second time in 1762
In 1768, Earl Gower, the head of the family of Leveson Gower, was created Marquess of Stafford, and his son the 2nd marquess, was made Duke of Sutherland in 1883, having married the heiress of the Earls of Sutherland The seat of the marquess was Trentham Hall

in Staffordshire, now demolished

Staffordshire Midland country of England In area, 1169 sq m, it is hilly in the north but for the most part gently undulating, with the low upland of Cannock Chase, now a coalfield, in the centre The chief river is the Trent. In the north are the Potteries, embracing Hanley, Burslem, Stoke upon Trent, etc In the south is the Black Country, in which, at Wolver hampton and Walsail, iron in all its branches is manufactured There are some 600 collieries and the browerles of Burton on Trent are world renowned world renowned

Stafford is the county town, but there are many other more populous centres. For parliamentary purposes staffordshire is divided into seven divisions each returning one member Among famous natives are Dr Jo Izaac Walton and Josiah Wedgwood (1931) 1 431 175 Johnson,

Stag Male of the red deer Stags in Scot land are stalked, and shot with a rifle On Exmoor, in the New Forest and in Ribblesdale, Yorkshire wild red deer are hunted the Exmoor season lasting from Mar 25 to May 10 and again from Aug 12 to Oct 8 Elsewhere the practice is to carry a stag to the meet in a van and to set on the hounds a quarter of an hour after the carted stag has been released

Stage Platform on which plays are per The term has come to be applied generally to the dramatic profession Greel and Roman theatres were provided with fired stages placed in the former case opposite the amplitheatre of seats and on a level with the lowest row Considerable enlargement of the stage and the introduction of stage machinery characterised the Roman theatre Many early stages on which morality and

THE STAGE AS A CAREER—The lure of the stage is proverbial, but it is well that the aspirant to a career in the theatre should consider carefully various aspects of this exacting calling, which at the present time is woefully overcrowded

What are the essential qualifications? The greatest a tor and manager of the past half century laid it down that the actor must "first satisfy the eve and then please the ear." It being understood, of course, that he must also gratify the intelligence of his audience Being assured of these abilities, there is no reason why he should not climb to the top of the tree

For the technical part of his instruction there are admirable institutions, namely, The Royal Academy of Dramatic Art, The Academy of Music, The Guldhall School of Music, three chartered bodies which employ skilled actors to teach the beginner But valuable as the theory may be, it is by practice alone in the presence of the public that the actor can acquire full command of the rudiments of his art, a process which it was once said, took a man ten years of steady application to master and a woman five years. The best training a beginner can secure is by playing a series of parts, starting with the smallest, in a good class Repertory Theatre

After a year s work in a recognised school of acting, the novice is eligible for election as a probationer, and after forty weeks employment in a theatre, as a full member, by the Stage Guild (Trafalgar House, 9 Newport street, W C 2)

Stage Coach to some extent goods Vehicle that formerly carried passengers and it was drawn by two four or even more horses, and had seats inside and outside with a boot for the luggage. It appeared in the 17th century, but its most prosperous period was the early 18th century, and that before it was the early 18th century, and just before it was superseded by railways. The horses were changed at the end of each stage, which was a public-house on the route

Staggers Disease of horses, cattle and sheep It has various causes, heart failure, brain disease and constipation being among them. It causes an imperfect coordination of the muscles and the affected animal trembles and often falls down. It is usually incurable.

Staghound Breed of dog used for hunting stags. The modern staghound is a large type of forhound, different from the staghound of old which was a kind of bloodhound. There are several packs in

Luciand and Ireland

Stained Glass Term used to describe glass coloured by fusing metallic oxides into it or burning pigment into its surface. Among the earliest references to stained glass are the mention of a window given to the Abbev of Tegernsee, Bavaria in AD 999 and the redecoration of Rheims Cathedral with windows by Bishop Adalbaron. There are many fine examples of the 13th and 14th centuries eq, at Chartres Cathedral, Canterbury, York Minster, King's College, Cambridge and elsewhere.

Stainer Sir John English composer be become a chorster in St Paul's Cathedral

mystery plays were performed were natural or morable ones. The use of a revolving stage is a modern development organist at the university of Oxford. In 1872 he returned to London to become a modern development organist at St. Paul's, where he remained until 1888, when he was knighted. In 1889 he was elected Professor of Music at Oxford where he remained until his death, which occurred in Italy, March 31, 1901 Stainer composed several cantatas, notably, The Daughter of Jarrus and The Urucifixion, and a number of oratorios

Urban district of Middlesex. Staines It stands on the Thames, where it is joined by the Colne 19 m from London, and can be reached by the GW and SRIvs. Brewing is an industry A bridge crosses the Thames here Pop (1931) 21,209

Stainland Urban district of Yorkshire (WR) It is 3 m south of Halifax and 193 from London by the LMS Here are textile mills and paper mills Lly Pop (1931) 4246

Stair Earl of Scottish title held by Stair the family of Dalrymple John Dalrymple, the first earl, was a lawver who was made a viscount in 1690 and an earl in 1703 He died in 1707 His son John, the 2nd earl (1673-1747), was a soldier who fought against the French between 1702 and 1714 and again in 1712 From 1715 to 1720 he was ambassador in Paris He was also famous for the improvements he made on his estates. amoussauor in rais he was also famous for the improvements he made on his estates. He died, May 9, 1747, when there was a dispute about the succession This, however, was settled, and the title is still held by the Dalrymples. The earl's eldest son is called Viscount Dalrymple and his estates are in Wigtownshire and Midlothian

Stalactite Calcarcous figure It is in shape and is formed by the steady dripping of water from the roof of caves Each drop when it evaporates leaves behind it a tiny speck of carbonate of lime which it has collected in passing through the roof of the cave These in time form a stalactite, which is often of fantastic shape Together the stalactites are a very remarkable, and some-times, a beautiful sight. There are examples in England in the caves at Cheddar and the Peak cavern in Derbyshire the finest being

scen at Jenolan in New South Wales
Stalagmits are of similar formation, but
are found on the floor of the cave. They are
built from the ground unwards usually where

the water drops from the roof

Stalbridge Town of Dorset It is 6 m from Sherborne, on the Ot W Rlv Here is a 14th century market cross. The title of Baron Stalbridge has been held by the family of Grosvenor since 1886 Pop (1931) 1222

Stalin Joseph Vissarionovitch Russian The son of a cobbler he was born in 1879 in Tills, and at 17 joined the Social Democrats in Russia and started a revolutionary agitation in Between 1902 and 1912 his political Georgia Between 1902 and 1912 his political activity led to frequent imprisonments, from each of which he escaped He was one of the editors of Pravada in 1912-13, and directed the Bolshevik campaign of 1913 in the Duma, though not himself a member He became general secretary of the central committee of the Russian Communist party in 1917, and on Lenin's death, in 1924 succeeded him as dictator He has since held a leading place in ne became a chorister in St. Paul's Cathedral Russian politics. He wrote Leninism, 1928. He then studied the organ and became, in His real name is Dzhugashvili Stalybridge Borough of Cheshire and Lancashire Situated on both banks of the boundary River Tame, on the L MS and L N E Rlys it is 71 m F by N of Manchester with which it is connected by tramway It remained a small village until 1776 when a cotton mill was started there, and then it grew rapidly in importance until it had, as now, large cotton spinning and calico weaving factories, iron foundries and machine shops It was created a municipal borough in 1857 and a Parliamentary borough in 1867 Stalybridge and Hyde now constitute a Parlia mentary division of Cheshire returning one member Pop (1931) 24,823

Stamboul Name formerly applied to part of the city of Constantinople (qv) Recently the name Stamboul, or Istanbul, has been applied by the

Turks to the whole city

Stamen Part of a flower It is the in dividual part of the androccium or floral whorl next inside the corolla and sur rounding the gunaceum or pistil A typical stamen consists of a filament, anther and connective The anther, usually two-lobed, forming a case holding the pollen grains, is essential to reproduction, as each grain forms ultimately, by division, two male germ cells. The stamens are regarded as highly modified floral leaves, the filament representing the least stalk while the author corresponds to the rounding the gynacceum or pistil A typical leaf stalk while the anther corresponds to the leaf blade

Stamford Town and borough of Lincoln-shire A number of students from Oxford attempted unsuccessfully in 1833 to establish a university here Burghley House, the seat of the Marquess of Exeter, contains a fine collection of pictures The town is a trading and agricultural centre Pop (1931) 9946

Stamford Bridge Village of York m. north east of York on the River Derwent, on the L N E Riy, and is famous for the battle fought here, Sept. 25 1066 The Norwegians under their king Harald Hardraada and Tostig, brother of the English king, Harold, had landed in the Humber and marched to York Harold collected are grown in the couth Harold collected an army in the south and hurried northwards. After a hard fight the English prevailed and the Norwegian king was killed

Stamford Bridge Athletic ground It is in the Fulham Road near a station on the District Railway, and is the headquarters of the London Athletic Club, which opened it in 1878 Here the Chelsea football club play their

matches.

Stamfordham Baron. English cour tier Arthur John Birge was born June 18 1849 his father being Vicar of Stamfordham in Northumberland He himself became an officer in the artillery and served against the Zulus in 1878
79 He then joined the royal household as private secretary to the queen, and in 1895 became her principal secretary. In 1901 he became her principal secretary. In 1901 he was appointed secretary to the Prince of Wales, afterwards King George V, and retained the post when the prince became king He retired in 1930, and died on March 31, 1931 In 1911 he was created a peer, but the title became extinct at his death

Stammering Infirmity of speech It manifests itself either in an inability to pronounce certain words

or in a tendency to stumble over some syllables and to repeat others. Its proximate cause is in the larynx and it may be either a defect of childhood or acquired later as the result of shock or nervous trouble. It is curable in all but extreme cases

Stamp (1) Implement designed to make an impression, (2) Label bearing an impression and affixed to envelopes or documents for postal or revenue purposes, (3) Machinery for crushing ores (see STAMP MILL) Its most common use is in respect to the second of these applications See STAMP ACT, STAMP COLLECTING, STAMP DUTIES

Stamp Sir Charles Josiah British econo mist Born June 21, 1880, and educated at London University, he entered the Inland Revenue department of the Civil Service in 1896 becoming assistant secretary to the Board in 1916 After resigning in 1919, he became secretary of Nobel Industries Ltd, director of Imperial Chemical Industries, 1927 28, and chairman of the LMS Rly An expert financier, he sat on the royal commission on income tax, 1919, the Northern Industries are proposed in the commission of the commission on shifter the commission committee 1923 4 Ireland finance arbitration committee, 1923 4, the committee on taxation and national debt, and the Dawes Committee, 1924 He was a and the Dawes Committee, 1924 — He was a member of the court of enquiry into the coal industry 1925, and of the Young Committee on reparations, 1929 — He was created C B E in 1924, G C B in 1935 — He has been awarded many academic honours, and has been president of the Royal Statistical Society and treasurer of the British Association. He is the author of many hooks

Association He is the author of many books on financial subjects, among which are Wealth and Taxable Capacity, Studies in Current Problems in Government and Finance and The

Financial Aftermath of War

Stamp Act Measure requiring all legal documents in the American colonies to bear a revenue stamp Passed by Parliament in 1765, the act was violently opposed in America on the ground that Parlia ment had no right to impose taration unless representation went hand in hand with it. In Jan, 1766, the protest of the colonists was vigorously upheld by Pitt in the House of Commons The repeal of the Stamp Act was then proposed and carried on Feb 21 of that year

Stamp Collecting Collecting of postage stamps Formerly regarded as a schoolboy hobby, this has now risen to the dignity of a quasi scientific pursuit known as philately, for the encourage ment of which numerous societies have been formed, and hundreds of dealers are in business

in all parts of the world

The Royal Philatelic Society and the Junior Philatelic Society have done notable work in detecting forgeries, and in the holding of congresses and exhibitions, their efforts being stimulated by the keen interest in philately of King George V who himself possessed the most complete collection of British and British Francis stamps in axistence. Its chief British Empire stamps in existence Its chief rarity was the blue Mauritius stamps of 1847,

Stamp Duty Form of indirect taxa-under it duties are collected by means of stamps, adhesive or impressed, affixed to legal and other doon ments by which property is transferred or other

purchased in 1904 for £1450

privileges are secured Among documents requiring to be stamped are insurance policies Among documents bills of exchange, contract notes, patent specifications Stamp duties are administered by the Board of Inland Revenue and vary from the 2d stamp on cheques and receipts for sums of £2 and over to much larger amounts, of which the £10 stamp duty on a grant of arms is an example The stamp duties payable on the issue of capital by a public company or on the sale of a large estate may amount to thousands of pounds

Stamp Will Machine for crushing mine rectangular iron box in the bottom of which are steel dies, and stamps raised by means of cams and falling by gravity. The ore is crushed between the dies and the stamps. The latter are usually five in number and consist of heavy stems with a steel shoe at the bottom. The rectangular box containing the steel dies is fitted with a screen in front and a feed slot at the back. Water flowing through the box carries the crushed ore through the screens, most of which may be varied according to the ore to be dealt with.

to the ore to be dealt with

Standard That which stands The term is used for (1) an established rule or model, (2) a grade of classification in elementary schools, (3) a shrub or tree unsupported by a wall, (4) a staff supporting a flag, also the flag itself. The term is specially applied to the Royal Standard of England and to the standards of certain cavalry regiments. The Royal Standard, hoisted only when the sovereign is present or by viceroys, governors and lieut governors of colonies and territories, bears the royal arms and measures 15 ft by 7½ ft. The standards of the Household Cavalry and Dragoon Guards are of crimson silk damask bearing the badge, devices and mottoes conferred for service in the field. The flag may not fly from a standard after dusk.

Standard Battle of the Battle fought between the English and the Scots, Aug 22, 1138 Stephen and Matlida were fighting for the throne of England, and David I, King of the Scots, invaded England to help Matlida Thurstan, Archbishop of York and the northern barons gathered a force in which there was a great number of priests, and marched to meet the Scots The two armies met at Northallerton, and the English were in a dense array around their standard, the banners of S Peter of York, S John of Beverley and S Wilfred of Ripon The Scots attached but could make little headway against the solid mass opposed to them, and after suffering heavy losses they retreated, leaving a good deal of booty for the English

Standardisation Method adopted to secure uniformity in quality and character of materials and products, also, in relation to manufacturing processes, to obtain efficiency and increased output with economy of expenditure

In science, there are the standards of temperature in the well-known thermometric scales, and calories and other thermal units, also in electricity there are many standards of various kinds. Time, weights and measures are each standardised. In pharmacy, preparations of drugs are also standardised.

Standards Department
Branch of the Board of Trade It is responsible
for seeing that all weights and measures in
use are correct The work was controlled by
the exchequer until 1866 and the office of the
Warden of the Standards existed until 1878
The chief official is now the Deputy Warden

Standard Time Arrangement of dardisation is uniform over a given area. By it the world is theoretically divided into belts and zones of 15°, each representing an hom Within each zone time is uniform, but it changes one hour when the next zone is reached It is used in many parts of the world instead of Greenwich time, which is the same everywhere The United States and Canada have five zones of standard time

Standerton Town of the Transvaal Standerton It is 110 m from Pretoria and 370 from Durban and has a railway junction The Vaal River, here crossed by a bridge, flows past the town It is an agricultural centre where the government owns an experimental farm Pop 3000

Standing Order Rule of procedure Resolutions passed by the House of Commons, the London County Council or other bodies of that kind, and are enforced by the Speaker or chairman

Standish District of Lancashire It is mining centre, with a station on the LMS Rly Here is Standish Hall, the seat of the old family of Standish It forms part of the urban district of Standish and Langtree Pop (1931) 7262

Standish at Duxbury about 1584 he served as a soldier in the Netherlands Having joined the Puritans, he went to the new world in the Mayflower, and was one of the founders of the colony of Massachusetts He was chosen leader of the settlers and led them in several fights with the Indians He died at Duxbury, Massachusetts, Oct 3, 1656 In The Courtship of Miles Standish Longfellow tells of an incident in his life

Stane Street Roman road in Surrey and Sussey It ran from Chichester to London and part of its course can be traced Hilaire Belloc has written a book on it

Stanford sir Charles Villiers British Composer Born in Dublin, Sept 30, 1852, he was educated at Cambridge, and studied music in Leipzig and Berlin Organist of Trinity College, Cambridge, and conductor of Cambridge University Musical Society, 1872-93, and of the Loeds Festival, 1901-10, he was appointed Professor of Musical Cambridge University, 1887 He produced at Cambridge University, 1887 He produced several operas in Germany, and conducted concerts on the continent He was the author of numerous songs, trios, quartets, sonatas, symphonies, oratorios, and a large amount of church music He was knighted in 1902 and died March 29, 1924

Stanhope Urban district of Durham
It is situated on the Wear,
25 m from Darlington, on the LNE Illy
The church is an old and interesting building
and the living, one of the richest in England,
has been held by several famous divines
Pop (1931) 1746

Stanhope Lady Hester Lucy English traveller A daughter of the 3rd Earl of Stanhope, she was born March 12, 1776 From 1803 to 1806 she lived with her uncle, William Pitt, and played an important part in political life chiefly through the influence she exercised over the great prime minister In 1810, four years after his death, she went to Syria and made her home on Mt. Lebanon. There she lived the life of an

castern potentate until her death, June 23, 1839 A woman of unusual ability, Lady Hester left some Memoirs

Stanley Urban district of Durham, and is a coal mining centre Pop (1931) and is a coal mining centre

24,458
There is also a village of Stanley in Derby shire, the chief industry of which is coal mining

Stanley Urban district of Yorkshire (WR) It is 3 m from Wake field, on the LNE Rly It is a coal mining centre Pop (1931) 14 570

Stanley Port of Tasmania, situated on the north coast of the island, about 150 m by rail from Launceston Pop

There is another Stanley, the chief town of the Falkland Islands Pop (1931) 1213

Stanley English family Its name is taken from Stanley in Stafford Its name is shire, but the family is now settled in Lanca shire and Cheshire In the 14th century Sir John Stanley became lord of the Isle of Man and his grandson, Thomas, was created a baron In 1456

Thomas s son, Thomas was made Earl of Derby in 1485 for assisting Henry VII to secure the throne this title is still held by the head of the Stanleys, while the barony Stanley of Alderley was created in 1839 for Sir John Thomas Stanley, the descendant of Sir John Stanley, younger brother of Thomas,

Earl of Dorby

Stanley Arthur Penrhyn English eccle
Stanley atterwards Bishop of Norwich, he
was born Deo 12 1815, and was educated
at Rugby and Belliol College, Oxford He
was ordained and for a few years was a
tutor in Oxford In 1851 he went to Canter
bury as a canon, but in 1856 he returned to Oxford as Professor of Ecclesiastical History and canon of Christ Church In 1864 he was appointed Dean of Westminster, where he remained until his death, July 18 1881 He married Lady Augusta Bruce a daughter of the Larl of Elgin

Stanley was a churchman of liberal views a close friend of Queen Victoria, and an ecclesi astical historian His books include, Lectures on the History of the Eastern Church, Memorials of Westminster Abbey and Life and Correspon-

dence of Thomas Arnold

Stanley Sir Henry Morton African ex plorer Originally named John Royland, he was born in Wales June 10 1841 In 1867 he became special correspondent of the New 1 orl Herald, and in 1871 72, under the auspices of that paper and The Daily Telegraph made his famous journey in search of David Livingstone He found him near Tanganyika He returned to Fngland, 1872 but made subsequent trips to Lake Tanganyika Aug. Africa He wrote How I Found Lavingstone, Through the Dark Continent, The Congo and In Darl est Africa as well as other books He died May 10 1904

Stanmore District or Middlesex It Stanmore is 13 m. to the north of London, on the L V S Rly Pop (1931) 3364. Stannaries Dovon This term in Company and Company Stannaries Dovon This term in the Company Soleting to cludes the local laws and customs relating to them In early times tin mines were the property of the sovereign and various special usages and regulations were observed in con nection with their working. There was a There was a

representative Stannaries Parliament which last met in 1752, and a Lord Warden of the Stannaries, and Stannaries Courts still exist.

Staple Place where goods were stored for sale, the goods themselves, and finally, the principal product of a district or country. In the Middle Ages the term was largely used in connection with what was then England's principal commodity, wool, and merchants were enjoined by royal command to carry their wool to certain towns designated staple towns The growth of commerce broke down the system of staples and the word is now used almost exclusively to denote a chief industry or commodity In a special sense it is applied to the thread of a textile fabric

Staple Inn Building and courtyard in Holborn, London, E C For about 400 years, until 1884, it was an inn of chancery The present hall, built in the 16th century, has a fine roof It is occupied by the Institute of Actuaries and the remainder of the building is let ever as effective. of the building is let out as offices

Stapleford Town of Nottinghamshire It is 6 m from Nottinghamshire flows through it The River Erewash flows through it The industries are the manufacture of lace and hostery

Star Heavenly body Distinct from a planet (qv), an enormous number of stars have been charted, and fresh dis-coveries are constantly being made as the power of telescopes increases The aspect of the heavens in regard to stars varies according to the annual motion of the sun one half of the heavens being visible at midnight in June, the heavens being visible at midnight in June, and exactly another half at midnight in December Some stars, called variables, undergo changes of brilliance, and have to be ranked at different times under different magnitudes Stars also vary greatly in colour, the contrast between Sirius and Betelgeuse, for instance, being very marked There are numerous double and binary stars, and in particular parts of the sky there are clusters, such as the Pleiades, Hyades, etc., which are quite distinct from nebulae (qv) The fixity of stars is of great value in regard to time keeping and the measurement of latitude and longitude the Pole star marking the N and S poles very nearly S poles very nearly

In heraldry (qv) stars represent orders of knighthood such as the Garter the Bath and the Thistle The Star of India is itself a separate order War medals, again, are sometimes in the form of stars, the Mons star being a recent

example

Starch Product of photosynthesis A car bohydrate occurring in the cells of plants starch consists of various sized grains whose characters differ according to the type of plant The grains form a reserve material when stored in seeds, tubers and roots Starch is insoluble in cold water but on boiling gelatinises forms a paste, and when boiled with diluted acids is changed into glucose, or by dry heat into dextrine or British gum

Star Chamber English law court It was set up in 1487 by Henry VII to deal with the nobles who were too powerful to be punished by the ordinary courts The chancellor, treasurer the justiciar and other high officials were the judges and it had very extensive powers It was operative under the Tudors and Stuarts, and became very much hated in the time of James I and Charles I, owing to its arbitrary and perhaps unjust procedure.

STATUTE

members met in a room the ceiling of which was decorated with stars

Starfish Class of cchinoderms It is closely allied to the sea-urchins In the Pacific it attains a great size, Asteriac giganica, measuring 2 ft in diameter, while Pycnopodia hehanthorides, about a yard in diameter, has over 20 arms. The common diameter, has over 20 arms The common starfish of our coasts (A rubens) is found at low tide in shallow pools, but its regular haunts are at depths of ten fathoms Suctorial tube feet under each arm enable it to crawl along the sca-floor or up the sides of rocks

Starling Genus of bird (Slarnus) Of the family, Slurmdae, of passerine birds, it is found in all parts of the world except the Australian mainland. The common starling (S vulgarus) is abundant throughout Britain, migrating from district to district in search of food, breeding twice, sometimes thrice, in a season and laying from 4 to 7 pale blue eggs in a rudely built nest. In autumn starlings form flocks in which they fiv about before roosting. They are handsome fly about before roosting. They are handsome birds, brown-black with purple and green reflections, and buff tipped feathers. In confinement they learn to whistle tunes, and even to articulate words

Star of Bethlehem Genus of plant Bulbous-rooted, of the order, Liliaceae, bearing from 6 to 9 large white and rather fragrant flowers, it is a native of France, Germany, Switzerland and other parts of Europe The leaves are grass like with a white stripe The common star of Bethlehem (Ornihogallum umbcllatum) is a garden flower in England, but a yellow-flowered kind is occasionally found in woods and meadows ally found in woods and meadows

Stars and Stripes National flag of the USA Its seven horizontal red and six horizontal white stripes, represent the original 13 secoding states. It has a blue canton emblazoned with 48 stars in 6 rows of 8, representing the 48 states of the union The flag, as originally designed in 1777, had only 13 stars, but the present pattern has been in use since 1819

State Body politic The term is now applied to a body of people under one government, which acts as its agent and governs according to the constitution, which may be either written, e g, as in the U.S. A or unwritten, as, e g, the British constitution. The state is not necessarily coincident with the nation since the latter may include sentimental, and other considerations with which the racial and other considerations with which the state as "the creature of legal enactment" does not concern itself

Staten Island of New York It is at the mouth of the Hudson River, being separated from Manhattan by the Narrows Its area is 70 sq m, and on it is Richmond, one of the boroughs in the city of New York, and several watering places and pleasure resorts, including New Brighton Steamers connect it with New York proper and places in New Jersay

State Rights SCE FEDERALISM.

States General Estates of the name was formerly used in France, Spain and other countries for the precursors of the modern legislatures. They consisted usually of three classes, clergy, nobility and commons, and of the realm

in 1641 The name is due to the fact that the were so called because each class was a state, or estate of the realm

In France they were first called together to advise the king in 1302, the clergy and commons being representative bodies, but they never obtained much power They met, however, from time to time until 1614 They were not called together again till 1789 when their meeting proved the prelude to the French Revolution

The Dutch republic possessed a states general and this is the name of the legislature of the present kingdom of the Netherlands It consists of two houses. One is composed of 50 members elected by the provinces and the other of 100 members elected by the people Women are eligible for election.

Statics Branch of mechanics It treats of bodies and forces at rest or in equilibrium, and is therefore the opposite of dynamics The subject of strains and stresses, so important to the architect, the engineer and the builder, is a branch of statics

Stationer One who deals in writing requisites The Stationers' Company is one of the London livery companies It has a hall in Stationers' Hall Court, Ludgate Hill, and maintains a school for boys at Harringay The company had formerly a monopoly of printing in England and until the law of copyright was altered in 1911 every book published was entered, or registered, at Stationers' Hall

Stationery Office Department of the British Government It was set up in 1782, and Government it was set up in 1782, and supplies stationery to the various public departments. It also publishes and sells blue books and other official publications, among them reports of various kinds, and acts of parliament. The head offices are in Storey's Gate, London, S.W., and there are branches in Edinburgh, Cardiff and Belfast. The wholesale warehouse is Cornwall House, Stamford Street, London, S.E.1. There are retail establishments at. Adastrol. House, Kingsway lishments at Adastral House, Kingsway, London, W C.2, 26 York Street, Manchester, 120 George Street, Edinburgh 1 St Andrew's Circuit, Cardiff, and 15 Donegal Square, West Belfast The printing works are at Harrow

Stations of the Cross

Form of devotion Practised in the Roman Catholic Church, it takes place in Passiontide when 14 pictures of scenes from the passion of Jesus Christ placed on the walls of the church, are used in worship The worshippers pass from one to the other, kneeling and praying before each in turn

Statistics Collection and arrangement of figures, bearing more parcondition of peoples Censuses were taken in ancient times, but statistics only became a regular branch of study in the 17th and 18th centuries. In this country statistics are mostly to be found in blue books, but a statistical section has been attached to the British Association since 1833 and a Statistical Society has existed since 1834

Status Standing possessed by a person the eves of the law, cg the status of an Englishman or the status of a magistrate

Law made by parliament and therefore hinding on all subjects This kind of law, as distinguished tion

Stavanger Town and seaport of Nor Bergen on the Stavanger Fiord The industries include fishing and shipping and there are some manufactures The town has a broadcasting station (240 6 M, 0 5 kW) Pop (1930) 46,780

Stave Term used in music It denotes a given five lines with intervening spaces upon which notes are placed to in dicate their pitch A clef or key is placed upon the stave in order to fix the alphabetical names of the lines and the absolute pitch of the notes In plain song only four lines are used.

Staveley Urban district of Derbyshire It is 4 m from Chesterfield on the L.M.S. and L.N.E. Rlys. The industrial life centres round the coal mines and ironworks Pop (1931) 12,646

Stawell Township of Victoria, Australia 150 m from Adelaide on the main line from Melbourne to Adelaide, it is a rallway junction with gold mines and firestone quarries in the neighbourhood Pop 4400

Stead William Thomas English journal ist Born July 5, 1849 he became in 1880 assistant editor of the Pall Mall Gazette, under John Morley, and then editor, 1883 89 He created a tremendous sensation in 1885 by a series of articles entitled, The Maiden Tribute of Modern Babylon, flercely attacking and exposing procuration. Arising out of his crusade he suffered three months imprisonment. In 1890 he founded the Review of Reviews Another sensational book of his was, If Christ came to Chicago He founded Borderland and devoted himself to spiritualism He went down in the Titanic, April 15, 1912

Steam Water in the form of vapour, especially the gas into which water is changed on boiling Transparent when pure, it becomes visible when condensation begins owing to the formation of minute particles of water While still in contact with the water, steam is said to be saturated, when heated further after all the water has been turned into steam, it is super heated See BOILING POINT

Steam is widely used as a source of power in the steam engine (q v), and also for heating purposes, as a disinfectant and as a fire extinguisher

Steam Engine Engine driven by the expan sive force of steam is used as the means of producing mechanical work. Hero of Alexandria (circa 100 Bc) is credited with discovering the motive power of steam, but it was not until comparatively recent times that a practical engine was invented. In 1698 was not until comparatively recent times that a practical engine was invented In 1698 Savery patented a simple type of steam engine for use in pumping water The invention of the piston and cylinder by Papin in 1690 led to improved engines by Newcomen and Cawley in 1705 but these though more practical, were wasteful in action Watt in 1769 patented a separate condenser, making possible the double acting engine, and these improvements were applied by Trevithick to a locomotive engine a locomotive engine

from moral law, divine law, or common law, is called statute law, and is said to be placed on the statute book. Statutory rules and orders, made by administrative departments under delegated powers, have not the force of a statute unless it is specially given to them by the act of parliament authorising the delegation of a statute of parliament authorising the delegation of a statute of the present day, but the general principle consists the act of parliament authorising the delegation of a statute of the present day, but the general principle consists of a statute of the present day, but the general principle consists of a statute of the present day, but the general principle consists and inverted over an anvil. The standards and inverted over an anvil piston ends in a hammer head or trip, and steam is admitted below the piston to raise the hammer and above it to accelerate the fall

> Stearic Acid Fatty acid present in animal fats Combined with glycerine in the form of a glyceride it occurs also in certain vegetable fats such as shea butter Like the other fatty acids it forms alkall salts which are present in soap Stearlo acid also crystallises from an alcoholio solution in needles or laminae

> Stearin Glycerine of stearic acid Occurring in animal fats it forms the substances of tallow, lard and suet along with glycerides of palmitte and oleic acids refined suet being almost pure stearin The term "stearin" must not be confused with stearine, relative and stearie acids used in Glycerine of stearic acid Occura mixture of palmitic and stearic acids used in making stearine candles

> Steatite Massive form of tale Known sometimes as scapstone, it is usually white, grey, or green in colour, and is greasy to the touch It occurs associated with serpentine in Cornwall, Ireland, and North America Steatite resists heat and therefore is used as a refractory material in furnaces and gas burners, etc

> Steel Compound of iron Containing a variable amount of carbon and usually small amounts of manganese and other metals, it covers a wide range of materials

> The carbon steels, containing less than 2 per cent. of carbon, comprise the mild steels (0 1 to 1 5 per cent carbon), and the tool steels (0 6 to 1 5 per cent carbon). These steels are made by the Bessemer process or by the later open hearth or Siemens Marten process, and the metal produced is tough and greylsh white with great tenacity and tensile strength these characters adapting it to constructional

> Crucible steels, made by melting steel bars in crucibles, possess the highest cutting qualities and are used as tools, drills, and razors. The alloy steels contain minute quantities of such metals as manganese, nickel, tungsten or chromium, and thus increase the hardness and give special properties, as in the rustless steels which contain chromium and sometimes nickel. nickel

> Steel Flora Annie English novelist. Born at Harrow, April 2, 1847, for some time she was school inspectress in the Punjab In collaboration with Sir Richard Temple she wrote, in 1884 Wide Awake Stories, she also made a collection of Punjab folk lore Her best known books include From the Five Rivers, The Potter's Thumb, Red Rovans, On the Face of the Waters, In the Permanent Way and India Through the Ages She died April 12, 1929

> Steel-Mattland Sir Arthur Her-Steel-Mattland Sir Drummond Ramsay English politician Born July 5, 1876, and educated at Rugby and Oxford, he was MP for E Birmingham, 1910 18, Erdington, 1918 29, and was returned for Tamworth in 1929 and 1931 He was Under-Secretary for the Colonies 1915-17, when he

was made a baronet, Joint Under Secretary for Foreign Affairs and Secretary to the Board of Trade, 1917-19, and Minister of Labour 1924-29 He died on March 30, 1935

Steele Sir Richard English essayist and playwright He was born in Dublin in 1672 and educated at Charterhouse and Oxford In 1709 he founded the famous Tailer, it was followed by the Specialor and the Guardian, Addison co operating all Steele filled several public offices and mall Steele filled several public offices, and was also in Parliament for a time His best play is The Conscious Lovers He died Sept 1, 1729 With Addision he shared the credit of raising the moral tone of society in post Restoration London

Steelyard Balance or weighing machine dating from Roman weighing It consisted of a level with unequal arms, in using which a single weight or counterpoise moved along a graduated beam was employed. In a special sense the term was applied to an association of foreign merchants, mostly Germans, who settled in London in the 13th century under the protection, first of charters and later of the Hanseatic League,

but were eventually ousted in 1598

Steen Jan Dutch painter Born in
Leiden in 1626 he brought a wonderful sympathy and sense of humour into his

tul sympathy and sense of humour into his treatment of genre-pictures, His best-known works are "Doctor Visiting a Patient," "Domestic Lite," "Tavern Company," "The Oyster Girl," "Work and Idleness" and "Bad Company" He died Feb 3, 1679

Steenbok S African antelope (Dutch, stone buck) It is under 2 tt high and of a stone colour, rendering it difficult to distinguish in the veldt It has upright horns about 4 in long, and is classified as either Narotragus or Rhaphiceros campestris

Steeplechasing Horse racing over the product of the control other obstacles set up on a regular course. The sport is said to have originated in a race ridden by moonlight in Ireland by a party of cavalry officers who agreed to go straight across country towards a distant steeple. The Liverpool Grand National, the great steeplechasing event of the year, was instituted in 1839 It is held at Aintree in March, the course being

Stefan's Law laid down by J Stefan at Vienna in 1879, it states that the total energy of a body which absorbs all the radiation falling upon it, is proportionate to the fourth power of the temperature of the radiator, becausing the radiator, to be a perfect one

Stefansson Vilhjalmur Canadian ex-b, 1879, in Manitoba, of Icelandic parentage After graduating at the University of Iowa, he tudied theology and anthropology at Har-rard, where he became assistant instructor in anthropology He began his explorations He began his explorations h anthropology He began his explorations with a private archaeological journey to Iceland in 1904, undertaking another for Harvard in 1905 In an arctic exploration, 1908-12, he encountered tribes which had hever seen a white man In 1913-18 he commanded a Canadian arctic exploration, and in 1924 he penetrated to the centre of Australia He is the author of The Friendly Erctic and The Folk Lore of the Eskimos

Stegosaur Prehistoric animal One of the dinosaurs, it attained a length of 30 ft, and was covered with enormous bucklers and spines

Stein Sir Mark Aurel British archaeo-logist Born at Budapest, Nov British archaeo-26, 1862, he was educated there and in Germany He continued his studies in the languages and history of the East in England, and later became naturalised From 1888 to 1899 he was head of the Oriental College at Lahore, and he filled other educational positions in India He began his archaeo-logical researches when at Lahore, and in 1900

led an expedition into Turkestan

During the next 30 years his researches
and excavations in C Asia, Persia and Baluchistan produced magnificent results, revealing the existence in these regions of great Many of his finds are in the British Museum and the museum at Delhi In 1912 he was knighted His books include Ancient Kholan, The Runs of Desert Cathay and the elaborate Serindia In 1932 he was awarded the gold medal of the Royal Asiatic Society While in Tibet he lost his toes by frost-bite

Stella Name used by Sir Philip Sidney
for Lady Penelope Rich and by
Jonathan Swift for Esther Johnson A
steamer of this name was wrecked off the
Casauet Rocks near Alderney on March 30,
1899, when 105 lives were lost

Stellenbosch Town of Cape Pro-sis 31 m from Capetown and was one of the first Dutch settlements in Africa Its univer-sity was founded in 1916 The town is named

after an early governor and his wife Pop (Eur, 1931) 4,407
In the war of 1899-1902 against the Boers, Stellenbosch was used by the British as a base Officers deprived of their commands were sometimes sent there, and so the phrase to be stellenbosched came to be used for generals and others removed for incapacity

Stem In botany that portion of the piant axis which bears leaves and flowers, and is a continuation of the root In herbaceous plants the stem tissues are soft, but in perennial plants it becomes woody and increases in thickness.

Method of printing It In botany that portion of the plant

Stencilling Method of printing consists of cutting letters or designs on a thin plate, usually of metal, laving this stencil over the surface to be printed, and brushing colour into the cutout spaces

Stendhal Name taken by the French novelist, Marie Henri Beyle He was born at Grenoble, Jan 23, 1783, and became a soldier. He saw service in the wars of Napoleon, including the campaign of 1812 After 1815 he lived in Italy until 1821, and he was there as a consul from 1830-41 He died in Paris, March 23, 1842 Beyle wrote three novels and several other books including De l'Amour, Racine et Shakespeare, and one on Italian painting His novels are Armance, Le Rouge et le Noir and La Charireuse de Parme which contains an account of the Battle of Waterloo

In ancient legend the herald of the Greeks during the war Stentor against Troy His voice is said to have been as loud as that of 50 ordinary men

Stephen Christian saint He joined the church at Jerusalem after the death of Jesus Christ, and was one of the seven chosen to look after the poor He was stoned by an angry crowd of his enemies (Acts vi) His day is Dec 26

Stephen King of England. Born in 1104 he was the third son of Stephen, Count of Blois and Adela daughter Born in ! of William I. On the death of Henry I. in 1135, he usurped the crown, the rightful helress being Henry's daughter Matilda (Maud) His reign was marked by frequent internal wars, during one of which Matilda took him prisoner. She was acknowledged as queen, but soon allenated the people and left Fngland, Stephen agreeing to appoint her son Henry as his successor He died in Oct, 1154

Stephen King of Hungary Son of a duke of Hungary, he was born in 977 In 997 he became a Christian and changed his name from Walk to Stephen Crowned as king by the pope in 1000 he married a princess from Bayaria and during his reign of 38 years did much to convert his people to Christianity Fe died in 1038 and in 1083 Stephen is regarded as the was canonised

patron saint of Hungary

patron saint of Hungary

Stephen Sir Lesile English author

Stephen Born in London, March 3, 1829,
he was educated at Eton, King's College,
London, and Cambridge Ordained in 1859,
he renounced his orders in 1875 A great
athlete and mountaineer, he wrote for the
Saturday Review, helped to found the Pall
Mall Gazette and was editor of The Cornhill,
1871 82, when he was made editor of the
Dictionary of National Biography He was
author of The Science of Ethics, An Agnostic's
Apology, The English Utilitarians Hours in a
Library, and several biographies in the English
Men of Letters series He was knighted in
1902 and died Feb 22 1904

Stephenson George English en-

Stephenson George English encastle, June 9, 1781, as fireman at a colliery he studied the steam engine, and in 1817 built his first locomotive for colliery tram roads In 1821 he constructed the Stockton and Darlington Railway, and in 1829 a line from Liverpool to Manchester His "Rocket" did 35 m an hour, an inconceivable speed for those days A network of railways followed Stephenson died Aug 12 1848

Stephenson Robert Son of George Stephenson he was born near Newcastle, Oct 16 1803, and studied for a time at Edin burgh University He assisted his father in the building of the Stockton and Darlington, Liverpool and Manchester, and London and Birmingham railways He built the Britannia Bridge across the Menai Strait, the Victoria Bridge across the St. Lawrence at Montreal two bridges across the Nile and many others He was M P for Whitbr, 1847, died Oct 12, 1859, and was buried in Westminster Abbey

Stepney Metropolitan borough of Lon Bethnal Green E by Poplar, W by the city and Shoreditch and S by the Thames There is a suffragan bishop of Stepney Stepney includes Spitalfields Whitechapel Mile End, St George's in the East Shadwell, Rateliffe, Wappling, and Linghoyse and contains the Wapping and Limchouse, and contains the Tower Mint and S Katherine's, London and Regent's Canal Docks Also the London Hospital and Dr Barnardo s Homes Pop (1931) 225 203

Steppe Vast grass covered plains of Steppe Siberia and the adjacent parts of Asia, where the wandering tribes feed their stock. They resemble the pampas of S

America

Stereoscope Optical instrument by means of which a drawing or picture is made to stand out in relief It consists of two inclined lenses through which are viewed two pictures. The two separate images being blended have the appear ance of solidity

Stereotyping Printing process It is on a metal plate an impression of type or relief blocks first made on a mould or matrix

of plaster or papier maché

Sterility Barrenness in regard to reproduction of the species It occurs in both animals and plants and may be due to organic defects, functional disorder, changed conditions of life or surgical treat ment. Hybrids produced by the pairing of distinct species are usually sterile Many plants which become fertile when pollinated from another of the same species, are sterile when self pollinated, but there are many exceptions exceptions

Sterilisation food, drink, instruments Making surgical and so on, innocuous by the destruction of bacteria or other micro-organisms. In the case of all surgical instruments, boiling in water, and the use of such disinfectants as iodine and carbolic acid, are the means usually employed Milk can be sterilised in various ways, the most effective method being

pastourisation (q v)

The term sterilisation is also used in connection with methods for rendering the unfit incapable of reproducing their kind. It has been introduced by one or two states (e.g., California in the U.S.A. and Alberta in Canada), and has been advocated in Great Britain

Sterling Legal tender of the United Kingdom Its origin is uncertain, but it may come from a silver penny called the storling, because of the figures of starlings on it The term was much used in 1931 when Great Britain abandoned the gold standard The pound sterling, instead of the sovereign of gold, became the standard by which debts overseas were paid. Its value in gold was around 16s 6d.

Sterne Laurence English novelist Born in Clonmel, Ireland Nov 24 1713, of English parentage, he was educated at Hallfax and Cambridge Ordained in 1738, he became prebendary of York and later perpetual curator of Coxwold In 1759 appeared the first two volumes of his novel, and the control of Tristram Shandy, giving the author immediate fame Seven other volumes followed at intervals up to 1767 The Sentimental Journey appeared in 1768 Sterne died in London, March 18, 1768

Stethoscope Instrument used in medical diagnosis for hearing sounds from the lungs heart or other internal orans. In its original form as invented by Laennee it consisted of a wood vulcanite or metal tube with expanded ends, but in its modern form consists of two flexible rubber tubes ending in ear pieces

Stettin Scaport and capital of the Prussian province of Pomerania. It is situated on the Oder 30 m from the Baltic and 84 m by rall from Berlin, of which it is the port There are large shipbuilding vards, engineering works and sugar, coment and other factories Stettin was the seat of a princely dynasty from 1107 to 1637 was ceded to Sweden in 1648 and to Prussia in 1720 Until

1374 Stettin was strongly fortified. The most of Scotland and his descendants held that notable buildings are the great churches of St Peter and St James, the former the oldest in Pomerania The city has a broadcasting station (283 M, 0 5 kW) Pop (1933) 270,747

Stevenage Urban district and market town of Hertfordshire It is 28 m from London, on the LNE Rly The chief building is the old parish church of St Nicholas Pop (1931), 5476

Stevenson Robert. Scottish engineer Born in Glasgow, June 8, 1772 a son of a merchant, he was educated in his native city and at the University of Edinburgh After his father's death his mother married a lighthouse engineer Thomas Smith, who taught young Stevenson his business, and so enabled him to succeed to the position of engineer to the Scottish Lighthouse Board Stevenson built several lighthouses, including one on the Bell Rock, and added to the power and efficiency of the lights He died July 12, 1850

Stevenson's work was carried on by his sons, Thomas and David Many improvements were introduced by Thomas, who was the father of Robert Louis Stevenson He died May 8, 1887, and is described in his son's Memories and Portraits

Robert Louis Scottish Stevenson novelist and man of letters He was born in Edinburgh, Nov 13, 1850 A delicate child he was educated at Edinburgh Academy and Edinburgh University, studied law, and eight years later was called to the Bar He started his literary career with articles in the Cornhill Magazine in 1874, and after travelling on the continent produced An Inland

travelling on the continent produced An Inland
Voyage and Travels with a Donkey in the
Cerennes A spell of literary journalism followed, then travels in America, and marriage
in 1880, with an American, Mrs Osbourne
Returning to Scotland, Stevenson in 1882
wrote Treasure Island, which instantly made
his reputation as a writer of romance for the
young, who also cherish his Child's Garden
of Verses Between 1884 and 1887 he produced soveral stories and plays Kidnapped
and The Strange Case of Dr Jekyll and Ur and The Strange Case of Dr Jekyll and Ir Hyde appeared in 1886 In 1887 he left England for America, and in 1889, after a yachting cruise in the Pacific, settled at Samon on an estate which he called Vailima and from which he sent home Calriona and other fine stories He died Dec 4, 1894, while at work on Weir of Hermiston His Letters were published in 1899

Stevenston Town of Ayrshire It is 1 m inland from the Firth of Clyde and 28 m SW of Glasgow, on the LMS Rly Formerly a cotton and silk-weaving centre it now largely depends on its coal and chemical industries. There nre coal mines and ironworks in the neighbour-hood, also a Nobel factory for explosives

Steward Name now chiefly given to the manager of an estate, attendants on shipboard, managers of provision departments and officials at racemeetings The Lord High Steward, one of meetings The Lord High Steward, one of the great officers of state, was anciently the first officer of the crown in England The office now exists only for use on ceremonial occasions The Lord Steward is an important officer in the Royal Household (qv)

Stewart Name of a great Scottish family, also spelt Stuart About 1100

King David I made a certain Walter steward

office One of them a later Walter, married Marjorie, daughter of Robert Bruce and their narjorie, daughter of Robert Bruce and thair con, Robert, became King of Scotland in 1371. He was the first of the Stewart kings. The royal line became extinct on the male side in 1542 when James V died, but his dau hter, Marry, married Lord Darnley, who was also a Stuart, and their son, James VI, became King of Scotland and then of England. His male descendants miled Sections on the England. descendants ruled Scotland and England until James II was deposed in 1688 After this the Stuarts maintained a claim to the throne until the death of the last male of the family, Henry Benedict, cardinal and Duke of York, July 13, 1807. In the female line the Stewarts are still represented by the family that, until 1918, ruled in Bavaria. See CHARLES I, JACOBITES

Stewart Dugald Scottish philosopher Edinburgh, Nov 22, 1753, he was educated there and in Glasgow. In 1785 he was appointed Professor of Moral Philosophy at Edinburgh He wrote Elements of the Philosophy of the Human Minl, Philosophy and The Philosophy of the Active and Moral Powers He died June 11, 1828

Stewarton Burgh of Ayrshire It is on Annick Water, 54 m. from Kilmarnock and 19 m from Glasgow, on the LMS Rly Spindle-making, carpet-weaving and other textile industries are carried on Important horse and cattle fairs are held Pop (1931) 2749

Stewartry Scottish term formerly applied to a district governed by a steward Appointed by the king, he exercised both civil and criminal jurisdiction The term is now obsolete except in the case of Kirkeudbright which is called the Stewartry

Steyning Town of Sussex. Within Downs, and on the S Rly, it was a Romen settlement, and before the sea receded in the 14th century, an important port Prior to 1832 it was a borough returning two members. It has a fine church chiefly Norman, built on the site of an old Saxon church mentioned in Domesday Book

Stick Insect Family of straight-midae) It is so-called because its body with the wings folded so closely resembles a stick that it often escapes detection when at rest among foliage. It sometimes attains a length of 13 in in the tropics. Only four or five species out of 600 occur in Europe

Stickleback Small acanthopterous fish, i.e., one in which the dorsal fin is replaced by strong spines. The male is highly coloured, especially at maturity, and exhibits extraordinary parental care during the spawning season. It builds a barrel-shaped nest in which eggs and young are housed, and will florely attack fish many sizes larger than itself that approach it.

Stiff Neck Term usually applied to a form of muscular rheumatism There is a congenital variety, and it may be a symptom of spinal disease. The ordinary be a symptom of spinal disease kind may be treated by rubbing with stimu-lating liniments and wrapping up the neck in wool or flannel Wry-neck or torticollis is a twisting of the neck to one side, and may date from birth A spasmodic form sometimes occurs in middle age characterised by intermittent spasms of the muscles on one side which forcibly draw the shoulder up and the

back of the head down The treatment of this should be in medical hands

Stigand Archbishop of Canterbury He printed by Canute to a church at Ashington (Assandun), Essex built by the king in components, as built by the king in components, as built by the king in components. memoration of his victory there Made Bishop of Elmham in 1038, and of Winchester in 1047 he acted as Edward the Confessor's intermediary in his quarrel with Earl Godwin Appointed, uncanonically, Archbishop of Can terbury, he was excommunicated by five successive popes. He trafficked in church preferments, and deprived of his see died at Winchester, Feb 22, 1072

Stigma Botanical term for the top of the style surmounting the ovary in a flower Usually it is swollen and covered with glandular papillae or hairs, and forms the receptive surface for the pollen grains which are brought by the wind, insects and other agencies in the process of pollination

Stigmata (Greek, stigma, a puncture)
Name applied by Roman
Catholic writers to body marks believed to
represent the wounds inflicted on our Lord at His crucifixion These marks are supposed to be the result of prolonged contemplation of the Passion and to denote special divine favour The most famous case is that of S Francis of Assist, but two or three hundred other instances are recorded.

Still Life Art term. It is applied to drawings and paintings of immobile objects such as fruits, vases drapery, fish, game and so on Subjects of this character first appear in later Greek and Roman art The Du Dutch school excelled in paintings of

Stilt wading bird (Himaniopus) of the Stilt snipe family It is so-called from the length of its legs which is almost equal to that of its body The wings and bill are also long H candidus breeds in Holland and 8 Europe, but only pays occasional summer visits to England The bird is usually black and white, but New Zealand has a pure black stilt

Stilton Village of Huntingdonshire It is 6 m SW of Peterborough, and on the old mall coach route to London Makers of the cheeses peculiar to the sur rounding districts used to put them on the coach at Stilton, which thus gave its name to the commodity

Stimson man Born in New York City Sept. 21, 1867, he was educated at Yale and Harvard Universities and started to practise law at the Bar of New York City in 1891 He was United States attorney for Southern New York State, 1906 09, and in 1910 was Re publican nominee for the governorship of New York State, but was defeated He was Secretary for War 1911 13 and served in the army during the Great War From 1927 29 he was Governor General of the Philippine Islands and in March, 1929, was made Secretary of State by President Hoover He was the head of the American delegation to the London Naval Conference

Stinchar River of Ayrshire Rising in the S of the county, it falls into the Firth of Clyde at Ballantrae It is 30 m in length

modified ovipositor provided with a poison gland supplying an acid or alkaline secretion. The sting of a scorpion is the hooked end of the terminal body segment in which lie two poison glands Mosquitoes and fleas do not sting, but puncture the flesh with their modified mouth parts

In plants, a stinging hair of the nettle has a flinty point which readily breaks, setting free the acid sap

Stinkhorn It grows to a height of about 7 in and is surmounted by a conical cap containing an olive green slime, the dis gusting smell of which gives the growth its familiar name

Stinkwood Name given to timbers of several unrelated trees having in common an unpleasant odour S African stinkwood, one of the elm family, is as hard as beech and greyish in colour A much harder and darker S African wood is known also as Cape walnut

Stint Genus of small shore birds They bill, and brown and buff streaks from the bill to behind the eye The feathers are grey and brown, with white underneath, and the tail is double forked

Stipendiary Recipient of a stipend or periodical payment. A stipendiary magistrate is one who is paid, as distinct from a justice of the peace who serves voluntarily Stipendiary magistrates serves voluntarily Stipendiary magistrates are appointed by the crown, and must be barristers of at least five years standing They preside over police courts in London, Birmingham and several other cities

Stipple Art term. It is applied to the process of producing an effect by means of dots or small marks with brush, pencil or other appliance. The term is used in drawing, etching, engraving and miniature painting. In tempera painting, owing to the nature of the medium stippling was resorted to to give a high relief, and in the engravings of Bartologzi the process is seen at its heat of Bartolozzi the process is seen at its best.

Stirling Burgh of Scotland, and county town of Stirlingshire It is situated on the Forth 40 m from Edinburgh, on the L M S and L N E Rlys It is full of historical interest, has been a royal burgh since 1100 and was a favourite residence of the Scottish kings The castle, a strongly fortified place, is public property Leather and tweeds are manufactured, also agricultural machinery Pop (1931) 22,593

Stirlingshire County of Scotland It lies in the middle of the country, bordering on the Firth of Forth, and has an area of 466 sq m In the N W it has part of the Grampians, including Ben Parts of Lochs Lomond and Katrine Lomond are in the county It has some coal mining districts, but is mainly agricultural Stock is raised and cereals, especially wheat and oats, are grown. Stirling is the county town, and among other towns are Falkink and Bridge of Allan With Cleakmann. of Allan, With Clackmannan it sends two members to Parliament Pop (1931) 166,447

Stitchwort (or Starwort) Perennial herbaceous plant (Siellaria holostea) common in hedgerows A native of into the Firth of Clyde at Ballantrae It is surope and parts of Asia, it has long angular stems and narrow grass like leaves in pairs.

Sting Sharp pointed hollow spine It is stems and narrow grass like leaves in pairs. The 5 petalled star like white flowers are 1 in, defence or other purposes, and represents a S media is known as the chickweed (q v). Stiver Obsolete Dutch coin worth about word is used to denote an insignificant sum, much in the same way as " a brass farthing"

Small carnivorous (or Ermine) mammal (Mustela crminea) related to the weasel It is widely distributed over northern regions, and common in Britain The total length is about 15 in, of which the black-tipped tail accounts for a third pelt is reddish brown above and whitish be neath In more northern lands it adopts a white winter coat, except for the black tail tip The fur is much valued as ERMINE (q v)

Stock (Matthola) Popular annual and biennial flowering plants of the cruciferous order Ten week stocks, which bloom ten weeks after sowing, should be sown under glass in March and planted out in early May Brompton stock, a perennial variety, is usually treated as a biennial The annual night scented stock (M tristis) has insignificant flowers which give out a delicious fragrance in the evening Virginia

delicious fragrance in the evening Virginia stock is a miniature border plant, 8 or 9 in high, which has blooms of pink, mauve and

Stockade Type of fence or bar or barrier is also used in jungle and wild country to keep out wild beasts or to enclose them when cap tured An effective stockade is made of a double circle of stakes or posts, with earth between In military defence there may be a ditch between the rows

Stockbridge Market town of Hamp-72 m from London and 19 from Southampton, on the S Rlv, and is a favourite resort for

fishermen Pop 880

Stock Exchange buying and selling of securities The London Stock Exchange is in Throgmorton Street, and transacts more business than any other in the world Founded ousness than any other in the world founded in 1773, it opened its present building, since extended, in 1802 The premises and property are owned by a company, administered by mne trustees and managers appointed by the shareholders The business of the "house" is regulated by a committee of thirty shareholders elected appully whose premission is holders elected annually, whose permission is required before securities can be dealt in The income of the Exchange is drawn from the subscriptions of members and their clerks, entrance fees paid by new members, rents and investments New members with three sureties pay a subscription of 100 guineas, and members with two sureties (1 c, a clerk of four rears' service) 50 guineas Entrance fees are 600 guineas for a member with three sureties and 300 guineas with two sureties Clerks authorised to deal pay 50 guineas entrance fee and 100 guineas subscription, and unauthorised clerks, 15 and 30 guineas respectively are about 4000 members

Dealers (or jobbers) and brokers have distinctive functions The jobber, like a wholesale dealer, keeps a stock of securities wholesale dealer, keeps a stock of securities and quotes his buving and selling prices the difference representing his profit Brokers, who represent the public, buv from and sell to the jobber, but may not deal on their own account Purchasers who speculate for a rise are known as "bulls," those speculating for a fall as "bears"

Other stock exchanges are in Manchester, Glasgow and other large cities of Great Britain.

as well as in the Dominions In France the Stock Exchange is called the Bourse In New York it is in Wall Street, by which name it is usually known

THE STOCK EXCHANGE AS A CAREER The usual training is to enter the office of a member at a nominal salary A boy of proved ability has the prospect of becoming a settling room or unauthorised clerk, and may eventually be authorised to deal for his employer. The business of a member demands judgment, foresight and a sound knowledge of industrial and economic conditions

Stock-fish Name given to cod, ling, and cured by drying in the air without salt. split

Stockholm Capital city of Sweden It is beautifully situated on islands at the outlet of Lake Mälar into the Baltic, and is divided into three parts, Staden, the ancient centre, Norrmalm and Södermalm Staden, with old, winding streets, contains the royal palace, the government buildings, the great church of S Nicholas, an old Franciscan church used as the royal burying place, the docks and the business district Normalm, however, is the finest quarter of the city and contains the royal opera house, the museum, statues, gardens and fine streets. The city has statues, gardens and in the seat of the principal a university and is the seat of the principal academies and learned societies. There are academies and learned societies. There are numerous other places of entertainment and learning. The Deer Park is a noteworthy feature Of the industries iron and steel, including engineering and shipbuilding, are the most important, others are porcelain works and factories producing cork, wood, silk and chemicals. A new dock for large ships was completed in 1926. The city has a broadcasting station (436 M, 55 kW). Pop. (1931) 514,333

Stockport County borough chiefly in Cheshire but partly in Lancashire Built on the slopes of a ravine, it is situated on the Mersey, at the point where that river receives the waters of the Tame and the fiver receives the waters of the Tame and the Govt, and is 6 m from Manchester, on the LNE and LMS Rlys, with tramway connection with Manchester Largely a cotton manufacturing centre, the borough has iron foundries, brewerles and hat factories Pop (1931), 125,505

1931), 125,505

Stocks Device for punishing offenders
They consist of two bars of wood
They consist of the feet When between which are holes for the feet When they are locked together the victim is firmly imprisoned Some stocks have also holes for imprisoned Some stocks have also holes for the arms Stocks were much used in England in the 16th and 17th centuries, when the usual punishment for a vagabond was to usual punishment for a vagabond was to put him in the stocks, and they continued in use until the 19th century They were usually placed on the village green, and in some villages are still kept as relics of the past In London. according to John Stow, there were stocks in every ward

Stocksbridge Urban district of York-8 m from Sheffield There are coal mines and associated industries Pop (1931) 9253

Stockton-on-Tees Borough, marscaport of Durham It is 4 m from Middlesbrough and 235 from London, on the LNE Rlv There are machine shops, glass works, iron foundries and shipbuilding yards Races Races are held three times a year 67,724 Pop (1931)

Stockwell District of London To to matters theatrical, and became chairman to managing director of the Colliseum Syndi in the borough of Lamboth, on the tube railway Here is the orphanage founded by C H Spurgeon in 1867

Stoicism Ancient school of philosophy Stoicism Its name is derived from the porch (Stoa) where its founder Zeno (340 270 a c) taught at Athens Later Stoicism had great influence in the Roman world, and its greatest teachers Scnece Epicetus and the Emperor Marcus Aurelius were Romans The leading doctrines of the system may be supported by International Control of the Stoicism Carlotte Control of the Stoicism Carlotte Control of the Stoicism Carlotte summed up in the aphorism. Virtue alone brings happiness.

Stoke Village of Nottinghamshire It is Stoke 4 m from Newark Here, on June 16, 1487 Henry VII defeated an army raised by Lambert Simel, which contained about 2000 German mercengies.

There are many other Stokes in England Stoke d'Abernon on the Wey in Surrey has a church containing the oldest brass in England The village is 3 m from Leatherhead Another Stoke, a village near Hartland, has a church called the Cathedral of North Devon

Stoke-on-Trent County borough and market town of Staffordshire It is 140 m from London, on the L M S Rly It includes Stoke proper, the former boroughs of Burslem, Longton and Hanley, and the former urban districts of Fenton and Tunstall which were all united in 1910 The chief industry is the manufacture of pottory In 1925 Stoke was made a city, and in 1928 its mayor was advanced to the rank of lord mayor Pop (1931) 276 619

Stoke Newington Borough of the don It lies between Islington and Hackney The buildings include the parish church built by Sir Gilbert Scott. Clissold Park is an open space, and here is Abney Park cemetery Park (1931) 51 215 space, and here Pop (1931) 51,215

Stoke Poges Village of Buckingham London on the GW Rly The church of St Giles dates from the 14th contury Its churchyard is famous as having suggested to Thomas Gray who is buried here, his famous Elegy The land near is owned by the National

Stokesay Village of Shropshire It nearest station being a yen Arms on the LMS and GW Right 1s chief attraction is the 13th century castle probably the most perfect extant example of a fortified manor house in England The gatchouse is Elizabethan and there is a most bethan and there is a most

Stokesley Market town of Yorkshire (NR) It stands on the Leven, 16 m from Stockton on Tees, on the

Stole Narrow vestment worn by the clergy It is really a long scarf with ornamental ends such as were worn by the magistrates in Rome as a sign of office It is worn by the priests of the Roman Catholic charges and her many clerky church during mass, and by many clergy of the Church of England at the celebration of the Holy Communion Stoles are of various colours each season of the church's year having its own colour

Stoll Sir Oswald. British theatre and clinema magnate He was born in Melbourne Jan 20 1863 and educated in Liverpool He devoted himself carly in life

cate He controls picture houses in London and the provinces, was knighted in 1919 and is the author of some books on philosophy and

Stomach Muscular bag like expansion of the alimentary canal It is between the ocsophagus and the small intestine and beneath the diaphragm in its passage through the stomach is acted upon by secretions from the gastric glands, the insoluble proteins of meat, etc, being changed into soluble peptones which are absorbed readily into the blood

In cases of poisoning and car given to a stomach pump, or syriry real unrelegation tube is used some, unpleasar and the stomach out the stomach

out the stomach
Stone In geology any he of the el
geology any he of the el
geology any he of the el
geology any he
greyish
by water or the action of he
greyish
greyis

Stone in geology any had greyish and sepecially fragiter 8 Africa and sumstance, such a fe in long, and minerals, such a fe in long, and in the sense the term is applitudely attention in the kidney attention of the kidney attention in the kidney attention of the varies to sonbitipendiary and formation in the kidney attention of the varies also according five years?

Stone English meatice of the varies also according five years?

For instance a stone of the courts is the standard stone is one of 141 other cities. The standard stone is one of 141 other cities. The standard stone is one of 141 other cities. The standard stone is one of 141 other cities. The standard stone is one of 141 other cities. The standard stone is one of 141 other cities. The standard stone is one of 141 other cities. The standard stone is one of 141 other cities. The standard stone is one of 141 other cities. The standard stone is a standard and all marks a mineral standard stone is a standard stone in the politic standard stone is one of 141 other cities. The standard stone is one of 141 other cities. The standard stone is a standard stone in adapting was a standard stone in adapting was a standard stone in adapting standard stone in standard stone i

lands and commons. It is about 5 in in length, we have the black with a brownish tinge on the back and white markings on the neck wings and tail. The breast is orange red and the legs and bill black. The eggs are a bluish grow speckled at one end with reddish brown It nests on the ground among grass or under growth. growth

Stonecrop (Sedum) Name for a number of creeping plants of the order crassulaceae. The stonecrop, common on old walls or roofs of country cottages.

with small thick green leaves and masses of tiny bright yellow flowers, is the biting stone crop, or wall pepper There are eight species native to Great Britain and other cultivated

native to Great Britain and other cultivated varieties are largely grown in rock gardens.

Stonehaven Burgh, seaport and watering place of Kincardineshire, also the county town It is on the E coast, 16 m. from Aberdeen, at the mouth of two small rivers, and is served by the LMS and LNE. Rlys The old town and a harbour for the fishing fleet, and a new quarter with many attractions for visitors Near are the ruins of Dunnottar Castle Pop (1931) 4185

Stonehenge Prelistoric stone circle, the most famous in England It is on Salisbury Plain, about 2 m from Amesbury It consists of an outer and an inner circle of stones In the former 16 of the 30 are still standing The inner circle is less complete Within it are other stones, one of which is called the altar stone, and outside are some isolated stones, one being the slaughtering stone The largest stones are

214 it. high
The stones were brought, it is believed, from Pombrokeshire, and were erected about B o 1700 There are various theories about their purpose, the one most favoured is that they were concerned with the worship of the sun On June 21 many persons visit Stonehenge to see the sun rise over one of the stones Around

are earthworks and barrows

nwoT Stonehouse Town of Lanarkshire It is situated about 4 m N W of Strathaven, on the LMS Rly Coal mining and weaving are important industries Pop 4200

Stoneleigh Village of Warwickshire It is on the Avon, 2 m from Kenilworth Stoneleigh Abbey, the seat of Lord Leigh, occupies the site of a Clstereian house It was built early in the 18th century, but includes some remains of the abbey church It has a valuable collection of participant of the statement of the st Village of Warwickshire of paintings and stands in a large park

Stoneware Hard, glazed form of carthenware usually of a coarse character Stoneware of the finest quality was made first in England at Fulham in 1671, by John Dwight, under a patent from 1671, by John Dwight, under a patent from Charles II Sanitary ware such as drain pipes, sinks, etc., are made of glazed stoneware

Stonyhurst English public school It is 12 m from Blackburn, its station being Whalley on the LMS Rlv It is conducted by the Society of Jesus for Roman Catholies, and has accommodation for about 400 boys The college was founded in 1592 at St Omers, it was moved to Bruges in 1762, and to Liege in 1773 In 1794 the present school was opened in a hall at Stonyhurst presented by Mr Weld of Lulworth

Stony Stratford Market town of Buckinghamshire. It is 2 m from Wolverton and has engineering works and a trade in corn and cattle

Stool-Ball Ancient game formerly played in the N of England, and said to be the predecessor of crieket A stool was placed on the ground, with one player standing before it his opponent tosses a ball at the stool, the former having to hit it away with his hand One point is counted each time the ball is hit A variety of the

ancient game is now occasionally played at camps and fairs in the S of England

Mario Carmichael English Stopes scientist and author Daughter of Henry and Charlotte Carmichael Stopes, and educated at Edinburgh, Munich and London University she first gained distinction for fossil research in Japan She is president of the society for constructive birth control and racial progress, and lecturer in palaco-botany at the universities of Manchester and London, being the first woman to be appointed (1909) to the science staff of Manchester University She has published plays, payelo University She has published plays, novels and works on botany In 1918 she married Humphrey Verdon Roe

Stork Family Family of large wading birds (Ciconsidae) related to the heron Protected in some central European countries Protected in some central European countries, it nests on the house tops, feeding on small mammals, reptiles, insects, etc., and acting somewhat as a scavenger. The white stork (Ciconia alba) attains a length of 40 ins. The long beak and legs are red. The black species (C. nigra), a little smaller, has black plumage except that the lower parts beneath are white. It breeds in N. Europe. Both are migrants, wintering in Africa, the former an occasional visitant to Britain.

Charles Dill (Eroduum cicutarium)

Stork's Bill (Erodium cleutarium)
Herb of the order geraniaceae Related to the crane's bill, its fernlike leaves have deeply cut leaflets growing in pairs rather irregularly along the central rib. The flowers are a bright rosy pink, each rising on a separate slender stem from the flower head, and the seed is pointed and hairy

Stormont Castle and estate of Co
Bellast, it was bought in 1921 for the headquarters of the Government of N Ireland
The castle became the official residence of the
Governor General and in the grounds the
Houses of Parliament and offices for the
administration were built The cost, \$500,000,
was borne by Great Britain
Stornoway Burgh and seaport of
Ross and Cromarty It is 180 m from Oban,
and is a fishing centre with a good harbour.
Lews Castle was presented to the town by
Lord Leverhulme. Pop. (1931), 3771
Storrs He was born Nov 19, 1881, and
educated at Charterhouse and Cambridge He
ontered the Egyptian Ministry of Finance in
1904, and was later Oriental Secretary to the

1904, and was later Oriental Secretary to the British Agency in Egypt In 1917 he was attached to the secretariat of the War Cabinet, and from 1917 to 1920 was Military Governor of Jerusalem, and later Civil Governor of Jerusalem and Judnea From 1926 to 1932 he was Governor of Cyprus He received the CMG. in 1916, knighthood in 1924 and the KCMG in 1929

Stothard Thomas English painter and designer Born in London, Aug 17, 1755, his earliest published efforts were designs and illustrations for Bell's British Poets and the Novchs's Mayacine So popular were these that for many years the leading London publishers competed for his services. He exhibited at the Royal Academy, was made a member in 1794, and in 1813 Academy Librarian He died April 27, 1834 27, 1834

Stour Name of several English rivers.
The most important is in Kent.

1176

It enters the sea by an estuary at Harwich and is 47 m long A tributary of the Avon in Oxfordshire, 20 m long, is another river of this name The fourth Stour rises in Worcester this name The fourth Stour rises in Worcester shire and, having passed by Stourbidge and Ridderminster, Joins the Severn at Stourport. It is 20 m long The longest of the Stours is in Somerset, Dorset and Hampshire It is 55 m long and falls into the Avon at Christ It is church.

Stourbridge Borough and market town of Worcestershire It is on the Stour, 12 m from Birmingham and 144 from London, on the GW Rly Hard ware, fire bricks and glass are manufactured A canal passes the town Pop (1931) 19,903

Stourport River port and urban dis stands at the mouth of the Stour where it joins the Severn It is 14 m. from Worcester and is served by the G W Rly and by a canal Hardware is manufactured Pop (1931) 5949

John English historian and anti social conditions and customs prevailing during the previous six centuries. His labours entitled him to an old age of ease, but his only reward was letters patent from James I authorising him to beg. He died April 8, 1605, and was buried in the Church of St Andrew Undershaft

Stowe Public school in Buckingham ham and was formerly the seat of the Duke of Buckingham, and surrounded by extensive grounds and beautiful gardens The magnifi The magnifi cent house was built by Sir Richard Temple about 1660 and was sold in 1921 In 1923 it was opened as a school for boys, and has accommodation for about 500 bord

Harriet Elizabeth Beecher Stowe of Lyman Beecher, a Presbyterian minister, she was born at Litchfield Conn, June 14, 1811, and married Rev C E Stowe in 1836 1811, and marrieu Rev C E Stowe in 1850 She lived many years near Kentucky, a slave state, and the horrors she saw there led her to write Uncle Tom's Cabin, 1851-52 The anti-slavery feeling this work aroused was partly responsible for the Civil War The book has been dramatised and translated into more than twenty languages into more than twenty languages of Stowe also wrote Sunny Memories of Foreign Lands, and stirred up a great deal of controversy in 1869 by her Lady Byron Vindicated She died July 1 1896

Stowmarket Market town and urban district of Suffolk It is 12 m from Ipswich and 80 from London on the street Cipping and on the LNE Riv Mrs

the river Gipping and on the LNE Rly There is a trade in farm produce, and fertilisers are manufactured The restored church has an organ by Father Smith Pop (1931) 4296

Stow-on-the-Wold Market town and urban district of Gloncestershire It is 20 m from Cheltenham and 89 from London on the Straits Settlements Colony on or GW Rly A place of singular charm, it has near the Malay Peninsula. It includes Singa

It flows from near Hythe, past Ashford and an old church and a cross in the large market Canterbury to Pegwell Bay It has an estuary place Fairs are held Pop (1931) 1266 which was protected by eastles in Roman times and later Its length is 40 m

Another Stour divides Suffolk from Essex river Foyle 14 m from Londonderry and river Foyle 14 m from Londonderry and 161 from Dublin, and is reached by railway It has an agricultural trade and other industries. The town has a some chiming and The town has some shipping and a canal connects it with the estuary of the Foyle Pop (1926) 5156

Strabo Greek geographer He was born in Asia Minor about 63 BC He travelled a good deal, but was living in Rome when he died about AD 20

Strabo's Geographica deals with the geography of Europe, Asia and Africa and is of high value The author takes much from earlier writers, but much also is from his personal experience His History, from 146 B C to the death of Julius Caesar, has come

down to us only in fragments
Strachey ist and bio English essaybiographer March 1, 1880 son of Sir Richmond Strachey, the Anglo Indian administrator (1817-1908) he was educated at Trinity College, Cambridge His first book, Landmarks in French Literature, appeared in 1912, and was well received In 1918, with Eminent Victorians, he immediately became famous With his vivid, incisive ately became famous with his vivid, incisive and often caustic language, and his penetrating wit. Strachey created a new style in blographies His other publications were Queen Victoria, 1921, Books and Characters, 1922 Pope, 1925, Elizabeth and Essex, 1928 Portraits in Miniature 1931, and a few essays He died Jan 21, 1932

Stradivarius Antonius maker Italian violin He was born about 1644 at Cremona, where he raised the art of violin making to its highest perfection A pupil of Nicolas Amati, he improved on his master s work by modifying and beautifying the designs, and especially by using a wonderful varnish, the secret of which has been lost. His instruments which are all known by name, such as "la Pucelle" "Vieuxtemps" and "the Cessot," to day command enormous prices He also made excellent violas and cellos He died Dec 18, 1737

Strafford Thomas Wentworth, Earl of English statesman, He was born in London, April 13, 1593, eldest son of Sir William Wentworth, and educated at Cambridge After supporting the Petition of Right in 1628 he transferred his sympathies to the side of Charles I (qv), becoming one of his chief advisers Created viscount in 1628 and earl in 1639, he was appointed Lord Deputy of Ireland in 1632 He changed the country from anarchy to order and prosperity Acoused by the Long Parliament of high treason during the Scottish Reb-Ilion of 1640, he was beheaded in the Tower. May 12, 1641 He was in the Tower, May 12, 1641

Strain and Stress in mechanics to the condition of a body, either solid or liquid, when its form or volume undergoes a change (strain) by the action of a system of forces known as a stress These forces always act in a pulling or pushing direction. In a shearing stress the force of compression is met by an elongation at right angles, and the rigidity of a solid is the resistance offered to this stress

Straits Settlements British crown on or

pore (with the Cocos Islands and Christmas Islands), Penang (with Wellesley and the Dindings), Malacca, and Labuan It is administered by a governor aided by executive The Pennson They have and legislative councils areas are connected by railway They have rich soil with a hot wet climate and export tin, rubber, copra, spices, sago, pine apples, Christmas Island is an important source of phosphate S and the capital (1931) 1,113,992 Singapore is the chief port

Strand Word meaning the edge of the particularly of the street in London that was once the strand of the Thames It runs from once the strand of the Thames It runs from Temple Bar, where it is a continuation of Fleet Street, to Charing Cross In it are Somerset House, King's College, the Royal Courts of Justice, Australia House, Bush House, the Savoy Hotel, several theatres and two churches, St Clement Danes and St Mary le Strand both on iclands in the street. le Strand, both on islands in the street

Strang William British painter, en-graver and etcher Born in Dumbarton, Feb 13, 1859, he went to London in 1875, studying for six years under Legros at the Slade School He was one of the original members of the Royal Society of Painter-Etchers Hardy and Kipling were among the subjects of his many portrait-etchings His subjects of his many portrait-etchings collected etchings number over 700 Among his notable engravings are "St Jerome," "A Woman Washing her Feet" and "The Bachelor's End" He was elected RA (engraving) in 1921, and died April 12, 1921 Among

Strangford Lough or inlet on the east coast of Northern Ireland. It enters County Down for about 20 m, outling off the Ards Peninsula from the rest of the country At its entrance and facing each other are the little towns of Strangford and Porteform and Portaferry

and Portaterry

The Irish title of Viscount Strangford was borne by the family of Smythe from 1625 to 1869, when it became extinct Its most notable holders were Percy, the 6th viscount (1780-1855) who was a diplomat, and his son, George, the 7th viscount (1818-57) who was an MP, 1841-52. He was a member of the Young England Party and is described in Coningsby

Strangles Disease of horses, especially young ones It is a form of fever The symptoms are coughing, swelling of the glands and a discharge from the nose

Stranraer Burgh and scaport of Wig-Judiliaci townshire It is 59 m from Ayr and 103 from Edinburgh, on the LMS Rly There are ruins of a 10th century castle Stranraer has a good harbour on Loch Ryan, and there is a regular service of boats to Belfast and Larne Pop (1931) 6420

Strasbourg Capital of Alsace-Lorraine It is situated on the Ill, at its junction with the Breusch, and is an historic city of much antiquarian interest Chief among its ancient buildings is the Gothic cathedral and there is a university, founded in 1567

Manufactures are beer, locomotives, leather, etc, and there is an extensive printing industry A famous table delicacy, pate de fois gras, is prepared here Since the Great War Strasbourg has become an important port. The city has changed hands several times since it was cap-tured by the Germans in the 10th century France lost it to Germany in 1870 after a

severe slege, and it was restored to France after the Great War in 1919 It has a broadcasting station (345 M, 115 kW) Pop (1931) 181,465

Strategy art of military, naval and The

word is generally used to denote the conduct of a campaign as a whole See Thornes

Stratford District of London, part of the borough of West Ham It is on the Lea, 4 m. from the city, and is an important junction on the L N E Rly There are railway shops, chemical works, breweries, furniture making and many other industries. Thornton Eields is an athletic industries Thornton Fields is an athletic ground Across the Lea is Bow, hence the Stratford-atte-Bowe of Chaucer's day

Stratford City of Ontario It stands on the river Avon, 88 m from Toronto The CN Rly has repairing shops here There are some manufactures Pop (1931) 17,742

Stratford-on-Avon Borough and market town of Warwickshire It is 24 m. from Birmingham and 103 from London, by the GW Rly, it also has a station on the LMS Rly It is chiefly famous as the birthplace of Shakespeare, and this association attracts many visitors, especially during the annual festival week. Its buildings include the fine church of Holy Trinity with the poet's grave, the house in which he was born, and the guildhall, long used as a grammar school, with its guild long used as a grammar school, with its guild chapel adjacent The town hall dates from the 18th century Other buildings are Harvard House, and some half-timbered houses The museum is in an old house next to the gardens of New Place, once Shakespeare's home The Shakespeare Memorial Theater, when it after a few was convenient after a few was convenient at the same was a few was a serious and the same was a serious and the same was a few was a serious and the same was a serious rebuilt after a fire, was opened in 1932 is a fine bridge across the Avon called Clopton Bridge, and there is a fine fountain in the town Stratford has an agricultural trade, and every Oct the Hop Fair is held here Pop (1931) 11,616

Strathaven Market town of Lanark-shire It stands on the river Avon, 14 m from Glasgow, on the LMS Rly There are ruins of a castle and textiles are manufactured.

Strathcona District of Edmonton, Canada It stands on the Saskatchewan river to the south of Edmonton, with which it was included in 1912 Here is the University of Alberta See Edmonton

Strathcona and Mount Royal Baron Canadian statesman and railway magnate Donald Alexander Smith was born Aug 6, 1820, and emigrating from Scot-land to Canada when 18, entered the service of the Hudson's Bay Co In conjunction with his cousin, George Stephen (later Lord Mountstephen) William Van Horne, Thomas Shaughnessey (later Lord Shaughnessy) and a few other men of vision, he built the Canadian Pacific Railway He was knighted in 1886, other men of vision, he built the Canadian Pacific Railway He was knighted in 1886, made High Commissioner for Canada in London in 1896, and raised to the peerage in 1897 He died Jan, 21, 1914

Strathmore District of Scotland It is for about 100 m through the counties of Perth and Appears

Perth and Angus

The title of Earl of Strathmore and King-horne has been held since, 1677 by the family of Lyon, later Bowes-Lyon Claude George Bowes-Lyon, the 14th earl, was the father

of Elizabeth, who became the wife of the Duke of York. The earl's seat is Glamis Castle and his eldest son is called Lord Glamis.

Strathpeffer Watering place of Ross 5 m. from Dingwall, on the LMS Rly and is an airport It is noted for its medicinal

springs and magnificent scenory
Stratification Term in geology It
is applied to the ar
rangement of sedimentary rocks in beds or strata Derivative rocks such as sandstone, consiomerate clays and shale have been deposited by water under varying conditions which are indicated by the character of the stratification. The strata by lateral pressure may be tilted or folded

Stratum in geology an individual layer or bed in a sedimentary rock, such as a limestone sandstone, shale or coal Strata may be arranged in various ways from horizontal to vertical, the direction of in clination being known as the dlp, or the beds may be folded by lateral pressure.

Lon lving cloud It forms a Stratus borzontal layer of varied thickness Clouds of this character act as heat-screens by day, and at night prevent the loss of heat radiated

from the earth

Strauss Johann. Austrian composer and Born in conductor Vienna, March 14, 1804 and famous for his waltzes, he made his name as the greatest composer of dance music of the day with the Tauberl Walzer, 1820 He formed his own concert band, which at one time contained over 200 performers and toured Europe, being noted for his aviet and offerthe arreduction. for his quiet and effective conducting

died Sept 25, 1849 His son Johann (1825 99) was the composer of the most famous of all waltzes, The Blue

Danube

Strauss at Munich June 11, 1864, he began playing the piano at four and composing at six. His principal works are Elektra, Artadne auf Naxos Don Juan, Tod und Verklärung Tyl Eulenspiegel Don Quixvic, Salome, Also smach Zaralhustra, Der Rosenkavalter, and Helen of Egypt

Stravinsky Igor Fedorovich Russian Composer Born near St Petersburg, Jan 17, 1862 he aroused admiration by his originality and adverse criticism by his departure from all accepted musical canons He first studied law, but on the advice of Rimsky Korsakov, devoted him self to music His first ballet, The Firebird created a sensation by the extreme novelty of its construction Later followed Petrushka Ie Sacré du Printemps Renard, Les Noces I illageoises, Oedipus Rex, and Le Rossignol

(Fragaria)Strawberry Perennial natural order Rosaccae It is valued for its delicious fruit The small, wild strawberry (I Fesca) is a native of Britain, and is one of the species from which the cultivated varieties have originated Although straw corless may be propagated from seed, the usual method is by runners.

Strawberry Hill Suburb of Lon don it is on the Thames 12 m from the city, on the S Hip Here is the villa in which Horace Walpole il cd from 1747 97 with the garden icid out by him

Streamline Term used for a line course taken by a stream of fluid or air Motor-cars built for speed are constructed so the that the surfaces follow stream lines, thus offering a minimum resistance to the air Racing aircraft are streamlined for the same reason

Streatham Suburb of London It is 6 m from the city and has three stations on the S Rly It is also served by tramway and motor omnibuses, and is in the borough of Wandsworth

Streatham Common san open space covering over 60 acres The districts of Streatham Hill

and Streatham Common are new

Streatley Village of Berkshire It is a boating centre on the Thames, 45 m from London, and has a station, Goring and Streatley, on the GW RIV A bridge, built in 1923, unites the two places

3, unites the district of Somerset, 14
Urban district of Somerset, 14
Wildowater, on the Street m from Bridgwater, on the Boots and shoes are made here GW Rly Pop (1931) 4453

Stresemann Gustav German states-Berlin and Leipzig he entered the Reichatag as a National Liberal in 1907 and in 1917 was as a National Liberal in 1907 and in 1917 was leader of his party in 1923 he became Chancellor and held the post of Foreign Minister simultaneously He worked ener getically for peace, and was largely instrumental in bringing about the Locarno Pact in Oct, 1925, and the entrance of Germany into the League of Nations His efforts gained him a Nobel Prize for Peace in 1926 He dled Oct 3, 1929

Strickland Baron. British administrator Gerald Strickland, born in Malta May 24, 1861, son of Capitain Wolter Strickland, was educated at Trinity Baron. British author for Gerald Strickland, Wolter Strickland, was educated at Trinity College, Cambridge, graduating with honours in Law in 1887 Assistant Secretary of Malta, 1888, he was made Chief Secretary, 1889, and was successively Governor of the Leeward Islands, 1902 4, Tasmania, 1904 9, Western Australia, 1909 13 and New South Wales, 1912 17 Since 1927 he has been head of the Ministry and Minister of Justice in Malta, where he came into conflict with the Roman Catholle Church He was made a barron in 1928 Catholic Church He was made a baron in 1928

Stricture Unnatural contraction of a mucous canal, such as the urethra, esophagus or an intestine It is commonly due to inflammation and prompt medical attention is advisable

Strike Combination among employees work in order to rectify a grievance or enforce by trade unions who arrange for distribution of strike pay while the dispute lasts

In the 19th century, with the growth of the industrial system strikes became very fre industrial system series became very frequent. In 1889 there was a prolonged strike of dock labourers in London, in 1893 the coal miners ceased work, and in 1911 the railway men did the same. There were many other than the Carel War and one or two strikes before the Great War and one or two during its progress though others were pre-vented by arbitration. In 1919 there was another strike of rallwaymen in Great Britain, and in 1921 the coal miners struck work as they did again in 1925 In the winter of 1935 36 averted In Australia, where strikes was narrowly In Australia, where strikes were also

very frequent, arbitration was made compulsory, as it was in New Zealand, but the system was not a success In Great Britain strikes have usually been free from serious violence,

have usuany been free from serious violence, but in other countries one or two approximated to civil war, cg, at Pittsburg in 1892, Chlcago in 1894, and Spain in 1934

In 1926 for the first time in England although it had been tried in France and Sweden, there was a general strike, declared by the trade unions to support the coal miners.

The gavernment took prompt steps to extend the coal miners. The government took prompt steps to safe-guard the supply of food and such essential services as samutation and water supply, and in a few days the strike collapsed, although the miners remained out until nearly the end of the year. In 1927 the Trade Disputes Act was passed making a general strike illegal

Strindberg Johan August Born Swedish Strindberg author Born Jan 22, 1849 at Stockholm, the poverty of his early days was possibly responsible for much of the cynicism which later brought him unhappiness His first great drama, Master Orlof, appeared in 1878 The stories published later under the title of Married led to prosecution He was, however, acquitted Two tragic marriages did not tend to give him a more cheerful outlook and one morbid book after another appeared. He wrote altogether 53 plays, many stories and treatises on history,

subjects He died May 14, 1912

Stroke An attack of paralysis The rate at which rowers use their oars and the member of a rowing crew who sets the pace

for the others

Stromboli One of the Lipari Islands Is famous for its volcano which, being continuously, though, as a rule, mildly active, is known as the "lighthouse of the Mediterrancan" The volcano has an altitude of 3038 ft

Stromness Seaport and summer resort of the Orkney Islands It lies in a bay 15 m W S W of Kirkwall and has a good harbour Seaport and summer resort Herring fishing, distilling, ship repairing and rope making are carried on

Strontium Metallic element having the symbol Sr and atomic weight 87 63 Strontium occurs as a sulphate in the mineral celestine and as a carbonate in strontianite It is a hard vellow malleable metal which melts at red heat and oxidises in the air Its compounds are used in pyrotechny, medicine and in the beet sugar industry

Strood District of Kent It is on the Rochester, on the S Rly It consists of two parishes, Strood intra and Strood extra

Stroud Market town and urban district of Gloucestershire, 12 m from Gloucester and 102 from London, by the It stands at the junction of the GW Rly Slade and Frome rivers on a branch of the Thames and Severn Canal and is a noted centre for woollen manufactures. It has numerous cloth mills, iron foundries sawmills, breweries and dye-works. Population 8360

Stroud, New South Wales, 113 m by rly from Sydney, lies near the Copeland Gold Field and has a population of about 1100

Stroud Green Suburb of N Lon-don lying between Highgate and Finsbury Park, on the L.N E

Rlv It belongs to the borough of Hornsey, and is 31 m from King's Cross

Strutt Jededlah English inventor Born Strutt in Blackwell, Derbyshire, July 28 1726, he made a fortune by the invention of a machine for the production of ribbed hose and by planning many devices for improvements in spinning cotton He died May 6, 1797

Strychnine Highly poisonous alkaloid obtained from the seeds of Nux-vomica, St Ignatius' beans and other species of the genus Strychnos It is a white non-odorous crystalline powder, slightly soluble in water, and having an intensely bitter taste

Strychnine salts are more soluble, and its solubility in water is increased by acids. In its poisonous action, it affects the spinal cord, producing convulsions, but when used medicinally is a cardiac and respiratory stimulant and

an aid to weak digestion

Stucco Smooth, hard plaster applied to the walls of buildings, usually those of brick, to imitate masonry or for decorative work. It consists of three or four parts of fine sand mixed with one part of hydraulic

Stud Establishment for horse-breeding.

The place where stallions and brood mares are kept is generally called a stud-furm Pedigrees of thoroughbred horses have been systematically filed since 1791 and are published at intervals in stud-books. There is also a stud-book for pedigree dogs which has been published since 1874 by the English Kennel Club

Studio Room or building used as a work-shop of an artist or photographer In a painter's studio the question of lighting is important, usually the windows have a northern or eastern aspect, as the light is less variable, and the size and height of the windows also have to be considered

Studley Royal Former seat of the Marquess of Ripon About 3 m from Ripon, it is situated in a fine park which also contains Fountains Abbey The grounds were laid out in the 18th century by John Aislable, and include Dutch and Italian gardens

Sturdee Sir Frederick Charles Doveton British admiral Born at Charlton, Kent, June 9, 1859, he entered the navy in 1871 He was made captain, 1899, roar-admiral, 1908, and Admiral of the Fleet, 1921 He early saw service in Egypt and elsewhere. but his name is largely associated with the World War From 1914 to 1915 he was chief of the War Staff, and on Dec 3, 1914, as Commander-in-Chief in the South Atlantic and Pacific he defeated a German squadron off the Falkland Islands He was in command of the 4th battle squadron at the Battle of Jutland and was created a baronet in 1916 From 1918 to 1921 he was Commander in-Chief at the Nore He died on May 7, 1925

Sturgeon Genus of ganoid fishes of the family leipenscridae, order Chondroster The common sturgeon (Acipenser sturno) has a long narrow body and snouted head The skin is provided with five longitudinal rows of bony shields. The length of an adult fish is from 6 ft. to 9 ft. In England the sturgeon is traditionally a royal fish belonging when captured in a river, to the king A larger variety (A huso) attaining 25 ft is found in the Black and Caspian Seas, the roe being made into caviare and the air-bladder into isinglass.

Sturry Village of Kent It is near Canterbury, 731 m from London, on the S Rly Here is a manor house, or court, dating from the 16th century, which is now the junior school of King's School, Canterbury It was at one time the residence of Viscount Milner, whose widow presented it to the school

Stuttgart City of Germany, the capital of the republic of Württem berg Situated about 2 m from the Neckar, 127 m S E of Frankfort and 190 m by rail W N W of Munich, it derives its name from a stud farm of the early counts of Württemberg It has many fine public buildings, including a polytechnic and library with a collection of 7000 Bibles There are also numerous former royal scats and palaces in the neighbourhood ranks, after Leipzig, as a centre of the German book trade Other industries are textiles. book trade Other industries are textiles, broweries, chemicals, planes, checolate and artists' colours The city has a broadcasting station (360 5 M, 60 kW) Pop (1933) 415,028

Stye A small abscess on one of the hair follicles of the eyelid When the soreness is first felt the treatment is to pull out an eyelash at the point of greatest tender ness. If the stye forms in spite of this preventive measure, bathe with warm boracle lotion (made by dissolving one teaspoonful of boracic powder in 1 pint of bolling water) and

apply yellow mercury ointment.

Stylites Simeon Christian saint and ascetic of the 5th century He lived on the top of a pillar 72 ft high and only 4 ft square at the top Here he spent thirty years, preaching to the crowds that gathered around him The fame of his sanctity attracted pilgrims from all parts at the age of 72 He died AD

at the age of 72

Styr River of Galicia, Poland It rises near Brady, flows north past Lutsk and Rafalovka and, after a course of about 250 m, joins the Pripet a little east of Pinsk. Two battles in the Great War were fought on the Styr between the Russians and combined Austro German forces The first, fought in Oct, 1915, after the second Russian with drawal from Lutsk, had no definite result In the second a Russian offensive under Lesh in June July, 1916, was successful, over 12,000 German and Austrian prisoners being captured.

Styria A division of the Austrian republic, formerly an Austrian duchy and crown land Its present area is 6323 sq m over 2300 sq m in the south having been transferred to Yugoslavia after the Great Wer. the Great War Its capital is Graz A moun tainous region and forested over half its area, it has great mineral wealth Large quantities of iron are produced and worked and sait, coal, graphite and zinc are also mined The Styrian Alps stretch to the N E and traverse much of the country The principal peak is the Schreeberg (6810 ft ) Pop (1923) 978,845

Styx In classical mythology the river of hate It was a poisoned stream across which Charon ferried the souls of the departed on their transference to Hades

Suakin Port of the Angle Egyptian Sudan It is situated partly on an islet in the Red Sea and partly on the mainland It formerly had some commercial importance, but has been largely superseded by Port Sudan 36 m distant with which it is connected by rail Suakin was occupied by the British as a strategical point after the Mahdist rising, and several battles were fought in the

It is near neighbourhood The name is a battle honour

neighbourhood The name is a battle honour for several British and Indian regiments

Subaltern Term applied to all com missioned officers in the army below the rank of captain The name is officially recognised by its use in connection with duty notes, a "subaltern of the day" being regularly appointed in regimental orders Subconscious Psychological term for ideas and mental processes present in the mind but of which the processes present in the mind but of which the subject is unaware Such phenomena as loss of memory, dual personality, somnambulism, trance states and some involuntary actions, have been explained in terms of the Sub

have been explained in terms of the Sub-conscious, which should be carefully differential atod from the Unconscious (q v)

Submarine

A vessel which can be navigated on the sea sur-navigated on the sea surface, but is capable of being submerged and of moving under water without outside assistance Its principal weapon is the torpedo, but it has guns for use when on the surface It is also fitted with a lens and mirror system called a periscope which operates through a long tube and enables the occupants to scan the horizon

during a period of submersion

There are various classes of submarines, some of such size and power that they are to all intents and purposes submersible cruisers Others are more nearly destroyers, and as such or capable of sinking the largest warships are capable of sinking the largest warships Five British battleships and five cruisers are known to have been sunk by German sub marines in the Great War, and the damage done by them to British mercantile shipping was almost incalculable

The construction of submarines, more particularly in the matter of machinery for sub-merging and rising to the surface, is necessarily very complicated and they are handled in the British Navy by a separate and specially trained service As a rule sufficient compressed air is carried to enable submersion to be pro-longed for 60 hours The surface speed of a submarine is about 17 knots, the under water speed about 10 knots

Repeated disasters to submarines, as eg the loss of the British submarine M2 in 1931, and opposition to their illegal use in warfare, have led to a movement for their abolition. which is supported by Great Britain.

Subpoena Latin phrese meaning used in English law to denote a process or writ compelling the attendance of a party, more particularly a witness, in a court of law It takes the form of a writ in the name of the approximation inselfing more attendance without sovereign insisting upon attendance without regard to business or other preoccupation If neglected, a fine or committal to prison may follow

Subsidy Literally, a grant in aid (Latin, subsidium, aid) Formerly it was a term applied to parliamentary grants to the Crown, but it is now used chiefly to denote assistance lent either by one Power to another in cash or arms, or by the State to various trades or industries During the Napoleonic Wars Great Britain furnished subsidies to foreign Powers in order to enlist their assistance against the French, and in lator times many against the French, and in later times many against the French, and in later times many Asiatic and African rulers have received subsidies to ensure their friendliness and good behaviour From time to time various British industries, coal mining, dyoing and others have been subsidised Shipping companies carrying mails or supplying auxiliary cruisans have mails or supplying auxiliary cruisers have regular subsidies

Succession Duty In Great Britain a duty payable by persons who inherit real estate, or persons who inherit personal estate under a settlement It is equivalent to the legacy duty, and is at See LEGACY DUTY the same rates

Suck River of the Irish Free State Rising in a lake in Connaught it flows between Co Roscommon and Co Galway until it joins the River Shannon below Ballinasloe It is 60 m in length

Sucker Gardening term applied to a below the ground level. Carefully detached and transplanted it will sometimes serve the same purpose as an ordinary outling.

Sucking Fish Name given to the sucker-disc on its head, and to other fishes which have suckers formed by the union of the ventral fins With these suckers the fish attaches itself to rocks and ships, and sometimes to turtles and sharks About seven species are found in British waters

Sudan Region of North Africa. It includes the Anglo-Egyptian and the French Sudan The rule of Egypt in the former was interrupted in 1882 by the Mahdist revolt, and only after the Battle of Khartum in Sept., 1898, was the country recovered and

Sept. 1898, was the country recovered and placed by a Convention under nominally Anglo-Egyptian, but practically British, administra-Egyptian, but practically British, administra-tion There are 15 provinces governed by British officers of the Egyptian Army, or by British officials of the Sudan Political Service The capital is Khartum The area is about 1,008,100 (1931) sq m Pop 5,605,848 The French Sudan was formed in 1904 from

the territories of Senegambia and the Niger, less the Senegal Protectorate It was given its present name by decree of Dec 4, 1920 Part of Upper Volta was added in 1933 The capital is Bamako The area is about 380,557 sq m Pop (1933) 3,568,825

Sudbury Borough of Suffolk. Situated on the Stour, close to the Essex boundary, it has three old churches and a grammar school originally built in 1491 The principal industries are manufactures of coco-nut matting, bricks, etc. Formerly it was a famous centre of the woollen industry of the Flemings The painter, Gainsborough, was a native Pop (1931) 7007

Sudbury Town of northern Ontario, Canada, 443 m W by N of Montreal It has stations on the CP and CN Rlys It is connected by branch lines with districts containing large deposits of copper and nickel which are smelted on the spot. Pop (1931) 18,518

Sudd Mass of floating vegetation It is sometimes 20 ft thick and so dense as to be able to support the weight of an elephant It occurs on the Upper Nile and completely blocks navigation unless a channel

is cut and kept open is cut and kept open of Gloucestershire. Here Sudeley Village of Gloucestershire Here is Sudeley Castle, built in the 14th century by Thomas Boteler, the Lord Sudeley of a former creation It was subsequently acquired by the fourth husband of Catharine Parr, the widow of Henry VIII Catharine married Lord Thomas Seymour of the Sudeley of Green Lover Very Services. Sudeley, a former lover, very soon after Henry's death in 1547 and died in childbirth at Sudeley Castle the following year It was restored in the 19th century and is still a place of residence

Sudermann Hermann German writer He was born at Matzinken, East Prussia, on Sept 30, 1857, and educated at Tilsit and the universities of Königsberg and Berlin After a short period of journalism, he started writing novels, the best known of which are Im Zwielicht, Frau Sorge, Der Katzenstey, Das Hohelied, Purzeichen While there showed them was a chemistry in these showed keen powers of observation, it is to his plays that he owes his fame Die Ehre, appearing in 1880, secured him instant renown This was increased by several others, renown This was increased by several others, notably by Magda, his masterpiece, in 1892 He died in Berlin, Nov 22, 1928

Suetonius Gaius Suetonius Tranquillus Roman historian and critic

The exact date of his birth, his birthplace and his parentage are unknown, but he was a contemporary of the emperors Domitian, Trajan and Hadrian The younger Pliny, on being appointed proconsul of Bithynia, took Suctonius with him, and subsequently described him to Trajan as the most upright and learned among men He later became private secretary to Hadrian, and, on losing the post, devoted himself to literature, writing the Lives of the first twelve Caesars

Suez Gulf at the northern end of the Red Sea between Egypt and the Sinai Peninsula It is 190 m long and has an average breadth of 30 m At the head of it lies the town of the same name which is connected by railway with Cairo and Port Said, and with Port Ibrahim at the southern entrance to the Suez Canal Pop 40,523

Suez Canal Artificial waterway connecting the Mediterranean and Red Seas Projected by Ferdinand de Lesseps it was started in 1859 and opened on Nov 17, 1869, having cost about £17,000,000 In 1875 Great Britain secured a controlling interest in the canal through the runchess In 1875 Great Britain secured a constant interest in the canal through the purchase by Lord Beaconsfield of the shares of the Khedive of Egypt The investment, apart from political considerations, has been a most profitable one The canal is 90 m long and political considerations, has been a most profitable one The canal is 90 m long and now has a minimum depth of 33 ft, and a minimum width of 198 ft Ships of 27,000 tons with searchlights can navigate the canal in 15 hours

During the Great War the Turks made two determined attempts to reach the canal, in February and March, 1915, but on both occasions were repulsed and finally retreated across the Sinai Peninsula

Suffocation Death by obstruction to respiration caused by any means other than by strangulation It may be due to the closing of air passages by tumours, to the introduction of foreign bodies into the larynx, to pressure on the chest in a crowd, or by falls of earth in tunnels, sandpits, etc. It occurs among children of the poor, owing to the practice of parents sleeping with their infants, which in Germany is illegal

Suffolk County of England, bounded on the east by the North Sea, on the north by Norfolk, on the south by Essex and on the west by Cambridgeshire Its area is 1475 sq m It is divided into two administrative counties, each with its county council The county town is Ipswich Other important places are Lowestoft, Bury St Edmunds, Beccles and Stowmarket Felixstowe and Southwold are favourite watering-places It is Southwold are favourite watering-places It is mainly an agricultural county, but a considerable amount of horse-breeding is carried on and the Suffolk Punch (q v ) is famous East

Suffolk has three Parliamentary divisions, Eye, Lowestoft and Woodbridge West Suffolk has two, Bury St Edmunds and Sudbury

Prior to the Norman Conquest Suffolk was part of East Anglia and exposed to frequent Danish raids Sea fights took place off Lowestott (1665) and Southwold (1671) Pop (1031) 313,567

Suffolk Earls and Dukes of Titles borne by the families of Ufford, Pole, Brandon, Grey and Howard The present The present srandon, Grey and Howard The present earldom dates from 1603, when Thomas Howard, son of the Duke of Norfoll, was created earl In his youth he fought against the Spanish Armada, becoming an admiral in 1509 He was Lord Chamberlain from 1603 1614 Charles Henry George Howard, the present cyrl, was born March 2, 1906, and succeeded his father as 20th earl in 1917 His

succeeded his father as 20th earl in 1917. His full title is Earl of Suffelk and Berkshire Of the Dukes of Suffelk, the most famous were William de la Pole (1396-1450) who served with Henry V in France and was taken prisoner by Joan of Arc in 1429, and Charles Brandon (1484 1545), a favourite of Henry VIII

Suffolk Punch Powerful breed of horses, used chiefly for agricultural purposes and peculiar to Suffolk Its distinguishing characteristics are a round barrel and short legs, the name being possibly a corruption of bunch

Suffragan Ecclesiastical term Strictly speaking all provincial bishops are suffragans as being subordinate to or assistants of the metropolitan The term is now used in England to denote coadjutor or assistant bishops A suffragan is appointed in dioceses which have become inconveniently large for single opiscopal administration There are now over thirty suffragan bishops of the Churches of England and Wales

Suffrage By the Representation of the People (Equal Franchise) Act, 1928, men and women were first put on an equal footing. The following are the conditions under which they can be registered as Parila mentary electors the individual must be 21 reers of age, and have resided for three months in any one constituency or contiguous con stituency in the same Parliamentary borough, or have occupied for business purposes land or memises of £10 annual value for the same period.

The qualifications are now the same for both sexes for the Local Govt franchise

Degree holders are entitled to be registered

for university constituencies

Great extensions of the suffrage have taken place since 1832 when the first Reform Act was passed Other extensions took place in 1869

passed Other extensions took place in room and 1885, and in 1918 women were first admitted to the tranchise (qv)

Sufi1sm A form of mysticism within or emanating from Islam, but in some ways antagonistic to it. It was founded in the 9th century and its followers were called Suffs or "men of wool' from their monkish carb The original object of Suffism was to deliver men from slavery to the passions by destroying the power of the flesh and uniting souls to God by purely spiritual ties. It has flourished chiefly in Persia, and nearly all the great Persian poets, notably Hafiz and Sadi, have been Seashave been Suffs

Sugar Generic term for a group of carbo hydrate food stuffs present in plant tissues and in milk The sugars contain carbon, hydrogen and oxygen, and are sweet crystalline

substances very soluble in water There are two groups the monosaccharoses, having six carbon atoms, include glucose or dextrose found in grape juice and honey, and laevulose also present in honey, the disaccharoses, having twelve carbon atoms, include maltose in malt lactose in milk and sucrose, the sugar of commerce, present in the sap of the sugar cane and the sugar beet the latter now producing a large share of the world's supply of sugar

In Great Britain the beet sugar industry within recent years has been fostered by a state subsidy or bounty The by products of state subsidy or bounty The by products of both the sugar cane and beet industries are of value and include the waste as fuel and cattle food molasses, and the well known spirit, rum

Suggestion The indirect introduc-tion of a thought or im-pulse into the mind of another (Lat sub, under and gerere to carry) A suggestion may be purely casual and innocent but the term is frequently used to denote the act of exercising control over a hypnotised subject by com-municating some belief or impulse by means of words and gestures, sometimes with malevolent intent. Beneficially employed suggestion in the form of faith healing has wrought remarkable cures, and phenomena otherwise inexplicable, have been attributed to it, notably the occurrence of stigmata (q n )

Suicide Act of killing oneself. In English law it is a felony, and was formerly followed by the barbarous practice of burying the deceased at cross roads, with a stake driven the deceased at cross roads, with a stake driven through the body At coroner's inquests a verdict of suicide while temporarily insane is commonly returned where the act has been committed as the result of mental derange ment, felo de se being applied to cases in which obviously sane people have killed themselves obviously sane people have killed themselves Statistics of suicides vary greatly according to contemporary circumstances, epidemics being fairly frequent. Suicides are steadily increasing in Europe and America. In England and Wales there are approximately between 4000 and 5000 suicides every year

Suir River of the Irish Free State Rising in the mountains of Tipperary, it flows past Thurles, Cashel, Clonnel and Carrick until it falls into Waterford harbour Salmon are found in the river, which is about 90 m in length

Sukkur. see Indus

Sulby Village of the Isle of Man It is 20 m from Douglas and is known for the woollen goods which have been made here for a century The industry was estab lished by two Yorkshiremen Sulby Glen is a beauty spot.

Village of Northamptonshire Sulgrave Willage of Northamptonshire With a population of only about 400 it contains the old manor house occupied by the ancestors of George Washing The house was bought by the British ton The nouse was bought by the British Peace Contenery Committee and presented to the Sulgrave Institution (offices, 1 Central Bulldings Westminster, S W 1) which, in 1914 opened it as a museum of Washington relics

Sulina Town, port and naval base of Rumania Situated on the Sulina, one of the lower branches of the Danube, with a fairway to the Black Sca, it is about 120 m NE of Constanza and has a population of about 8000 It was bombarded by the Russians in the Russo Turkish War of 1877 There is a considerable export trade in grain

Sulla Lucius Cornelius Roman commander and dictator Born 138 B C of a patrician family, he became quaestor in 107 under Marius in Africa, and brought about the surrender of Jugurtha In 93, after distinguishing himself greatly in the Teuton Waas (104-101), he was praetor in Cilicia, returning to Rome in 91 after restoring Ariobarzanes to the throne of Cappadocia Coming into political conflict with Marius he was expelled from Rome, but returned at the head of his legions and overthrew the Marian party From 87 to 83 he conducted the Mithridotic War In 82 he became dictator and introduced many reactionary changes Retiring in 79 he indulged in reckless debauchery, dving in 78 B C

Sullivan sir Arthur Seymour English composer Born in London of Irish parentage on May 13, 1842, as a boy he was chorister in the Chapel Royal. He studied music in Leipzig under Moscheles and Reinecke He wrote many popular songs—including The Lost Chord—cantatas, hymns, and other sacred and secular music He is best remembered through his collaboration with Sir W S Gilbert in the composition of light operas, which had, and still have, an enormous vogue, owing to their humorous librettos and tuneful music The favourite ones are Trial by Jury, H MS Punafore, The Prates of Penzance, Iolanthe, The Yeomen of the Guard, Patience, The Mikado and The Gondolvers Sullivan died on Nov 22, 1900

Sullivan John Lawrence American prize-Sullivan fighter Born Oct. 15, 1858, he won the heavyweight championship by defeating Jake Kilrain in 1889, and lost it to James Corbett in 1802 He died Feb 2, 1918

Sully Maximilien de Bethune, Duc de French statesman He was born on Doc 13, 1560 He was famous as the minister and counsellor of Henry IV of France He was a Huguenot, but managed to escape the massacre of S Bartholomew On appointment, his first task was the gigantic one of repairing the ruinous financial condition of the kingdom. In this he had a great measure of success In 1601 he became grand-master of artillery, receiving his dukedom in 1606 After Henry IV's assassination, he was obliged to resign He soon retired from public life, devoting himself to writing his valuable memoirs. He died on Dec 22, 1641

Sulphates salts formed by the action of sulphuric acid upon various bases Most sulphates are soluble in water, but barium sulphate is insoluble in water and acids, and the sulphates of lead, calcium and strontium are only slightly soluble Common examples are Epsom salts, Glauber salts, and gypsum

Sulphonic Acids Name given to a pounds formed by the action of strong sulphuric acid upon benzene (benzene sulphonic acids) or other organic compounds (ethyl and methyl sulphonic acids) These acids play an important part in rendering organic diestuffs soluble in water by the process of sulphonation, a stage in the formation of dyestuff intermediates

Sulphur Non-metallic element having the symbol S, atomic number 16, and atomic weight 32 06 Sulphur is found in the native state as incrustations in volcanic regions, or in crystalline and carthy forms associated with gypsum in clars and marks. The chief natural supplies come from Italy,

Sicily, Spain and the United States Sulphur is obtained also from vat-waste in the Leblanu soda process It is a yellow, crystalline or amorphous, odourless, tasteless solid, insoluble in water and burning with a blue flame at 260° C It is used in the manufacture of gunpowder, rubber and fireworks, also in medicine and the preparation of many compounds

Sulphuric Acid Oil of vitriol It is scale in Great Britain and other countries chiefly from sulphur dioxide This is oxidised by nitrogen peroxide in the presence of water into sulphuric acid, or sulphur dioxide and oxygen are passed over a catalyst to form sulphur trioxide, which is dissolved in water to form the acid. Pure sulphuric acid is a heavy, colourless, oily liquid having a strong affinity for water, and forms sulphates with bases The chemical symbol is H<sub>2</sub>SO<sub>4</sub>

Sultan Arabic, Turkish and Persian word signifying the ruler of a Mohammedan country Formerly the chief holder of the title was the Sultan of Turkey, who used to call himself the Sultan of Sultans Now the most prominent sultans are those of Morocco, Johore and Zanzibar, but the term is also applied to many petty Asiatic and African potentates who are little more than tribal chiefs. Sultana is the name given to wife, mother,

Sultana Kind of raisin It is the result of drying in the sun a small white grape grown chiefly near Symma in Asia Minor Large quantities are exported and the fruit light brown in colour, is freely used in pudding and cake making for which its seedlessness is a recommendation

Sumac (or Sumach) Genus (Rhus) of small trees and shrubs of the natural order Anacardiaceae. It bears small flowers and fruit, and several species have medicinal and other uses, while two are distinctly poisonous. The Venetian Sumac (R cotinus) is often planted as an ernamental shrub. Its twigs and leaves yield the vellow dye known as young fustic. The sumac used in tanning is derived from R. coriaria. The Virginian sumae (R typhina) supplies an astringent and refrigerant. Two poisonous varieties (R toxicodendron and R venenata) are familiarly known as poison ivv and poison elder

Sumaira Island of the Malay Archipelago The Malacca passage separates it from the Malay Peninsula and the Sunda Strait from Java It forms part of the Dutch East Indies and is divided into 8 administrative districts The area is about 178,000 sq m and the population about 7,604,974 A range of mountains rising to heights of 7000-10,000 ft runs along the west coast, and from them the ground slopes to the NE where the soil is fertile and sugar-cane, nce, coffee, pepper tobacco, etc, are freely grown for export The mountains are heavily forested There are close upon a hundred volcances, a dozen still more or less in a state of activity Gold is found and coal is worked The people are mostly Malay Molammedans The chief towns are Padang and Palembang

Sumer Ancient name for southern Babylonia It is commonly, but falsely, identified with the Biblical Shinar, which, however, represented northern Babylonia. Sumer was the cradle of a very ancient but highly-developed civilisation, reaching back to prehistoric times Dynasties post-dating the Flood arose at Kish, Ur, Lagash and Larsa, and important [archaeological remains have been discovered at these cities and at Susa ] The Sumerians, a non Semitic people, were the inventors of a pictorial hieroglyphic writing, which was taken over from them and adapted into cunciform (qv) by the Semitte invaders who built up the Babylonian empire

Summary Jurisdiction

Jurisdiction of a court entitled to try and
pronounce sentence forthwith on offenders
brought before it The typical court of summary jurisdiction is that of the stipendiary
magistrate, but justices of the peace in petty
session have powers of summary jurisdiction
in relation to minor offences. In more serious
cases they can only commit for tiple at serious cases they can only commit for trial at assizes, at quarter sessions, or in the Central Criminal

Court

Summons In English law a document ordering a person to appear in a court of law to answer a charge A sum mons is issued by the magistrates at the request of the police, or a private individual, and must state what is the charge against the person summoned. Other summonses, usually those concerning debts, are issued by the registrars of the county courts. Summonses are issued by the police or by balliffs of the county See WRIT courts

Sun The central body of the solar system around which the planets revolve in their orbits and from which the planets revolve in their orbits and from which their light and heat is derived. The distance of the sun from the earth is about 92,830,000 miles and its diameter is calculated to be 864,000 miles. Its radiating surface or photosphere is finely mottled and in certain positions are to be seen dark sunspots. Above the photosphere is the solar atmosphere whose lower levels are known as the reversing layer Beyond this lies the as the reversing layer Beyond this lies the bright red incandescent chromosphere, and above the chromosphere the extremely tenuous gaseous corona, which extends to an enormous distance and is seen only during a total eclipse of the sun

The study of the absorption bands in the Bolar spectrum has revealed the presence of about fifty of the chemical elements found on the earth In this way helium was first discovered from its occurrence in the solar envelopes

Sun-bathing Exposure of the body to reasons of health. The ultra violet rays of the sun for sun activate the ergosterol (q v) in the skin, which becomes vitamin D, required for bone formation. In addition they increase the power of the blood to destroy microbes and tone up the system generally. Sun hathing tone up the system generally Sun bathing, which is of immense benefit in the treatment of rickets (qv), and lupus (qv), has become fashionable Care should be taken, however, not to allow the skin to become too rapidly sun burnt, and exposure for short periods is desirable at first.

The realisation of the beneficent action of sunlight has stimulated the growth of the Nudist movement—a movement aiming at physical health through the action of sunlight and air on the body, and at psychological well being through the return to nature and the liberation of the mind from sex repression and morbid curiosity Nudist colonies have sprung up widely in Germany and also in Britain and the USA

(or Honey Bear) Small bear (Ursus malayanus) in-Sun Bear

habiting forest regions in the Malay Archi pelago It is timid and inoffensive The fur The fur is short and black, with a lighter patch at the neck. The animal feeds on honey and insects, digging open the mounds of termites and devouring the latter

Sun-Bird Name for birds of the family Nectarinidae Found in tro pical Africa, Asia and Australia, they somewhat resemble the humming birds in small size and the vivid colouration of the males There is a long tall The long slender bill and long tongue are adapted to the diet of insects, nectar of flowers, etc

Sun Bittern South American bird (Eurypyga helias) related to the cranes It frequents the river banks and feeds on insects and fish About 16 in long, it has a long neck and beak, the plumage being banded transversely and mottled with black, white and brown There is another larger species (E major) in Colombia and Central America

Urban district of Middlesex It is 17 m from London, on Sunbury the S Rly On Sunbury Common the Metrothe S Riy On Sundary common and street politan Water Board has reservoirs Near is Kempton Park racecourse Situated on the Thames, Sundary is a boating centre Sunday The first day of the week It is observed by Christians as a day of the sundary sundary is not supported by Christians as a day servoirs Near is Situated on the

of rest and worship in commemoration of the resurrection of Jesus Christ. In the early Church, Jewish Christians continued to observe their Sabbath together with the rest of the Mosaic law, but Paul laid down that the Jewish Sabbath was not binding on Gentiles In AD 321 Constantine enjoined Sunday as a

day of rest
There is an Imperial Alliance for the Defence of Sunday and a Lord's Day Observance Society, both with offices in London

Sunday Closing In Great Britain it is the law that shops and places of amusement must be closed on Sunday, but there are many exceptions Public houses can legally be open at certain hours in England, but not in Wales In Scotland each locality decides the question for itself As regards shops where refreshments and newspapers are sold the law is tacitly broken, and in Jewish quarters Sunday is regarded as the weekly shopping day As regards places of amusement, the law is that no fees can be charged for admission to an entertainment on a Sunday Theatrical per formances, to which admission is by ticket only, are often given on Sunday

In the case of cinema houses the local authorities allow them to open on Sunday pro vided the proceeds are given to charity, although strictly speaking this practice is illegal under an act of 1780 Consequently they are open in some districts for instance the county of London but closed in others. In 1932 a measure was introduced to bring uniformity into the law It was proposed to continue the law as regards theatree but to alter it as regards cinemas In its final form the measure allowed the cinema houses to remain open in those districts in which Sunday opening was already the rule In other districts the local authorities could apply to parliament for permission to open if the inhabitants clearly desired it The opening hours, however, must not exceed five in the day, and the proceeds, as before must be given to charity, except a part set aside for the support of a film institute See SHOP

Sunday School Voluntary agency for the religious training of young people. The origin of the Sunday School in its present form is ascribed to Robert Raikes, who, in 1780, gathered a number of poor children from the streets of Gloucester for instruction by paid teachers. The movement thus started grew with remarkable rapidity and in 1803 the Sunday School Union was started. The pioneer work of G Hamilton Archibald has, within the last 30 years or so, brought about great advances in Sunday School methods.

Sunderland County borough and port of Durham It is situated on the estuary of the Wear, 12 m north of Durham, and comprises Monkwearmouth and Bishopwearmouth, which face each other on opposite sides of the river With a good harbour and ample dock accommodation, the borough has important shipping and ship building interests, as well as manufactures of machinery and chemicals The prosperity of the place is due to its situation on the Durham coalfield, and coal is largely exported S Peter's church, at Monkwearmouth, forms part of a 7th century monastery where S. Bede was educated Pop (1931) 185,870

Sundew (Drosera rotundifolia) Insecmarshy hollows on heath or moorland The leaves form a rosette on the ground radiating on long stalks from the slender root. The margin of the leaf has rows of orimson glandular threads in the rounded end of which a sticky fluid is secreted. This entraps small insects who alight on the leaf and their struggles to liberate themselves irritate the glands which close over the intruders. The leaf margins curve inward imprisoning the insect in a hollow, where it is ultimately absorbed by the plant

Sundial Instrument by which the time shadow thrown by an upright upon a flat surface A simple type of shadow clock appears to have been used in ancient Egypt and a more elaborate sundial was known to other early peoples In its modern form the sundial consists of a plate or dial marked with the hours and their subdivisions, with a metal upright known as a style or gnomon

Sun Fish Genus of large bony fishes Globe-fishes. The body is short, deep and compressed, with a very short tail, giving the fish a somewhat disk shaped outline O mola, sometimes met with in British waters, is 7 to 8 ft in length. It is widely distributed

Sunflower Annual and perennial plant, nositae Sunflowers are of very vigorous frowth with erect stems which attain a height of several feet, the flowers being of a brilliant yellow The perennial varieties spread rapidly, the roots running underground in every direction. The size of the flowers varies from comparatively small blooms, to the giant cottage garden variety, an annual easily grown from seed sown in spring.

from seed sown in spring

Sun1um Rocky promontory on the southern extremity of Attica.

It was fortified in 413 B c against the Spartans, and there still remain the ruins of a temple to Poseidon, built in the time of Pericles, and used as a landmark for ships It is the modern Cape Colonna

Sunn Hemp Herb (Crotalaria funcea)

The flowers, which grow in sprays, are yellow, and similar to the broom The silvery leaves are long and pointed, covered with fine silky hairs The plant is a native of India, and the fibre of the inner bark is used commercially

Sunni Orthodox Mohammedan believer arose together with others on the death of Mohammed, as he left no authorised successor The Sunnites derive their name from Sunna, a body of traditional teaching, consisting of rules, regulations and legends, which they ascribe to the prophet They regard the Sunna as having equal authority with the Koran Sun Power Term applied to the suggested utilisation of the sun's heat as a mechanical power The direct to the surface is sufficient to

Sun Power Term applied to the sugsun's heat as a mechanical power The direct solar heat on the earth's surface is sufficient to raise the temperature of a water film, one centimetre thick, by two degrees Centigrade per minute A solar engine has been devised for utilising the concentrated solar rays in tropical countries

Sunspot Black irregular area seen on the spots occur near the equator and their diameter often measures many thousands of miles, although they vary much in size They consist of a black central nucleus surrounded by a less dark penumbra Their nature is not definitely known, but one view is that they represent a down rush of cooler gases from the outer atmosphere of the sun Their numbers vary but reach a maximum every eleven years

Sunstone A reddish variety of oligoclase felspar showing a golden sparkle due to the presence of minute scales or spangles of haematite diffused through the mineral

Sunstroke Form of prostration due to excessive heat usually from the sun It is common in tropical countries, where Europeans usually cover the head and neck as a proventive The symptoms include sickness, faintness, headache and dizziness

Treatment—Remove the patient at once to shade and quiet, loosen the clothing and sponge the face and head with cold water, giving cold water to drink if the patient is conscious, and sal volatile The head should be kept up, unlike treatment for fainting, as it is necessary to draw the blood away from the brain

Sun-Worship Ancient cult By many peoples the sun has been regarded as the supreme delty and source of life Agricultural peoples particularly have worshipped the sun, in Persia as Mithras, in Egypt as Ra, in Greece as Apollo, and records of sun-worship have been found in Central and South America, India, Japan and elsewhere

Sun Yat-sen Chinese reformer He was born in 1867 at Hong-San, Kwantung Province, China, and was the son of a Christian convert. He organised the revolutionary party in 1893, and after many desperate attempts, overthrew the Manchu dynasty, which had ruled China nearly 300 years He became first president of the republic In his efforts to establish a democratic form of government and to put China on a new economic foundation, Dr Sun led his Kuomintang party incessantly against reactionaries who had once joined the revolutionaries and subsequently deserted them He died in Peking on March 12, 1925

His most important writings are Plans for National Reconstruction, Fundamentals of

National Reconstruction and The Three Prin ciples of the Pcople

## Superannuation See Pensions

Superheater Apparatus for super heating steam used es pecially for supplying turbines as it gives economy of steam and avoids the corrosive action of water upon pistons and valves In a superheater the steam is heated in passing through straight or looped steel tubes expanded at their ends into headers or tubeplates

Superior Lake of North America. The largest freshwater lake in the world, it covers 31,800 sq m It is 412 m long and divides Canada from the United States Into it flow the waters of 200 rivers and the united mass passes by the St Mary River to Lake Huron and then through the other Great Lakes to the St Lawrence The chief port on the American side is Duluth and on the Canadian side Port Arthur, from these ports ships can pass to the St Lawrence and then Around the lake are vast supplies to Europe of copper, iron and other minerals

Supernaturalism Bellet in a power or power transcending the forces of nature Primitive man probably was devoid of the conception of mechanical causation Hence his belief in the supernatural would arise from a feeling of awe, occasioned by the unfamiliar and startling in occasioned by the untamiliar and starting in natural objects and events. In this emotion is found the raw material of magic as well as religion, which as it rose to higher planes was nungled with gratitude and changed into reverence. Modern thinkers who retain the notion of the supernatural, do so in the conception of a Divine Creator, who maintains the laws that He has made, without inter fering with their operation.

Superphosphate Name given to a fortiliser which is a mixture of calcium hydrogen phosphate and calcium sulphate, prepared by treating phosphorite and bone ash with dilute sulphuric acid The fertiliser value of superphosphate depends upon the amount of soluble phosphate present, and this varies with the source of the material

Superstition Irrational fear of the un known or mysterious This is often expressed in a disposition to ascribe phenomena which admit of natural explanation to occult or supernatural causes Many primitive superstitions beliefs and customs survive in the modern world, e.g., Christmas room decoration is connected with an ancient fertility rite, and belief in the un luckiness of Friday probably arises from a primitive tabu associated with special days

Supreme Council Term used for the council set up by the Allies in Paris in 1919 Its business was to see that the terms of the peace of Versailles were carried out and on it were representatives of Great Britain, France and Italy It ceased to function in about a year Earlier in 1917 18, there was a Supreme War Council This met at Versailles and its business vas to direct the operations against the termans thus establishing a single control

Supreme Court of law in England, the United States and some other countries

Courts of Justice, Strand, London, and although called supreme there are appeals from it to the House of Lords In the United States the Supreme Court, with the Chief Justice as president, hears appeals for the courts of the separate states It sits at Washington and from its decisions there is no appeal. The German republic has a Supreme Court of Appeal that sits at Leipzig

Surbiton Urban district of Surfer, is 12 m from London, on the Thames and is reached by the S Rly A residential district for Londoners it is visited for the beating Pon (1931) 29,396 Urban district of Surrey

for the boating Pop (1931) 29,396

Surd In algebra a quantity which cannot be expressed by rational numbers

The fifth root of 243 is a surd, as it can only be

expressed as  $\sqrt{3}$ Surety Person who guarantees something, usually money, for another person A person charged with a serious offence will only be released, pending his trial, if he finds sureties that he will appear sureties usually bind themselves to pay a certain sum of money, fixed by the magistrates or judge if the accused fails to appear GUARANTEE

Surface Tension Term used in physics for the co hesive force between the particles of a liquid, apparent as a tension in the surface film Common demonstrations of this property are capillarity (q v), the movement of camphor on water and the spherical shape assumed by small drops of liquids and by soap bubbles.

Name used for a medical man Surgeon who specialises in operations
He goes through the same course of training as any other medical student but usually includes in his degrees fellowship of the Royal College of Surgeons This dates from before 1369 but in its present form from 1800 The college has a house at 40 Lincoln's Inn Fields London, W.C., where there is the museum begun by John Hunter There are royal colleges of surgeons also in Edinburgh and Dublin Like the English ones these conduct examinations and give degrees to medical students

Surgery Science of treating disease and accident by cutting and manipulation It originated with the Greeks and the word means, in Greek, hand work It has been a separate study since the days of the Greeks It was revived by the Arabs about 900, but for nearly 1000 years its methods were very crude In the 17th century anatomy was seriously studied in France, England, Italy and elsewhere and the modern period began. The greatest of English surgeons was John Hunter Enormous advances were made in the 19th century, these being rendered possible by the invention of anæsthetics and antiseptics,

followed by that of the X rays

Surinam River of Dutch Guiana, S Surmam America Also another name The river has a course of for the colony itself for the colony itself. The river has a could be about 400 m and flows into the Atlantic Ocean near Paramaribo. It is navigable for small craft for 100 m The colony has an area of 54,291 sq m pop (1931) 155,888

Surplice Outer garment worn by the clergy and choristers during divine service in the Roman Catholic and Anglican churches It is a loose garment of white linen worn over the cassock or other garments. The surplice worn by the clergy is In England the Supreme Court was set up in white linen worn over the cassock or other 1873. It consists of the High Court of Justice garments. The surplice worn by the clergy is and the Court of Appeal. It sits in the Royal longer and fuller in the sleeves than the one

worn by the choristers In the Roman Catholic church the surplice is trimmed with lace In the Church of England its use became general

in the 19th century

Surrey County of England Wholly in-Thames and covers 722 sq m The northern part is included in the county of London and much of it is a residential area for Londoners In the south, where the North Downs cross the some very beautiful scenery county, is Kingston is the county town, other boroughs are Croydon, Wimbledon and Richmond in the London area, Guildford, Reigate and Godelming Other places are Woking, Epsom, Farnham and Dorking and several urban districts of greater London such as Mitcham districts of greater London such as Alitcham and Sutton The chief rivers are the Wey, Mole, Wandle and Eden In the county are Virginia Water, Leith Hill, Box Hill, Waverley Abbey, Runnimede, Gatton and other places of beauty and interest The county is in the dioceses of Southwark and Guildford It sends seven members to Parliament. Pop (1931)

The county has two regiments, the East Surroy and the West Surrey The former, formerly the 31st and 70th Foot, has its depot at Kingston The latter, known also as the Queen's Royal Regiment, is the old 2nd Foot which was raused in 1661 and was called the Lambs. Its depot is at Guildford

Surrogate Deputy or delegate The term is used for the person appointed by a bishop to issue licences for

marriages Surtax Term used in the United Kingdom for the branch of the in come tax called formerly the super tax. It is levied on all incomes, whether earned or unearned, that are in excess of £2000 a year On the first £500 above £2000, is in the £ is a selection and the scale rises putil it is 7s. 6d charged and the scale rises until it is 7s 6d in the £ on all income over £50,000 a year In addition, an additional 10 per cent was levied in 1931, making the highest rate 8s 3d in the £ These rates were in force in 1934-35

The surtax was introduced in 1909 when it was ted in the £ on all incomes in excess of £5000 a year It was greatly increased to meet the expenses of the Great War. The existing scale dates from 1930 In 1935 the surtax produced £51,165,000

Surtees Robert Smith English novelist. Born in 1803, he is famous for the creation of Jorrocks, a sporting Cockney grocer, who made his appearance in a series of grocer, who made his appearance in a series of articles, Jorrocks's Jaunts and Jollites, written between 1832-34 for the New Sporting Magazine, which was founded by Surtees Handley Cross, 1843, is probably the best known of his other works He died March 16, 1864

Surveying The art by which the boundaries and size of an area of the earth's surface are determined for manufactured and the workers.

purposes of map-making and the various requirements of civil and other departments of engineering Surveying has many branches, thus in a topographical survey the contour and principal landmarks of a district are noted, a geological survey shows not only the topo-graphy but also the outcrops of the geological strata and rocks, a mine survey is concerned with all indications relating to mining, and a hydrographic survey deals with a chart of the sen and other large bodies of water, their depths, currents, coasts and other necessary data. The survey of Great Britain is carried out by the Ordnance Survey.

Surveyor Overseer or supervisor, or person designing and superistending the construction of a building. The term is also applied to some one who inspects and examines, to ascertain condition or value, and is also used for a customs officer who ascertains the quality and quantity of imported merchandise

Susa Capital city of Susiana (Elam) The chief residence of Darius I and his successors, it dates from Neolithic times. It has been the scene of much modern excavation. the code of Hammurabi (q v) being discovered there It was, until the 14th century, a flourishing district, famous for silk, sugar cane, and oranges, but is now desolate.

There is also a city of Tunisia on the Gulf of Hammamet of this name

Sussex county of England In the south-1457 sq m and has a constilne of 90 m on the English Channel between Hampshire and Kent. It is crossed by the hills called the Downs and is a district of great beauty. The chief rivers are the Adur, Arun, Cuckmere, Ouse and Rother. The county is agricultural and famous. for its sheep Leves and Chichester are the county towns, but the largest are the watering places on the coast, Brighton and Eastbourne. Others are Hastings, Hove, Worthing, Scaford, Bexhill, Littlehampton and Newhaven as well as Winchelsea and Rye Inland are Horsham, Midhurst, Arundel and Hayward's Heath The county contains Petworth and Goodwood; Battle Abbey and Chanctonbury Ring, Pevensey and Hurstmonceaux. It is divided into two counties, east and west, each with its own county council Six members are sent to Parliament. The county is in the diocese of Chichester Pop (1931) 770,078

There was an Anglo Saxon Kingdom of Sussex from about AD 470-825, when the South Saxons submitted to Wessex

The Sussex regiment, is the 35th and 107th of the line It was raised in 1701 and has been a royal regiment since 1882 The depôt is at Chichester

Sussex Duke of Title borne by the sixth George III He was Augustus Frederick, created duke in 1801. He married Lady Augusta Murray and their children were named d'Este Before his time there had been an earldom of Sussex, held from 1529 to 1641 by the family of Radelysie; from 1644 to 1671 by the family of Savile and from 1717 to 1799 by the family of Yelverton

Sustentation Maintaining or supporting It is chiefly used in the Church of Scotland and other Presbyterian churches These have a sustentation fund from which payments are made to support the ministers of the church The principle is that the richer churches pay more than they receive, and the poorer ones receive more than they pay

Sutcliffe Herbert William English cricketer Born at Summersbridge, near Harrogate, Nov 25, 1894, he first plaved for Yorkshire in 1914 In 1924, having made a great reputation as a batsman, he went to Australia and in the succeeding test matches, to Australia and in the succeeding test materies, down to 1930, with one or two exceptions, he and Hobbs opened the batting for England in a partnership that has become historic. His batting averages in test matches are unique; in 1930 it was 87 2 and he has scored seven centuries against Australia. In 1930 he scored and in each season cines 1930 he 3006 runs, and in each season since 1919 he

Holmes established a record by scoring 555 runs in a first cricket partnership for Yorkshire against Essex, Sutcliffe's score being 313 With the MCC team he went to Australia in 1932 In 1935 he was second to Hammond in the batting averages

Sutherland Duke of Scottish title by the family of Leveson Gower The title of Earl of Sutherland, a very old one, was inherited in 1766 by Ellzabeth Gordon who married George Granville Leveson-Gower in 1803 he became Marquess of Stafford, and in 1833 was created Duke of Sutherland His successor, George, who became the 5th duke in 1913, was a member of the Unionist Government, and took a special interest in the Air Force The duke owns a great deal of land in Sutherlandshire where he has a splendid seat, Dunrobin Castle His London house is now the London Museum

Sutherlandshire County of Scot land It covers 2028 sq m in the far north of the country, with the sea on three sides The coast is very with the sea on three sides The coast is very much indented and to the south is Ross and Cromarty A very mountainous area, it has several peaks over 3000 ft high and a number of loche, Shin being the largest The soil is unfertile, much of it being only suitable for sheep rearing, deer forests and grouse moors Its rivers include the Oykell, Helmsdale and Brora and the county includes many islands Dornoch is the county town, other places are Golspie, Tongue, Lochinver and Bettyhill, all on or near the coast. With Caithness it sends one member to Parliament. Pon (1931) 18, 100 one member to Parliament. Pop (1931) 16,100

Suttee (or Sati) Hindu custom by which the widow of a dead man flings herself on his funeral pyre and is burned The word is derived from the Hindu meaning "virtuous wife"

Sutton Urban district of Surrey It is 13 m from London, on the S Rly, while it is connected with Wimbledon by another line A feature of the town is the long High Street, which is part of one of the main roads to Brighton Since 1927 the urban district has included Cheam Pop 46.488

Sutton Bridge District of Lincoln Nen, near the Wash, 7 m from Wisbech and is a river port and a railway junction. Near is Long Sutton, a town with an old and beautiful church. Pop (1931) 2837

Sutton Coldfield Borough of War It is 8 m from Birmingham and 117 from London, on the LNE and LMS Rlys The grammar school dates from the 16th century Sutton Park is a large and picturesque open space. The industries include the manufacture of hardware, and there is a trade in farm produce Near the town is a moated mansion of the 13th century called New Hall Pop (1931) 29 926

Sutton Courtenay Village of It is 2 m from Abingdon and quite near the Thames There is an old church restored and a 14th century manor house

Sutton-in-Ashfield Urban district Notting hamshire It is 140 m from London and 15 from Nottingham on the LNE and LMS Rlys The industries are coal mining and hosiery making Pop (1931) 25,151

has exceeded 1000 In June, 1932, Sutcliffe and Holmes established a record by scoring 555 Sutton-on-Sea Pleasure resort of Lincolnshire It is 28 m from Boston and 135 from London, on the LNE Rly There are excellent sands

Term applied to the immovable articulations between the bones Suture of the skull and face Usually the edges of the bones are very irregular the projections of one dovetailing into the indentations of the other, giving rise to a zigzag line of union In some, however, the edges overlap forming a squamous suture

Suvla Bay Inlet of the west coast of the Gallipoli Peninsula, where the Gulf of Saros joins the Aegean Sea. On Aug 6, 1916, a British force was landed here as a part of an allied offensive against the Turks It was hoped that this force would be succeed in the large the August 1918 and large the August 1918 and large 191 succeed in taking the Anafarta Hills and link up with the Australian forces on its left. Difficulties of transport and water supply as well as casualties due to dysentery caused the failure of this plan The position was success fully evacuated on Dec 20

Swadlincote Urban district of Derby Swadlincote Shire It is 5 m from Burton-on Trent and 126 from London, on the L M S Rly In the urban district are Stanton and Church Gresley Coal mining is the principal industry Pop (1931) 4302

Swaffham Market town and urban district of Norfolk It is 116 m from London, on the L N E Rly The town Pop (1931) 2783 is an agricultural centre

Swahili Coast people of E Africa.
"the coast" the coast "the coast" the coast "the coast," the name is applied to the Bantu tribes who have become intermixed with others of African and Arab blood in the coastal area from Somaliland to Mozambique The word is also used for their language, now understood over a considerable part of Central and E Africa

Swakopmund Town of SW Africa, at the mouth of the River Swakop, which flows for a length of 240 m Under German rule, Swakop mund was the port of SW Africa, but with its administration as mandated territory, the port of Walvis Bay is beginning to develop There is a good harbour, and whaling and fishing are carried on British, Dutch and German steamers now call at the mail port of Walvis Bay, and Swakopmund has beer permanently closed as a port.

Name of two rivers in England. The Yorkshire Swale rises in the N W of the county, about 4 m from Kirkby Stophen, and passes by Richmond until it reaches the Ure It is 60 m long and the district through which it passes is called Swaledale

The Kentish Swale is a branch of the Medway It divides the island of Sheppey from the main land, is 16 m long and flows from Queen borough to Whitstable

Swallow Migratory passerine insect, vorous bird (Hirundo rustica) of the family Hirundinidae It is allied to the martins (q v), and like them characterised by the short, wide beak, forked tail and long, narrow wings Widely distributed through the Old World, it visits Britain during the summer months, making its nest of mud and grass, straw, etc., in the roofs of barns, out-houses or other buildings The male is steel blue on breast and upper parts, chestnut on throat, and whitish beneath

Swallow-Hole Small cave, which forms the entrance to he underground channel of a stream and is nade by the corroding action of naturally ideliated water These swallow-holes are nostly found in chalky and limestone districts Swallow-Wort Perennial herbarder Asclepadaceae Mostly climbers, they are native to America Some are used medicinally, and the young shoots of others are cooked and aton A tuberosa yields a remedy for pleurisy The blood-flower, A curassavica is used to expel tapeworms

SWan River of W Australia It flows Indian Ocean Fromantle is situated at its mouth and Perth 60 m up the river

Indian Ocean Fremantie is situated at its mouth and Perth 60 m up the river

SWAN Genus (Cyanus) of large aquatic birds, widely distributed Of the family Anatidac, they are related to the geese, etc. The mute swan (Color) one of three species which come to Britain in winter, is the fame swan of our rivers and lakes, having become naturalised in the course of some centuries. It is entirely white, the bill orange with black basal patch and tubercles. The neck is long and curved, the legs short, the body about 54 in long. The young cygnets have greyish brown plumage for the first year.

Swan and electrician Born in Sunderland, 31st Oct, 1828, his name is chiefly associated with electric lighting and photography In 1860 he produced the first carbon electric lamp, a scientific curiosity at the time, but paying the way for Edison's later improvements. He was the first to produce photographic dry plates and bromide printing paper A miner's electric safety lamp, and improvements in the process of electro-plating are likewise owing to his inventive genius. He was knighted in 1904, and died May 27, 1914

Swanage Seaport, pleasure resort and urban district of Dorset. It stands on Swanage Bay, 131 m from London by the S Rly An object of interest is a great globe, a geographical sphere of the world weighing 40 tons Near Swanage are the Tillywhim caves and Corfe Castle Pop 6276

Swan Mussel Fresh water bivalve molluse (Anodonta cygnea) It is common in ponds and rivers, where it rests half-burled in the mud It is 4 to 5 in long The larval form (glochiduum) is parasitic on fish, becoming encysted on the host When metamorphosis is completed the mussel leaves its temporary host.

Swansea County borough of Glamorganshire, Wales It is situated on
the bay of the same name, 45 m W of Cardiff
Tinplate is an important manufacture,
various metals are smelted, and oil is refined
The deep-blue Swansea ware, exquisitely
decorated with paintings of flowers and birds, is
well known There are ruins of a 14th century
castle Important buildings include the
University College, the Royal Institution, and
an art gallery There are many seamon's and
other benevolent institutions Mumbles Head
is a promontory at the western end of Swansea
Bay Pop (1931) 164 825

other benevolent institutions. Mumbles Head is a promontory at the western end of Swansea Bay Pop (1931) 164 825

Swaraj words which together mean "self-mastery" or "self-government" Since about 1920 it has been accepted by the Indian Nationalists to express their aim of self-government for India The desire for Swaraj

was greatly stimulated by the Indian share in the European War There have been in India three parties in the nationalist movement (1) political extremists who virtually bovcotted the Montagu-Chelmsford reforms, (2) a moderate party working with the government in the reforms, but with the same ultimate end in view as (1), and (3) Gandhi and his party whose aim is the strengthening of national character

Swarthmore Borough of Delaware County, Pennsylvania It is the site of Swarthmore College, founded in 1864 by the Society of Friends, and of the Swarthmore Press from which much of the society's literature is issued

Swastika Religious emblem or symbol It consists of a Greek cross with the ends of the arms bent to right angles Sometimes it is enclosed in a circle The swastika originated in India or China and was a mystic symbol amongst the Buddhists, who still use it It is also used by the American Indians In Europe it was used as a decorative figure in the Middle Ages In Germany the Nazi party under Adolf Hitler have adopted the swastika as their symbol To them it stands for Aryanism against Semitism

Swaziland British protectorate of S Africa, enclosed by the Transvaal, Natal, and Portuguese E Africa The western part is high and healthy, but the climate of the lower eastern regions is trying to Europeans Cattle and sheep are raised and wheat and maize are among the crops grown Minerals mined include tin and gold There is a resident commissioner, the ultimate authority being the High Commissioner for S Africa Swaziland is 6704 sq m in area Pop 133,500

Sweat Term applied to the perspiration or exudation of moisture from apparatus acts as a means of regulating the heat of the body as the evaporation of moisture from the skin removes a great amount of bodily heat, especially when the air is hot and dry

Sweating system which began in the early 19th century, and was due to contractors sub-contracting in certain trades, particularly ready-made clothing. It meant that poor people worked long hours for extremely poor pay, usually in their own overcrowded homes, and as it was chiefly temporary work, there was difficulty in getting these workers to band themselves together, and demand better conditions. These, however have been gradually obtained by the establishment of Trade Boards (q v) and by the spread of mass production methods, which has rendered sub-contracting unprofitable. Sweating has now almost ceased to exist in England.

Sweating Sickness Epidemic disease which spread over the greater part of Europe during the 15th and 16th centuries It first appeared in England in 1485 when 20,000 persons died from the disease in London It was characterised by excessive perspiration high temperature, and a severe form of eczema and was usually fatal

Swede (or Swedish Turnip) Large variety of turnip Its leaves are smooth and bluish, and spring from a collar or neck at the top of the root. It is an important root crop, being fed to cattle, and there are several varieties which are cultivated in the kitchen garden See Turnip

Sweden Country of Europe In the north west of the continent it is part of the district called Scandinavia It covers 173,000 sq m and has a long sea coast on the Baltic Its land boundaries are over 1000 m with Norway on the west and a shorter one with Finland The country is hilly in parts but nover mountainous, and the soil is fertile It contains some great lakes, Wener covering over 2000 sq m Stockholm is the capital and the largest Pop (1931) 6,162,146

Sweden is agricultural and produces oats, wheat, rye, etc Cattle and sheep are reared, and the fisheries are of considerable value. It is rich in minerals, especially iron ore, of which a great deal is exported. Its forests afford much timber which is turned into pulp and paper. The manufactures include textiles, machinery, chemicals, clothing and matches Electric power is abundant and well developed.

Sweden is ruled by a king and a dlet, or parliament, of two houses. The upper house consists of 150 members elected by the provinces and towns for eight years. The lower house consists of 230 members elected for four years by universal suffrage. The executive is in the hands of a council of state under a prime minister. The State Church is Lutheran. There is an army roised by compulsory service, a navy and a small air force. The country has a State Bank. The unit of currency is the krona, worth normally 1s. 14d.

Sweden became a kingdom about the 10th century and a little later its inhabitants accepted Christianity it contained two races the Swedes proper and the Goths, but after a time they were united The early kings included S Eric and a conqueror called Birger, and for a time the kingdom was united with Norway In 1307 it came under the same ruler as Denmark and Norway and for over a century there were struggles with its Danish overlords In 1523 Gustavus Vasa succeeded in driving out the Danes, and was himself chosen king this event marking the beginning of modern Sweden

In the 17th century Sweden under Gustavus Adolphus and then under Charles XII, was one of the great powers of Europe, a position due chiefly to military strength Extensive conquests were made but they were not kept, and the rise of Russia deprived Sweden of her dominant position among the Baltie states In 1810 Napoleon secured the choice of his marshal Bernadotte, as heir to the childless king, Charles XIII, and in 1818 Bernadotte became king as Charles XIV He ruled also over Norway which was united with Sweden from 1814 to 1905 In 1907 Gustavus V a descendant of Bernadotte, succeeded his father Oscar II, as king Sweden is a member of the Lergue of Nations The economic depression following the World War was reflected in the great industrial crisis of 1921 2 The temper ance question led to the rise of a coalition government 1926 28 The present Socialist Ministry assumed office in 1931

Swedenborg Emanuel Swedish scientist, philosopher and mystic He was born in Stockholm on Jan 29, 1688 The son of the Bishop of Skara, he was educated at Upsala University subsequently travelling widely Charles XII made him assessor in the College of Mines and he published many scientific works From his 55th year onward he devoted his time solely to spreading the tents of the New Jerusalem Church, of which he was the founder, living

alternately in Stockholm London and Amsterdam He was never married He died in London, Mar 29 1772

Swedish Drill form of physical training also called "free movements' first used in Sweden It is now in use in Britain and other countries in the army, navy police force and in a modified form in schools No apparatus is needed

Sweepstake Form of gambling, in wins the combined subscriptions of the competitors. The commonest form is organised on horse races in which the horses are drawn by lottery the prize money being distributed to the winners according to the placing of the horses in the race. As lotteries sweepstakes are illegal in England but the London Stock Exchange Sweep is organised by means of a "mutual subscription" confined to members of a "private club". The Calcutta Sweepstake

of a "private club" The Calcutta Sweepstake on the Derby is another private sweep, limited to members of the Royal Calcutta Turf Club, but shares in tickets can be obtained through members Sweepstakes on a large scale have recently been organised by the Irish Free State A proportion of the money subscribed is car marked for Irish hospitals and the sums yielded have been substantial It is illegal to sell Irish sweepstake tickets in Britain, and the results of the sweepstake must not be announced in British newspapers

Sweetbread Term commonly used to denote certain glands of

Sweetbread denote certain glands of animals when used for food, notably the pancreas, or stomach sweetbread and the thymus, or breast sweetbread

Sweetbrier (Rosa rubofinosa) Species of rose of shrubby growth with prickly stems and serrated leaves. The small rose pink flowers are single and borne in small sprays, followed by red or orange hips in the autumn The familiar fragrance of the sweetbrier is produced by the exudation of a sticky substance covering the under side of the leaves

Sweet Flag Perennial herbaceous of the order Araceae It grows in marshy places, and has long sword shaped leaves and flowering stem At the end of the latter is the spathe from which arises the spadix with its numerous yellow flowers The aromatic root stock has been used in medicine

Sweet Pea Annual leguminous plant vated for its handsome flowers. The stem is weak and needs some supporting structure to which it can attach itself by its tendrils. The butterfly-like blossoms are borne in clusters of two to four on long stalks, the colours including white and tints of purple marcon, cerise, pink and red Large blossoms and good clusters are obtained by limiting the plant to a single stem

Sweet Potato (or Batata) Peren nial herbaceous plant (Ipomaea batatas) belonging to the order Convolvulaceae It has a long trailing stem and large funnel shaped white and purple flowers. A native of S America, it is grown in many warm countries for its edible tubers, and is cultivated elsewhere as a green house plant

Sweet William Perennial herb (Dlanthus barbatus) of the order Caryophyllareae A popular garden plant, it is treated as a blennial and propagated from seed and by cuttings The flowers are

borne in a cluster at the top of the stem Many varieties have been evolved by horticulturists

in recent years

Insectiverous, gregarious, (Cypselus or Micropusapus) Swift Europe, Asia and Africa, a summer visitant to Britain Sometimes confused with the swallow, to which it bears a superficial likeness, it is 7 in in length with long narrow wings, and forked tail The claws are curved and hook-like, enabling the bird to cling to walls, etc. It is almost continually on the wing during dav-time, and only perches at night. The nest, placed usually under the caves, is made of straw, grass, etc., comented together with saliva. The swift's plumage is sooty black, with a grevish white throat patch

Swift Jonathan English author Born in Dublin of Yorkshire parentage on Nov 30, 1667, he was educated at Trinity College, Dublin The revolution of 1688 drove him to England, where he became secretary to Sir William Temple, under whose roof he met "Stella" (Hester Johnson), and wrote The Tale of a Tub, his most original satire Ordained 1694, and holding Irlsh benefices, he divided his time between Ireland and London, where his gifts as a satirist made him a valuable ally of the Tory party in 1713 he was made Dean of S. Patrick's, Dublin, and from there he wrote the famous Dramer Letters, inveighing against the grant of a patent to William Wood, secured by dublous means, for supplying a copper coinage to Ireland. In 1726 he wrote Gulliver's Travels, a satire on parties and statesmen, now a classic of children's literature

He died on October 19, 1745
Swilly Sea lough, or lake, of Ireland is in Co Donegal and extends about 25 m into the land It is 4 m wide at the entrance and forms a good harbour

Swimming Self-propulsion in water As a pastime it has developed greatly in recent years Competitions for speed, fancy diving, back strokes etc., have figured prominently in the Olympic Games The recognised speed stroke was formerly the trudgeon, but this has been superseded by the America, with such champions as Weissmuller, among men, and Miss Ederle, among women, has generally held the first among women, has generally held the place, but various records have been held by Arne Borg of Sweden, Taris of France and J Medica, USA The Channel has been crossed many times since Webb's pioneer crossed many times since effort, in Aug, 1875

London, April 5, 1837, he passed much of his childhood in Northumberland He was educated at Eton and Oxford, and in early life was intimately associated with Rossettl and William Morris In 1864 appeared his Atalanta in Calydon, considered to be his finest His first volume of Poems and Ballads, work his list of the published in 1866, excited storms of adverse criticism Many of these poems, as well as some of his later works, such as Songs Before Sunrier contain passages which have been considered too erotic, but they show consummate artistry and a wonderful sense of rhythm He also wrote plays critical essays, st and pamphlets He died April 10, 1909 studies,

Swindon Borough and market town of Wilshire It is 77 m from London, on the GW Rh Old Swindon is a market town with a corn exchange Below is New Swindon which grew up after 1840 and railways systems are excenent, and state railways systems are excenent, and railways systems are excenent, and railways systems are excenent, and state railways systems are excenent, and state railways systems are excenent, and railways systems are excented and railways systems are exce

around the works established here by the GWRlv Most of the inhabitants work on the railway, but there is quarrying and an agricultural trade at Old Swindon Coate Reservoir, a large artificial lake near the town, covers 80 acres Pop (1931) 62,407

Swine Fever Three infectious and incurable diseases affecting pigs, having certain characters in common They are of bacterial origin and comprise a form of pneumonia, a septic type of gastroenteritis, and hog-cholora When an outbreak occurs, notification must be made and the animals destroyed

Swinton Market town and urban district of Yorkshire (W.R.) It is on the Don, 10 m from Sheffled, and is a junction on the L.M.S. Riv. It is also a river port. There are some manufactures and around are coal mines Pop (1931) 13,925

District of Lancashire It is Swinton 4 m from Manchester on the LMS Rly, and is part of the urban district of Swinton and Pendlebury It has large engineering works and cotton mills Pop (1931) 32,761

Switchboard Term in electrical engineering for the assembly of switch gear including switches, pressure gauges, ammeters, rheostats and cutouts A switchboard provides the proper isolation and protection of the apparatus, also control of the current, the various appliances being mounted usually on a slate or marble panel in a steel framework

Swithun English saint, also called Swithin Born about 800, he became a priest and tutor to Ethelbert, the future king In 852 he was made Bishop of Winchester and there he died in 862 He was future king Winchester and there he died in 862 He was canonised and is commemorated on July 15 It is a common belief that if it rains on that day it will rain for 40 days afterwards, alter-natively if it is fair, it will continue so The legend is that in 971 the removal of the saint's body to the cathedral was delayed for 40 days owing to heavy rain

Switzerland Country of Europe, lying Switzerland between France and Austria. Italy and Germany It has an area Austria, Italy and Germany it has an area of 15 940 sq m Politically it consists of a confederation of 25 cantons, each with its separate government, and with a Federal Council over the whole German is the language of 19 of these cantons, French of 5, and Italian of one only, Ticino Berne is the federal Balla Austria, Italy and Germany of one only, Ticino Berne is the federal capital, and the largest cities are Zürlch, Bale, Geneva, Lausanne

The country has been called the playground of Europe because of the hosts of visitors who go there for its beautiful scenery and for winter sport. It is also much visited for health reasons, especially by tubercular patients. Thus hotel-keeping may be reckoned as an industry. Besides this, the principal one is agriculture, and especially the production of cheese and condensed milk Manufactures include watches and clocks, chocolate such handicrafts as embroidery and chocolate, and lery and wood carving

Electricity is cheap and easily produced by the many mountain torrents and falls Tram Tram and railways systems are excellent, and the

Sword Offensive weapon It consists of a steel blade with one or two cutting

sword is used for cutting or thrusting or for, both Ancient swords were usually short with a broad pointed blade, but in mediaeval types the sword was long and often cross bilted Two handled swords of considerable length were also used

Sword Dance Scottish Highland dance performed by a single dancer over crossed swords lying on the ground and accompanied on the bagpipes is also a folk dance

Sword Fish Ocean fish of the family Xiphidae of the bony fishes, found in the Atlantic, Pacific and Moditerranean From 3 to 14 ft long, it is fierce and powerful, with a sword like pro longation of the upper jaw which serves as a weapon to transfix the other large fish which form its prev The European species Xiphuas gladius, is seen occasionally in British waters

Swords Town of Co Dublin, Irish Free State It is 8 m from Dublin on the Gt Northern (Ireland) Rly There is a round tower here, as well as ruins of a castle

and an abbey

Sybaris Ancient city of Italy It stood on the west side of the Gulf of Tarentum and was founded by Greek colonists about 720 BC During the next 200 years it was a very wealthy place and its citizens lived in such luxurious fashion that the term sybarite has since been used for a person who surrounds himself with an unusual amount of comfort and luxury

Sycamore Large timber tree (Acer pseudo-platanus) of the order Araceae It has long been naturalised in Britain, and is grown as an ornamental tree in parks The firm, close-grained wood is used for toys, turnery, printing type and furniture. The sycamore grows to a height of 60 ft or more. The large serrated leaves are five lobed. The clusters of drooping greenish flowers appearing in May are succeeded by winged fruit

Sydenham District of London It is about 8 m S of the city, in the borough of Lewisham It is reached by the S Rly, and contains the Crystal Palace on Sydenham Hill

The title of Baron Sydenham was borne, 1840-41, by Charles Edward Poulett Thomson He was President of the Board of Trade 1834-39 except for a few months and Governor General of Canada 1839-41 He died Sept 19 1841, when his title became extinct In 1913 the soldier, Sir George Sydenham Clarke, was made Baron Sydenham He was Governor of Victoria, 1901 04 and of Bombay, 1907-13, and is an authority on imperial defence

Sydney Capital of New South Wales Dullt around Port Jackson it has one of the finest harbours in the world It is connected by rail with Queensland Victoria, its own neighbourhood, and the fertile plains inland of the precipitous Blue Mountains The city proper covers 3211 agrees and is surrounded. proper covers 3244 acres and is surrounded by 40 municipal areas scattered over 180 sq m. around the harbour, the suburbs extending to the ocean beaches

There are some narrow streets but con siderable improvements have been made and many excellent modern buildings exist cluding banks, shops and business offices Notable buildings include Government House, overlooking the harbour, the University and Parliament House There are many parks and open spaces, including the Domain, Hyde

Park, Moore Park, Centennial Park and the Agricultural Show grounds, while around the harbour are numerous reserves

The city is the banking, commercial and shipping centre of the country, in direct communication by steamer with most maritime countries The famous bridge, opened March 19, 1932, provides direct rail and other communication between the city and the northern shore of the harbour, avoiding the previous long detour It has a broadcasting station (31 28 M, 20 kW) Pop (1931) 1,256 230

Sydney City and scaport of Nova Scotia. m from Halifax, and is a terminus of the CN Rly It has a fine large harbour from which coal is shipped There are fron and steel works Steam ferries cross the harbour, and steamers sail regularly to Newfoundland From 1784 to 1820 Sydney was the capital of Cape Breton Island, then separate from Nova Scotia proper Pop (1931) 23,089

Sydney Mines Town of Cape Breton Island, Nova Scotia It stands on the north side of Sydney Harbour, 10 m from North Sydney, on the ON Rly It is a coal mining centre and has blast furnaces.

Sykes Sir Tatton English sportsman He in 1772, educated at Westminster and Oxford, and started life as an attorney's articled clerk In 1803 he took up sheep farming, continuing it with great success for 58 years He is best known in connection with the Turf, as he was one of the largest breeders in the kingdom having upwards of 200 horses and mares in his stud farm He frequently rode his own horses to victory Although he attended only one Derby, he saw 74 St Legers He died March 21, 1863 he saw

Syllogism Argument expressed in contain three and not more than three, propositions, the first two being the premises and the last the conclusion. It contains also three terms, the major, the minor and the middle An example is

All birds are winged creatures Swallows are birds Therefore swallows are winged creatures In this swallows is the major term winged creatures is the minor term and birds is the middle term. The propositions of a syllogism may be either universal or particular, affirmative or negative "All men are liars is a universal affirmative 'No horses are men,' is a universal negative "Some men are fools." is a particular affirmative

Symbiosis An intimate association be tween dissimilar organisms among plants and animals for their mutual benefit The best known example among plants is the lichen which consists of an association between an alga and a fungus, each being essential to the other and forming a composite

plant.

Symonds John Addington English Born in Bristol, Oct 5, 1840, he was educated at Harrow and Oxford He won the Newdigate Prize in 1860 and became Fellow of Magdalen College in 1862 He was specially drawn to Italian literature, his first book being on Dante published in 1872 this was followed by The Renaissance in Italy He also wrote books of travel, monographs on Michelangelo Shelley, Philip Sidney and Ben Jonson as well as many miscellaneous works He died April

Symphony Ancient term used by the Greeks for a general conception of concord in music In the 17th century the term was employed to describe certain vocal compositions accompanied by instruments, for example, those of Schütz Later, it became a kind of sonata for orchestra, beging a palogy with an expertise averture. having analogy with an operatic overture A breaking away from the overture was begun by Mozart and Bach.

Synagogue Meeting place for Jewish Synagogue Worship Its origin is obscure There is no certain reference to the synagogue in the Old Testament, but in the time of Christ it was already an old-established and wide spread institution (Acts xv 21) not only in Palestine but throughout the Dispersion Probably it arose during the Exile, when the Jews were unable to maintain their customary religious observances

Syncopation Term in music originally signifying displacement of the accent of a beat Thus a note will commence on an unaccented, and continue with an accented beat To the practice of this, initiated by Gershwin and others, we owe the present vogue for syncopated music, popularly known as "jazz"

Syncope
heart's action
of the heart or lungs it may prove fatal It is
sometimes the first indication of organic
cardiac disease and it may be necessary to
apply electrical treatment, artificial breathing,
or subcutaneous infection of ether or brandy or subcutaneous injection of ether or brandy

Syndicalism Term used early in the velopment of the Labour movement. It aimed at the elimination of the capitalist and the control of industry by syndicates or workers It originated in France and its principles are set out in the writings of G Sorel

Synge John Millington Irish dramatist Born at Rathfarnham, near Dublin, on April 16, 1871 he was educated at Trinity College, Dublin He had an unusually deep insight into the character of the Irish peasantry, and wrote a series of remarkable plays illustrative of their life and their feelings The Playboy of the Western World is considered by many to be the greatest of these plays Others are In the Shadow of the Glen, and The Well of the Saints In 1904 he founded the Abbey Theatre, Dublin, in conjunction with Lady Gregory and W B Yeats He died on March 24, 1909

Syphilis Infectious and contageous disease intercourse, but also by contact with some medium contaminated by the virus. The microorganism responsible for this disease is the bacterium, Spirochoete pallida, and the first symptom, which appears about three weeks after infection, is the appearance of a small pustule which passes into a hardened ulcer or chancre Special treatment over a period of two years is essential if the disease is to be radically cured

Syracuse Seaport and city of Sicily, on the east coast Founded about 732 BC, it was one of the earliest and most important Greek cities in Sicily It early established a joint land and sea power, securing lasting dominance over the south-east coast Captured by the Romans, 212 B c, it became an important Roman provincial town, but was destroyed by the Saracens a D 878 The modern city has a cathedral and an amphitheatre There is a trade in salt, wine, olive oil and fruit Paper (1931) 50 320 Pop (1931) 50,320

Syria State of W Asia Bounded on the by Palestine, Transjordan and Iraq, and on the W by the Mediterranean, it comprises the the W by the Mediterranean, it comprises the republic of Syria and the Lebanon, and the states of the Alonites and Jebel ed Druz Cereals, leguminous crops, and fruits are widely grown, and tobacco is a valuable crop, especially around Latakia. The white mulberry is grown for silkworms in the north Exports include silk extra shape coars, fruits tobacco and silk, cattle, sheep, goats, fruits, tobacco and wool Besides the capital, Damascus, Aleppo, Beirut and Homs are important towns Modern Syrla covers some 60,000 sq m Pop about 3,000,000

3,000,000

The region to which the name Syria has been applied has varied at different periods. The Syria of ancient times stretched along the Mediterranean from Egypt as far as the Taurus. It passed from Egypt to Assyria and to Persia, and from 64 B c until A D 634 was part of the Roman Empire. After being occupied successively by the Saracens and the Selluks, Syria remained, with a short interval, in the hands of the Ottoman Turks from 1516 until 1918, when they were expelled by the British. In 1920 French interests in Syria were recognised by the assignation of a mandate for the country by the assignation of a mandate for the country to France A revolt of the Jebel ed Druz from 1925 to 1927 led to its inclusion in the republic of Syria

Lady Gregory and W B Yeats He died on March 24, 1909

Synod Ecclesiastical assembly In the Synod Stands above the local presbyteries and is subject to the General Assembly

Syringa Genus of deciduous shrubs of the Common lilac (S vulgaris) The name is popularly applied to the mock orange, a shrub of the order Saxifragaceae, which bears panicles of fragrant creamy white blossoms

AAL Name for the Dutch language Name for the form spoken in South Africa lacking in both inflexions and gender, and in it are some English and French words There is a Taal literature

Cloak worn by heralds On it the arms of the sovereign are The word is also used for a similar displayed cloak worn by the trumpeters of the Life Guards and Royal Horse Guards The Tabard Inn at Southwark, from which Chaucer started his pilgrims on their way to Canterbury, has been pulled down

Recess in which an image Tabernacle church doorways The figures in the tabernacle were usually built in, not detached Hebrew Tabernacle was a portable sanctuary set up by Moses for the worship of Jehovah in the wilderness (Ex xx) It was formed of curtains and divided into two parts, the holy place, and the "holy of holles," in which was the ark of the covenant.

The Feast of Tabernales is an autumn fee that the Heberna of the parts of the left.

tival of the Hebrews. It begins on the 15th of Tishri and lasts seven days, commemorating the dwelling of the Israelites in booths in the

wilderness

Tableland Stretch of land that, al though level, is raised above the surrounding country The Deccan in India is an example Another word for it is plateau

Table Mountain Mountain of South end of the Cape of Good Hope, near Cape town It is 3600 ft high and was first climbed in 1503 A great fire in Dec., 1935, destroyed much of the beautiful forest on the slopes of the mountain Table Bay is the name of the arm of the sea which it very leads. It was first arm of the sea which it overlooks It was first called Saldanha Bay, as Antonio de Saldanha was the first European to visit it in 1503

Tabor Small drum used as an accompaniment to a pipe or fife. In size it is little larger than a tambourine and is carried on the wrist of the player who uses only a singledrum stick

Tabriz Capital of the province of Azer baijan Persia Founded in 791 Founded in 791 Tabriz has long been the centre of the carpet making industry Until recently munication has been indifferent Until recently railway com In 1915 it was the scene of Russo Persian conflicts, and was occupied by both Russian and Persian forces. It has suffered considerably from earthquakes Pop 180 000

Tabu (or Taboo) Custom of prohibiting contact with certain persons or things It is a practice widespread among primitive peoples in all parts of the world, and tas a two fold character Either the object of tabu is the seat of supernatural powers and contact with it may bring harm, or it is evil and will infect a person with its own nature Some people or things are inherently tabu egg.

in some cases he may cleanse himself by ritual practices, in others the guilt is irremovable

In a modified form tabu may exist among civilised people, e.g., among the Jews certain foods are tabu, and custom makes certain modes of action tabu in different classes of society

Tachometer Appliance for measuring variations in the speed of machines A simple tachometer consists of a revolving spindle with a worm which acts upon a worm wheel attached to a graduated disc and a fixed index. See Speedometer

Tacitus Cornelius, praenomen, either Publius or Gaius historian Born about A D 58, he studied rhetoric, and early became a successful pleader at the Roman He married the daughter of Agricola, the conqueror of Britain, was in Germany from 89 to 93, and was consul in 97 His extant writings are the Life of Agricola, a blography of his father in-law, the Germania, treating of the ethnography of Germany, the Annales, the history of the Roman Empire from Tiberlus to Nero (14 to 68) and the Historiae, from Galba to Domitian (69 97) He died in A D 120

Northern province of Chile important because of its deposits itrate and minerals. It has a hot of sodium nitrate and minerals climate and is subject to earthquakes capital is Tacna. Pop 40,000

The Tacna-Arica question arose at the end of the war between Chile and Poru, won by Chile, 1883 The Treaty of Ancon provided that these two provinces should be held by Chile for ten years and that a plebiscite should then determine their sovereignty. It was found impossible to agree upon the method of carrying out the plebiscite and efforts made in 1925 and 1926, with the U.S.A as arbitrator, were unsuccessful. The dispute was amicably settled, however, in 1929, Taena going to Peru, and Arica to Chile

Tacoma City of Washington, U.S.A it is named after the Indian term for Mt. Rainler (Ta ho ma, or "great white peak") Formerly known as Commencement City, Tacoma has supplies of coal, and exports lead, timber and railway stock It has developed rapidly of recent years its harbour having grown greatly in importance since 1925 Pop (1930) 106,817

Term originally applied to the Tactics combined use of infantry, cavalry and artillery in battle It has been generally held that tactics have remained fundamentally similar throughout the ages though changes in weapons have brought corresponding changes in methods of fighting, eq. the subordination of bayonet and sabre to fire, and the diminishing importance of cavalry Whereas previously the balance of advantage was usually with the attacking side, the Great War, with the widespread use of machine guns, tilted the scales heavily in favour of the defending side Tanks, introduced at the Somme in 1916, somewhat restored the balance

Tadcaster Market town of Yorkshire (WR) It is on the river Wharfe 9 m from York, on the LNE Rly some people or things are inherently and e.v., wharfe 9 m from York, on the LNE Rly others tabu may be imposed temporarily or the chief industry is brewing Tadcastor was permanently by priests or rulers. An offence a Roman station, and in the Middle Ages had against tabu makes the offender himself tabu, a castle. Pop 3500

## Tadmor Sce Palmyra.

Tadpole Word used for the undeveloped frog or toad The tadpole lives in the water, which it leaves when the tail vanishes and the legs appear Scc Frog Chinese monetary unit Theoretically it is about an ounce of silver, but its value varies in different parts of the country The customs teal is worth just under three shillings. Altogether there are about three shillings Altogether there are about 170 different taels

River of South Wales It rises in the hills of Brechnockshire and flows for 40 m through Glamorganshire to the sea at Cardiff It passes Merthyr Tydyil and a number of other industrial centres The railway down the valley, once called the Taff Vale, is now part of the G W system

Another Taff flows through Pembrokeshire and Carmarthershire to the sea in Carmarther.

and Carmarthenshire to the sea in Carmarthen

It is 25 m long

Taft William Howard American states man Born in Cincinnati, Sept 15th, 1857, he studied at Yale University He practised law for several years, and was made Solicitor General in 1890 In 1990 he was appointed first Civil Governor of the Philippine Islands, and in 1906 Provisional Governor of Cuba He was Secretary for War 1907 8, and 27th President of the United States from 1909-13 He was then appointed Professor of Law at Yale, and in 1921 Chief Justice of the U.S.A. He died March 8th, 1930 William Howard American states

Tagore Sir Rabindranath Indian poet and sage Born in Calcutta, May 6, 1861, he received his education in India, subsequently visiting England, Japan, China, and North and South America In 1901 he founded at Santinikitan, Bolpur, Bengal, a school which gradually developed into a kind of international university, called Visva Bharata, making this his life's work. In 1913 he was awarded a Nobel Prize (£8000) for litera ture, devoting the proceeds to the unkeep of the ture, devoting the proceeds to the upkeep of the institution. He visited England in 1930

He has written more than 30 volumes of poetry, many essays, novels, dramas, and sermons, and is a composer All his writings rovenl a keen sense of the beauties of nature, a deep love of children, and a consciousness of God Many have been translated into English

Tagus River of Spain and Portugal It flows for nearly 400 m, then enters Portugal, and falls into the sea near Lisbon, where its estuary begins It passes Toledo, and is narigable to Santarem Its total length is 565 m

One of the Society Islands, also called Otahciti It is a French Tahiti called Otaheiti It is a French possession, covering about 600 sq m, and Papeete is

the capital

Tailor Bird (Orthotomus sutorius) Small bird of the order Sylvidae Its curious method of nest-building has given it the name of tailor bird. Choosing a large leaf at the end of a twig, it fastens the edges together with vegetable fibre, or slik, thus forming a pouch, within which it constructs its nest. It is found in Asia.

in 1928 They include literary and artistic, as well as athletic, contests

Tain Burgh and scaport of Scotland In the county of Ross and Cromarty, it stands on the Dornoch Firth, 44 m from Inverness, on the LMS Rly Pop 1383

Taine Hyppolite Adolphe, French historien Born April 21, 1828, in Vouziers, he studied in Paris, taking his Docteur es Lettres in 1853 In 1864 he was appointed Professor of Aesthetics and History of Art at the Ecole des Beaux Arts His chief works were Histoire de la littérature anglaise, Notes sur l'Angleterre, Philosophie de l'art, and his history of the French Revolution Les origines de la France contemporaine He died Maich 9 1893

Tait Archibald Campbell British prelate, Born in Edinburgh Dec 22, 1811 he was educated at the Edinburgh Academy, ne was equeated at the Edinburgh Academy, Glasgow University, and Balliol College, Oxford In 1842 he succeeded Dr Arnold as headmaster of Rugby, in 1849 he was made Dean of Carlisle, and Bishop of London in 1856 In 1868 he succeeded Longley as Archbishop of Canterbury He died Dec 3, 1882

Taj Mahal Mausoloum at Agra, India, built in 1632 by the Emperor Shah Jahan for the remains of his favourite wife, Mumtaz Mahal, he also lies buried there It was constructed in the Persian style by Ustad Isa a Turk. It is built of white mapple with a large centre down from smaller. marble, with a large centre dome, four smaller domes at the corners, and four minarets A marble terrace surrounds it

Talbot English family Its head is the Earl of Shrewsbury, and it has a talbot (qv) on its crest It is descended from a Hertfordshire landowner, and since the 14th a Hertfordshire landowner, and since the 14th century has had members in the House of Lords To the family belongs Rev Edward Steward Talbot Born Fob 19, 1844, he was educated at Charterhouse and Christ Church, Oxford From 1870 to 1889 he was warden of Keble College, Oxford, and from 1889 to 1894 vicar of Leeds From 1894 to 1905 he was Bishop of Rochester, in 1905 he became the first Bishop of Southwark, and was from 1911 until his retirement in 1923, Bishop of Winchester chester

Talbot Extinct breed of hound It was a variety of the bloodhound

Talbot House Wellare centre lor soldiers at Poperinghe It was established in 1915 in memory of Gilbert Talbot a son of the Bishop of Winchester, who was killed at Hooge in that year The organisation which grew out of it is named Toe H (q v)

Talc Soft mineral with greasy feel and pearly lustre composed of magnesium silicate, and occurring in silvery white or greenish foliated masses which readily split into thin flexible but inelastic plates. The name tale is applied commercially to mica, whose plates however are elastic. Stentito or soapstone and potstone are varieties of tale

Talking Film (or "Talkie") Name pictures accompanied by sound, especially speech Sound films owe their existence largely Tailteann Games
National games to modern electrical developments in the reproduction and amplification of sound One when they were held in many places and in an informal manner In 1924 the games were revived and they were held again in Dublin specified by the sound in the production and amplification of sound One with a separate sound record, but in the method now generally in use the sound is revived and they were held again in Dublin photographically recorded along the edge of the motion picture film. When the film is being | It consists of two parts, the Mishnah, a collec projected, light is transmitted through this tion of laws and traditional duties, and the record on to a photo-electric cell and trans | Gemara, a kind of commentary | Two Talmuds projected, light is transmitted through this record on to a photo-electric cell and trans formed into a variable electric current which is amplified and reproduced as sound by a

loud speaker

Talking pictures, which were first produced about 1928, have not only revolutionised film production and technique but have greatly extended the range of motion pictures, while topically and historically they perform a great service by preserving both the image and the voice of famous persons See CINEMATOGRAPHY

Talking Machine See Dictaphone,

PHONOGRAPH, TALKING FILM

Tallage Ing on the boroughs, and on his demesne lands and by lords on their demesne lands In 1340 tallages were forbidden except by consent of Parliament, and soon they

disappeared

Talleyrand Charles Maurice de Talley-rand-Perigord French statesman Born on Feb 13, 1754, at Paris in his third year he fell and lamed himself for life As a youth he trained for the church and became Bishop of Autun in 1789 During the Royolution he loosened the ties binding him to the Church, and plaved an important part at Paris from 1789 1793 He later became ambassador in London but on the execution of Louis XVI he was banished and lived in America. As foreign minister, from 1797 1807 he frequently sought, but without success, to modify Napoleon 8 aggression, and to seek aggrandisement by colonisation At the Congress of Vienna (1815) where he was the French representative, he gained more favourable terms for France than she would otherwise have had In 1830, as ambassador in England, he played an important part in the foundation of modern Belgium, and in 1834 he negotiated an alliance between England France Spain He died on May 17 1838 and Portugal

Tallinn Name sometimes used for Reval the capital of Estonia. RFTAL

Tall1s Thomas English organist and composer Born about 1515, he was organist of Waitham Abbey till 1540 and later with his pupil Byrd, of the Chapel Roval Howrote many chants motets anthems, Te Deums, etc. He died Nov 23, 1585, and was Deums, etc He died buried in Greenwich

Tallow Tree Chinese tree (Facaccaria sebifera) of the order Fuphorbiaccae The seeds are covered with a tallow; grease from which the Chinese manu facture candles The African tallow tree (Fen tadesma butjracca) is of the order Guityferae This has large red blossoms and edible berries that taste like butter

Tally Hazol or willow stick, usually about an inch thick, on which notches were cut to indicate an amount paid Tallies were used in the Exchequer in mediaeval times and the practice was continued in the Treasury till 1826 The amount of the transaction was marked on the two opposite sides the piece of wood was split down the middle one half oth wood was spine down the madate of the thirty going to the payer as receipt, the other (counter tally) kept by the payee Scoring at cricket was formerly notched on tallies

Talmud Book of heterogeneous Rab a kind of Jewish Bible Some consider it to be Mosaic, others think it was handed down by Ezra

exist known as the Jerusalem Talmud, and the Babylonian, the Gemara of each being different The latter, which is of greater authority among Jews, still exercises enormous influence over that people and stands second only to the Bible

Tal-y-Llyn Lake of Merionethshire It is about 2 m long and surrounded by beautiful scenery. It can be is surrounded by beautiful scenery reached from Machynlleth, 8 m to the south

River of England It rises in l'amar 1 amar Cornwall and flows to the sea at Plymouth It is 60 m long and forms for much of its course the boundary between Devon and Cornwall Its estuary called the Hamonze, forms part of Plymouth Harbour The river is crossed by a fine bridge at Saltash

Tamarind Tropical leguminous tree (Tamarindus Indica) Native of the East and West Indies, it bears racemes of yellow flowers striped with red and the pods contain acidulous pulp which surrounds the seeds The pods and bark are used medicinally, while the leaves yield a yellow colouring matter

Tamarısk Evergreen tree (Tamariz gallıca), of the order Tamarıcaceae About 10 or 12 ft in height it has feathery branches and minute leaves, while the tiny white or pale pink flowers are borne in short spikes It is used extensively for hedges in seaside places in Southern England, owing to its hardiness and immunity from the effect of cold, salt winds There are over 60 species of trees and shrubs in the genus but gallica is the only one common in England.

Tamatave Seaport of Madagascar, lying on the eastern coast Its harbour is formed by a coral reef The town The town itself is well developed, possessing good thoroughfares, and exports gold dust, raffa and hides It has suffered severely from plagues Pop 15 000

Tame River of England 30 m long It rises in the south of Staffordshire and flows in a northerly direction to join the Trent. Tamworth stands on the river

Tamerlane (or Timur) Oriental con-queror Born at Kesh in 1336 he was a gentle and studious youth, but 1358 saw him commence a series of conquests which were to take him from his kingdom in Turkistan as far as the Caspian Sea the Urals the Volga through Persia, even into Egypt and India. In 1398 he captured Delhi Samarkand was his chief city He died at Atrar on Feb 17. 1405

Tamil Sanskrit name for the Dravidian, or South Indian peoples and anguages The Tamils are small and in languages telligent and form a merchant and working class. The Tamil language is spoken in S India and Ceylon It is the richest and most progressive of the South Indian tongues, and owes less to Sanskrit than Kanarese and Telugu The literature is of high antiquity

Tammany Hall Political organisation The word "Tammany" is an Indian word meaning affable The Society was founded in 1789 by William Mooney, an Irishman, and there has been a strong Irish element in it ever since Its headquarters were first in Frankfurt Street and then at the City Hall The Society has played an important part in city and state

politics, where it has proved a powerful ally of the Democratic party

Tammuz God of the sun in Phoenician legend He was supposed to He was supposed to spend six months of the vear in the heavens with Astarte, the moon goddess, and six in the lower regions He resembles the Greel. Adonis

Tamping Mining term for the act of filling up a bore hole above the explosive in the process of blasting. This is done to prevent an explosion in the wrong direction, the material or tamp, usually clay or similar matter, being rammed down tightly with a translation of the process. with a tamping bar

Tamworth Borough and market town of Staffordshire It is at the junction of the rivers Tame and Anker, 110 m from London and 13 from Birmingham, on the L M S Rly The fine parish church, the town hall and the grammar school are of interest The gateway of the castle is used as a museum Tamworth's industries include the castle is used as a museum Tamworth's industries include The brewing and a trade in farm produce The town was a stronghold of Mercia before the gold mines Pop (1931) 7790

Tamworth A pastoral centre, it is 200 m due north of Sydney, with which it is connected by railway. In the vicinity are connected by railway In gold mines Pop (1931) 7790

Tanager Family of finch-like passerine birds They are natives of America The plumage is brilliant and the conical bill, notched towards the end, is a characteristic feature Tanagra rubra, the scarlet tanagra or Tanagra rubra, the cuaracteristic feature Tanagra rubra, the scarlet tanager, or summer red bird, has brilliant scarlet plumage with black wings and tail In autumn his plumage changes to a dull green like the female bird. The food consists of insects, fruit and berries

Tanderagee Urban district and mar-ket town of Co Armagh, Northern Ireland It is on the River Casher and has a little trade The castle is a seat of the Duke of Manchester Pop 1400

Tanfield Urban district of Durham In a colliery district, it is 7 m south-west of Gateshead, and 267 from London by the LNE Riv, its station being Shield Row Pop (1931) 9236

Another Tanfield is in Yorkshire, 6 m north of Ring The church contains monuments

of Ripon The church contains monuments of the Marmion family

Tanga Town and seaport of Tanganyika Tornitory, East Africa It has a good harbour protected by the island of Pemba and is connected by railway with the interior It is 77 m from Mombesa and 73 from Zanzibar The original town was on the Island of Tanga, now a quarantine station. Pop 11,000

Tanganyika Lake of Africa It is about 450 m long and covers about 13,000 sq m In the centre of the continent, its eastern shores are British territory and its western shores Belgian The ports on it include Ujiji, Kigoma, Kirando and Bismarckburg Kigoma is the terminus of the relivary line from Darses Salem. The of the railway line from Dar-es Salaam The chief port on the Belgian side is Albertville The lake was discovered in 1858

Territory Tanganyika Territory
Territory in Central East Africa, east of Lake
Tanganyika In area it is 374,000 sq m
Formerly German it is now under mandate to
Great Britain small parts being controlled by
Belgium and Portugal It contains the highest
peak in Africa, the extinct volcano, Mt Kilima

Centracter
Tansy
Genus of perenulal herbaceous
Tansy
plants (Tanaccium) of the order
Compositae. T vulgare, the native British
variety, has a creepling rootstock, green feathery
leaves and flower heads of a golden yellow
The plant is aromatic and bitter to the taste
peak in Africa, the extinct volcano, Mt Kilima Langanyika

taining valuable timber, and much fertile land The natives keep many cattle and sheep Euro-pean settlers grow sisal, coffee, etc., and groundnuts, copra and cotton are exported Gold, coal and other minerals are known to exist The capital is Dar-es-Salaam Pop 5,022,640 Tangier Scaport of Morocco It is situated on the Strait of Gibraltar The port belonged to England for Scale 22 years, being part of the dowry of Catherine of Braganza, wife of Charles II It was captured by the Moors in 1683 To-day it and its district is international There is surrounding district is international. There is some small trade, but the place is chiefly known as a health resort. Pop. 53,000

Tango Spanish national dance A modified form of this dance has had considerable vogue in England and on the Continent It is a slow, graceful dance in a time, with a variety of steps which can be combined at the will of the dancers

Tank Armoured motor vehicle carrying light guns, first used by the British Army for offensive purposes during the Great War Being secretly made, the first tanks introduced a considerable element of surprise, which contributed to their success. Primarily desired for the great way to be supposed to their success. designed for dealing with machine guns, they were required to traverse rough country, negotiate trenches and overcome defences, besides being bullet-proof and armed They incorporated the caterpillar track, already used in agricultural and other vehicles, dis-posed along the whole length of the tank which was specially shaped to enable them to deal with trenches 10 ft wide. The modern tank is light, easily handled, fast, and has a large range on one supply of fuel

Tannenberg Village of East Prussia. berg, and is celebrated for two battles fought near here In 1410 the Teutonic Knights were defeated by the Poles, and in August, 1914, the Russians were beaten by the Germans The battle, directed on the German side by Hindenburg, was one of the most decisive of the Great War Great War

Tannin Alternative name for tannic acid which is present in gall nuts. It is an amorphous astringent powder very soluble in water and less so in alcohol. An analogous series of tannins is found in many plants, such as tea, oak bark, and catechu, these having the general characters of great solubility, astringency, affinity for the skin of animals, and colouration with iron salts Tannin is used in making inks, the clearing of wines and in medicine

Tanning Process by which leather is made from the skins of animals In vegetable tanning the process depends upon the action of tannic acid upon the action of tannic acid upon the skin, and the materials used are oak, wattle and mangrove barks, valonia, diviwattle and mangrove barks, valonia, dividivi, sumach, etc. Chromium salts are used in making chrome leather, a highly resistant material, while alum is the tanning agent in another process. Oil tanning is used in making chamois leather to give the required soft supple character

the motion picture film When the film is being projected, light is transmitted through this record on to a photo-electric cell and trans formed into a variable electric current, which is amplified and reproduced as sound by a loud speaker

Talking pictures, which were first produced about 1928, have not only revolutionised film production and technique but have greatly extended the range of motion pictures, while topically and historically they perform a great service by preserving both the image and the voice of famous persons See CINEMATOGRAPHY

Talking Machine See Dictaphone,

PHONOGRAPH, TALKING FILM
Tallage Tax levied in England by the
king on the boroughs, and on
his demesne lands, and by lords on their
demesne lands In 1340 tallages were forbidden
except by consent of Parliament, and soon they
disappeared

Talleyrand Charles Maurice de Talleyrand-Perigord French
statesman Born on Fob 13, 1754, at Paris,
in his third year he fell and lamed himself for
life As a vouth he trained for the church and
became Bishop of Autun in 1789 During the
Revolution he loosened the tles binding him
to the Church, and plaved an important part
at Paris from 1789 1793 He later became
ambassador in London but on the execution
of Louis XVI he was banished and lived in
America. As foreign minister, from 1797 1807
he frequently sought, but without success, to
modify Napoleon's aggression and to seek
aggrandisement by colonisation At the Con
gress of Vienna (1815) where he was the French
representative, he gained more favourable
terms for France than she would otherwise
have had In 1830, as ambassador in England,
he played an important part in the foundation
of modern Belgium, and in 1834 he negotiated
an alliance between England, France Spain
and Portugal He died on May 17, 1838

Tallinn Name sometimes used for Reval, the capital of Estonia. See

Tall1s Thomas English organist and composer Born about 1515 he was organist of Waltham Abbey till 1540 and later with his pupil Byrd of the Chapel Roval Howrote many chants, motets, anthems, Te Deums, etc. He died Nov 23, 1585, and was buried in Greenwich

Tallow Tree Chinese tree (Fracecaria sebifera) of the order Fuphorbiaceae The seeds are covered with a tallowy grease from which the Chinese manu facture candles The African tallow tree (Pen tadesma bulyracea) is of the order Gullycrae This has large red blossoms and edible berries that taste like butter

Tally Harel or willow stick, usually about an inch thick, on which notches were cut to indicate an amount paid Tallies were used in the Exchequer in mediacval times, and the practice was continued in the Treasury till 1826 The amount of the transaction was marked on the two opposite sides the piece of wood was split down the middle one half (the tally) going to the payer as receipt, the other (counter tally) kept by the payee Scoring at cricket was formerly notched on tallies

Talmud Book of heterogeneous Rab binleal writings, a kind of Some consider it to be Mosale, others think it was handed down by Ezra

It consists of two parts, the Mishnah, a collection of laws and traditional duties, and the Gemara a kind of commentary. Two Talmuds exist known as the Jerusalem Talmud, and the Babylonian, the Gemara of each being different. The latter which is of greater authority among Jews still exercises enormous influence over that people and stands second only to the Bible

Tal-y-Llyn Lake of Merionethshire. It is about 2 m long and is surrounded by beautiful scenery It can be reached from Machynlleth, 8 m to the south

Tamar River of England It rises in Cornwall and flows to the sea at Plymouth It is 60 m long and forms for much of its course the boundary between Devon and Cornwall Its estuary called the Hamoaze, forms part of Plymouth Harbour The river is crossed by a fine bridge at Saltash

Tamarind Tropical leguminous tree (Tamarindus indica) Native of the East and West Indies it bears racemes of yellow flowers striped with red, and the pods contain acidulous pulp which surrounds the seeds The pods and bark are used medicinally, while the leaves yield a yellow colouring matter

Tamarisk Evergreen tree (Tamarix gallica), of the order Tamariacaee About 10 or 12 ft in height it has feathery branches and minute leaves, while the tiny white or pale pink flowers are borne in short spikes it is used extensively for hedges in seaside places in Southern England, owing to its hardiness and immunity from the effect of cold, sait winds There are over 60 species of trees and shrubs in the genus but T gallica is the only one common in England

Tamatave Seaport of Madagascar, lying on the eastern coast. Its harbour is formed by a coral reef The town itself is well developed, possessing good thoroughfares, and exports gold dust, raffla and hides It has suffered severely from plagues Pop 15,000

Tame River of England, 30 m long It rises in the south of Staffordshire and flows in a northerly direction to join the Trent. Tamworth stands on the river

Tamerlane (or Timur) Oriental conqueror Born at Kesh in 1336, he was a gentle and studious youth but 1358 saw him commence a series of conquests which were to take him from his kingdom in Turkistan as far as the Caspian Sea, the Urals, the Volga, through Persia, even into Egypt and India In 1398 he captured Delhi Samarkand was his chief city He died at Atrar on Feb 17, 1405

Tamil Sanskrit name for the Dravidian, or South Indian peoples and languages The Tamils are small and in telligent and form a merchant and working class The Tamil language is spoken in S India and Ceylon It is the richest and most progressive of the South Indian tongues, and owes less to Sanskrit than Kanarese and Telugu The literature is of high antiquity

Tammany Hall Political organisation of New York The word "Tammany" is an Indian word meaning affable The Society was founded in 1789 by William Mooney an Irishman, and there has been a strong Irish element in it ever since Its headquarters were first in Frankfurt Street and then at the City Hall The Society has played an important part in city and state

spend six months of the year in the heavens with Astorte, the moon goddess, and six in the He resembles the Greek Adonis lower regions

Tamping Mining term for the act of filling up a bore hole above the explosive in the process of blasting. This is done to prevent an explosion in the wrong direction, the material or tamp, usually clay or similar matter, being rammed down tightly with a travillar large. with a tamping bar

Tamworth Borough and market town of Staffordshire It is at the junction of the rivers Tame and Anker, 110 m from London and 13 from Birmingham, on the LMS Rly The fine parish church, on the LMS Rly The fine parish church, the town hall and the grammar school are of interest The gateway of the castle is used as a museum Tamworth's industries include The brewing and a trade in farm produce The town was a stronghold of Mercia before the gold mines Pop (1931) 7790

Tamworth A pastoral centre, it is 200 m due north of Sydney, with which it is connected by railway In the vicinity are gold mines Pop (1931) 7790

Tanager Family of finch like passerine birds They are natives of America The plumage is brilliant and the conical bill, notehed towards the end, is a characteristic feature Tanagra rubra, the contrait on, noticed towards the entry is a characteristic feature Tanagra rubra, the scarlet tanager or summer red bird, has bril-liant scarlet plumage with black wings and tail In autumn his plumage changes to a duli green like the female bird The food consists of insects, fruit and berries

Tanderagee Urban district and mar-Northern Ireland. It is on the River Casher and has a little trade The castle is a seat of the Duke of Manchester Pop 1400

Tanfield Urban district of Durham In south-west of Gateshead, and 267 from London by the LNE Riv, its station being Shield Row Pop (1931) 9236 Another Tanfield is in Yorkshire, 6 m north

of Ripon The churc of the Marmion family The church contains monuments

Tanga Town and seaport of Tanganvila Tanga Territory, East Africa It has a good harbour protected by the island of Pemba and is connected by railway with the interior It is 77 m from Mombasa and 73 from Zanzibar The original town was on the island of Tanga, now a quarantine station Pop 11,000

Tanganyika Lake of Africa It is about 450 m long and covers about 13,000 sq m. In the centre of the continent, its eastern shores are British territory and its western shores Belgian The ports on it include Ujiji, Kigoma, Kirando and Bismarckburg Kigoma is the terminus of the railway line from Dar-es-Salaam The chief port on the Belgian side is Albertville The lake was discovered in 1858 The

Territory Tanganyika Territory in Central East Africa east of Lake Tanganyika In area it is 374,000 sq m Formerly German it is now under mandate to Great Britain small parts being controlled by Belgium and Portugal It contains the highest peak in Africa, the extinct volcano, Mt Kilima. The Name of the order Compositate T vulgare, the native British variety, has a creeping rootstock, green feathery leaves and flower heads of a golden yellow The plant is aromatic and bitter to the taste peak in Africa, the extinct volcano, Mt Kilima.

politics, where it has proved a powerful ally of the Democratic party

Tammuz God of the sun in Phoenician He was supposed to Pean settlers grow sisal, coffee, etc., and groundnuts, copra and cotton are exported Gold, coal and other minerals are known to exist The capital is Dar-es Salaam Pop 5,022,640

Tangjar Seaport of Morocco It is

Tangier Seaport of Morocco It is stuated on the Strait of Gibraltar The port belonged to England for some 22 vears, being part of the downy of Catherine of Braganza, wife of Charles II It was captured by the Moors in 1683 To-day it and its surrounding district is international There is some small trade, but the place is chiefly known as a health resort. Pop 53,000

Tango Spanish national dance A modified form of this dance has had considerable vogue in England and on the Continent It is a slow, graceful dance in a time, with a variety of steps which can be combined at the will of the dancers

Tank Armoured motor vehicle carrying light guns, first used by the British Army for offensive purposes during the Great War Being secretly made, the first tanks introduced a considerable element of surprise, which contributed to their success Primarily designed for dealing with machine guns, they were required to traverse rough country, negotiate trenches and overcome minor They incorporated the caterpillar track, already used in agricultural and other vehicles, disposed along the whole length of the tank which was specially shaped to enable them to deal with trenches 10 ft wide. The modern tank is light, easily handled, fast, and has a large range on one supply of fuel

Tannenberg Village of East Prussia. berg, and is celebrated for two battles fought near here In 1410 the Teutonic Knights were defeated by the Poles, and in August, 1914, the Russians were beaten by the Germans The battle, directed on the German side by Hindenburg, was one of the most decisive of the Great War Great War

Tannin Alternative name for tannic acid It is an amorphous astringent powder very soluble in water and less so in alcohol An analogous series of tannins is found in many plants, such as tea, oak bark, and catechu, these having the general characters of great colubility of the series of colubility of the series of the ser solubility, astringency, affinity for the skin of animals, and colouration with iron salts Tannin is used in making inks, the clearing of wines and in medicine

wines and in medicine

Tanning Process by which leather is made from the skins of animals In vegetable tanning the process depends upon the action of tannic acid upon the skin, and the materials used are oak, wattle and mangrove barks, valonia dividivi, sumach, etc Chromium salts are used in making chrome leather, a highly resistant material, while alum is the tanning agent in another process Oil tanning is used in making chrome leather to give the required soft sunning chamois leather to give the required soft supple character

Genus of perennial herbaceous plants (Tanaccium) of the order

redicinal purposes a temperature variety, has silvery leaves

Tantalum Rare metallic element have ing the symbol Ta and It occurs in the minerals

It occurs in the minerals

It occurs in the minerals atomic weight 181 b It occurs in the minerals tantalitie, columbite and struverite When isolated it is a white, ductile, hard metal with a high melting point and electrical resistance It is used for filaments of incandescent lamps

Tantalus In Greek legend, a son of Zeus As punishment for a crime he was sentenced to stand up to his neck in Hades in water which receded when he tried to drink, while above him were truits which the wind blew beyond his reach when ever he attemnted to crass them. Hence the ever he attempted to grasp them. Hence the yerb "to tantalise"

Taoism Philosophy and religion of the Chinese The philosophy is a system of the sage Lao Taze, and is associated with movements of the earth and heavens which are the causes of phenomena occurring in the world The religion is a mixture of magic and polytheism and has been largely influenced by Buddhism

Tape Wachine Telegraph instrument sages on a moving paper tape, and used in the distribution of news, especially stock market prices In this instrument a revolving type wheel is pressed against the moving tape by the action of an electro magnet

Tapestry Fabric coverings of furniture, floors and walls, woven with coloured threads by needles instead of in shuttles At the Gobelin factories in Paris, the threads were stretched in vertical frames (high warp), at Beauvais, Bayeux and else where in horizontal frames (low warp). The subjects vary with the prevailing forms of art, but, are remarkle, historical or masteral in but are romantic, historical or pastoral in nature Practised from earliest times, the art has almost died out

Parasite (Entozoon) in habiting the alimentary Lapeworm canal of warm blooded vertebrates It attaches its suckers to the mucous membrane and absorbs its nutrition through its skin Some eight kinds are known in man, and those in animals produce such affections as measles in pigs and oxen,

and the staggers in sheep

Tapioca (Manihot utilissima.) Tropical plant of the order Euphor biaceae It is several feet high, of shrubby growth, and has a large fleshy root. The root growth, and has a large fleshy root. The root contains an acrid milk juice, poisonous in its natural form, which is extracted by pressure and purified. Its root also yields a starchy substance which is subjected to heat and dried to form tapicca for use at the table. The dried and grated root is baked, forming cassava bread and a beverage called piwarry is also made from the fermented juice

Tapir Ungulate mammal (lapirus) of the order Perissodactyla They are found in Central and 8 America and Malaya. On the front feet there are four digits, on the hind feet three only A shy nocturnal animal, inhabiting forest regions near water, it is vegetarian in diet The body is clumsy and pir like with short legs and short tail the snout being prolonged into a proboscis. The skin is dark brown. The Malayan species has a band

of white about its middle of white about its middle Taplow Village of Buckinghamshire It is on the Thames, 4 m from Slough, on the G W Rly There is an interest-

medicinal purposes T leucophyllum, a garden ing old church and here is Taplow Court, the variety, has silvery leaves residence of Lord Desborough The village is visited for boating

Tap Root Primary root of certain plants which grows downward without division. In some plants it is expanded to form a storage place for plant material as in the beet or parenip, which tapers towards the end, and the turnip which takes a globular form

Tar Dark brown or black viscid liquid with a peculiar aromatic odour, obtained when wood coal or similar substances are subjected to destructive distillation. It is variable in composition, but consists largely of carbon compounds such as acetic and pyrollineous acids resins, paraffins, phenols, etc. By distillation coal tar yields numerous substances from which aniline dyes are derived. Tar is used also as a protective coating for wood and iron, for road making and also in medicine

Tara State It is on the Boyne 6 m from Navan On its hill the kings of Ireland were crowned the chieftains assembled, and S

Patrick preached

Tarantella Neopolitan dance in 68 measure, and the music to which it is performed This quick dance was formerly supposed, by causing perspiration, to drive out the poison caused by the bite of the tarantula, a venomous spider of Tarentum, which was responsible for the malady known as tarantism

Taranto City and seaport of Italy It stands on an island in the Gulf of Taranto, an opening of the Mediterranean Sea, in the extreme south of Italy It is 44 m from Brindisi and consists of a new town and an old one With a large commercial harbour, it is also a station of the Italian Navy The buildings include the cathedral, the castle and a museum The industries include shipping, fishing, oil refining and some manufactures

Taranto was founded by the Greeks who called it Tarentum, and was one of the richest cities on the Mediterranean coast until partly destroyed by the Romans in 209 BC Pop (1931) 105,808

Tarantula Several species of large spider, but especially Lycosa tarantula, found near Taranto in Italy It is not more poisonous than other spiders of similar size Living in a burrow in the ground, it catches its prey by pouncing on it, not in

Tarbert Port of Argyllshire It is on the east side of the Mull of Mintyre, 30 m from Campbeltown There are some ruins of a castle, it is a fishing centre with a good harbour and is visited by tourists

Tardieu André Pierre Gabriel Amédée French statesman He was born in Paris, Sept 22, 1876, and educated there After a journalistic career, during which he was After a journalistic career, during which he was foreign editor of Le Temps, he entered the chamber of deputies in 1914, and was High Commissioner of France to the United States, 1917 19 He was a Fronch delegate to the Peace Conference, 1918 19 An adherent of Clemenceau, he firmly opposed any variation of the Versailles Treaty He became Prime Minister in 1929, again in 1930, and on the fall of the Laval government, Feb 21, 1932 He resigned, May 10, on the election of a new

Tariff List of goods on which duties are paid when they enter a country Nearly all countries impose duties on imports, though Great Britain, between 1860 and 1931, preferred free trade Dutles were imposed on preferred free trade Duties were imposed on certain articles, eg, tobacco and wines, during that period, but they were for revenue purposes only, industry was in no way protected by tariffs.

In 1903 Joseph Chamberlain advocated a scheme of tariff reform for Great Britain, and led an agitation for the imposition of protective duties Though not then successful, the movement has been kept alive, and in 1931 the changed economic conditions led to the adoption of a tariff, for which the way had been prepared by the imposition of duties on imported luxuries by Mr M'Kenna in 1915 Pending the drawing up of a scientific tariff, heavy duties were placed upon certain imports and on certain classes of fruit, flowers and vegetables This was followed in 1932 by the imposition of a basic tariff of 10 per cent on all manufactured goods, excluding those arriving from other parts of the British Empire An independent committee of three was established to make recommendations about tariffs and, on its advice, the duties on certain articles were raised beyond 10 per cent, while some of those imposed in 1931 were reduced This committee remains in being to watch the working of the tariff scheme, and to recommend changes to suit altered conditions suit altered conditions. A list of exemptions, reduced duties and additional duties has been published, revised and consolidated as from Jan 1st, 1936 The duties are collected by the board of customs and excise It is believed that high tariffs were a con-

tributory cause of the economic crisis of 1931-32, and there has been a good deal of discussion about reducing them In June the Netherlands, Belgium and Luxembourg made between themselves an agreement for reducing tariffs IMPERIAL PREFERENCE, M'KENNA, See

REGINALD Tarpeia Figure in Roman legend. She Tarpeius, keeper of the citadel on the Cepitoline Hill She betrayed the city to the Sabines by opening the gates, but was crushed to death by them The name was given to the rock on the hill from which traitors were thrown down

Tarpon (Megalops atlanticus)
the herring family Fish of Abundant in South Atlantic waters, it often weighs over a hundredweight The body is elongated and covered with large silvery scales It is a food fish and affords good sport to anglers

Tarquinius Superbus, Lucius Seventh and last of the traditional kings of Rome According to legend he began to reign in 534 B.C He greatly extended the Roman power by the subjection of neighbouring tribes He completed the Capitol, and built the temple of Jupiter For 300 pieces of gold he acquired the Sibviline books (see Sibvil) He was eventually driven from Rome, following the outrage perpetrated by his son Sextus on Lucretia (q v), and died at Cumae, 510 B o

Tarragon Perennial herb (Artemisia dracunculus) Native to Spain. Italy and other countries of the Medi-

Spain, Italy and other countries of the Mediterranean region, it is an aromatic plant, allied to wormwood, and is used to flavour vinegar, pickles and sauces

President, following the adverse result of a general election in 1934, for a time, he was Minister without portfolio He has published soveral books of a political character stands on the Hudson River it is known for the first of modes of the first of t with which it is connected by railway, and stands on the Hudson tilver It is known for its connection with Washington Irying, who made it the Sleepy Hollow of his stories

Tarsier Rare animal of the genus Tarsius, a kind of lomur, inhabiting the Eastern Archipelago It is so named because of its clonguted tarsal bones, which produce very long feet and hands It is about as big as a squirrel, fawn in colour, with large ears and eves, a tuited tail and disclike adhesive surfaces on its fingers habits trees, and feeds on lizards and insects.

Tarsus City of Asia Minor It is about 12 m. from the north of the River Cvdnus It was an important place under the Greeks and the Persians, but belonged to Rome when S Paul was born here

Material cross barred l'artan lartan threads of various colours Originally of wool or silk, and used in Scotland, where each clan had its own peculiar pattern, the cloth was known as early as the 14th century After the 1745 rising in Scotland attempts were made to prohibit its use

Tartar Crude potassium tartrate (K H C, H, O, Wines when fermenting deposit a crystalline crust (argol), which, when purified, yields Cream of Tartar This is used in making tartaric acid, silver cleaning, wool dyeing and in the preparation of drinks and baking powder, also as a purgative Tartar Emetic is a substance which occasions vomiting It is, in large doses, a poison and is used as a mordant in dyeing Tartar of the teeth is a sallvary deposit, consisting of mucus and phosphate of lime

Tartarus In Greek legend a place of punishment in Hades It was surrounded by a wall and was a place of utter darkness

Tartary Area inhabited by the Tartars partly in the Middle Ages It was partly in Europe and partly in Asia In the latter continent the name was used for the vast district that stretched to the Pacific

Tasmania State of Australia An island south of Victoria discovered in 1642 by Tasman, it became British in 1803 Its excellent climate, noted by Captain Cook, had greatly facilitated development and progress, and, together with natural scenic beauty, is responsible for attracting thousands of visitors yearly Mining is important, especially zinc, copper, tin and osmiridium. This and other industries are much to the development of hydrotin and osmiridium. This and other industries owe much to the development of hydro-electric power from elevated lakes, which is still proceeding Intensive agriculture, such as fruit growing, especially apples, is practised, and timber and wool are important exports standard, is well organised. Hobart, the capital, is a fine city and the principal port The area is 26,215 sq m Pop (1931) 214,694

Tasmanian Devil Nocturnal mal of the genus Dasqueus, found only in Tasmania It is about 21 ins in length, with a tall of 7 ins The limbs are thick-set, short and clumsy, the feet plantigrade, the toes clawed The black fur is harsh and thick, with white patches on the chest and haunches
Though somewhat resembling the badger, its
gait and movements are bearlike Voracious Voracious and flerce, it owes its name to the early colonists; whose sheep and poultry suffered from its nightly attacks

Tasso Torquato Italian poet He was born in Sorrento, March 11, 1544, the son of Bernardo Tasso, also a poet He became early attached to the ducal court at Ferrara and while there wrote a beautiful pastoral play, Aminta, and his immortal epic, La Gerusalemme Liberata Shortly after, his mind became unhinged, and in 1579 he was confined to hospital for 7 years. Eventually he was summoned to Rome to be crowned as

ne was summoned to Rome to be crowned as poet laureate, but died April 25, 1595, before the ceremony could take place

Tate Sir Henry British manufacturer, merchant, and patron of art Born in Chorley, Lancashire, on March 4, 1819, he entered the sugar trade and amassed a large fortune A great lover of art, he acquired a fine collection of pictures which he offered to the nation, together with £80,000 towards a building A gallery was erected on the site of building A gallery was erected on the site of the old Millbank Prison on the Thames and opened July 21, 1897 Popularly known as the Tate Gallery, it is under the control of the trustees of the National Gallery Sir Henry trustees of the National Gallery Sir Henry also gave liberally to Liverpool University, and presented four free libraries to London He was created a baronet in 1898 and died Dec 5, 1899

Tattersall's Auction rooms in Lon don Here race horses are bought and sold, and the establishment is a meeting place for bookmakers and betting men for settling their accounts with one another The rooms were opened in 1766 by Richard Tattersall at Hyde Park Corner Since 1865 they have been in Knightsbridge

Tattershall Village of Lincolnshire from Horncastle There is an interesting church and a village cross, but the place is more famous for its castle. The present building, long a seat of the Cromwell family, dates from the 15th century It was restored by the Marquess Curzon and presented to the nation It is a magnificent example of mediaeval brickwork

Tatting Species of lace made by hand The cotton thread is looped round the fingers and manipulated by means of a small shuttle into tight rings These are Once a popular then joined to form a pattern form of fancy work, the shuttles were often of tortoise shell, mother of pearl or ivory

Tattoo Primarily a signal given by a to their quarters Its nature varies with the different branches of the service, but it gener ally includes 'God Save the King" and "The Last Post

The word has come to be used for a military display, given at night Tattoos are held every year at Aldershot and Woolwich Wondorful effects are produced by the moving troops and the use of lights

Tattooing Practice among uncivilised nations of marking the skin by incisions into which are introduced charcoal or coloured liquids This operation is performed in the South Sea Islands with a kind of home comb direct forms. kind of bone comb dipped in charcoal and driven into the flesh with a mallet High born natives were often tattooed all over, while the result was esteemed as protection against cold heat or insect-bites, as an ornament or as lending an expression of ferocity in battle

The practice, which was condemned by Mosos (Lev xix, 28), is now falling into disuse

Karl Christoph Traugott. Tauchnitz Karl Christoph Traugott. German publisher Born near Leipzig, Oct 29, 1761, he established a printing and publishing business in Leipzig His fame rests on his enterprise in issuing cheap but excellent editions of the Greek and Latin classics, which soon had a world wide circulation He died in 1836 His nephew, Baron Christian Bernhard von Tauchnitz, born Aug 25 1816 began in 1841 to publish his world famed Collection of British Authors, for circulation outside the British Isles He died at Leipzig, Aug 13 1895 | Tauchnitz Tainton Borough of Somerset, also the

Taunton county town Tone, 163 m from London, on the GW Rly The finest building is the church of St Mary Magdalene, with a lofty tower, dating from the 15th century The church of St James is equally old Other buildings include the castle, now used as the county museum There is a market hall and a market cross Taunton is an important agricultural centre and has manufactures of gloves and cider The district manufactures of gloves and cider around is called Taunton Deane Pop (1931) 25,177

Taunus Mountain range in western Germany, about 55 m in length Some of its peaks overlook the Rhine. It is celebrated for its ruined castles, its vineyards and its spas, among them Homburg and Wiesbaden

Taurus System of mountain ranges of Asia Minor, running for the most part parallel to the SE coast The two prin part parallel to the BE coast The two principal ranges are the Bulghar Dagh and the Ala Dagh Of the passes of the Taurus the best-known is that called the Cilician Gates, which gives access to the Adana valley In the so called Anti-Taurus, a northern spur of the Taurus proper is Mt. Argaeus, the lottlest peak in Asia Minor

Tau Sagis Wild plant It grows in contain 40 per cent of coagulated pure rubber contain 40 per cent of congulated pure rubber in its roots. In 1932 its cultivation was en couraged by the Soviet authorities as it was hoped that in this way the demand for rubber could be met internally. Under the second five year plan some 1,400,000 across are to be planted with tan sagis, and these will produce 88,000 tons of rubber

Tavistock Urban district and market town of Devonshire It is on the Tavy, 16 m from Plymonth, on the GW and S Rlys A canal connects it with the Tamar The guildhall includes some remains of the abbey Here are Kelly College and Endsleigh, the seat of the Duke of Bedford, whose eldest son is called the Margues of whose eldest son is called the Marquess of Tavistock The town has an agricultural trade, but formerly it was a centre of the wool trade and of lead mining Pop (1931) 4453

River of Devonshire Rising on Dartmoor between Oakhampton and Princetown, it flows south past Tavistock and joins the Tamar about 5 m above Devon port It is about 20 m in length

Taw River of Devonshire It rises on Dartmoor and flows N for 50 m, falling into the sea near Appledore

Tawe River of Wales It rises in the Black Mountains, Brocknockshire and flows S to Swansea, where it falls into Swansea Bay It is about 36 m. in length

Taxation Method of raising money from a people for the maintenance of the state. It may be direct or indirect dividual, though it may be differently btained Income Tax, that is to say a certain reportion of each person's income, is the most bytons type of this kind. Indirect taxes are roportion of each person's income, is the most byious type of this kind Indirect taxes are erived from a general payment on some ommodity or activity (eg, the Entertainment ax). Here the amount of the tax is paid by he dealer or organiser, who raises the price of its product or entertainment accordingly, hus recoupling himself from the public. It is n accepted axiom that if a person is taxed he hould also be represented in the legislature. The term local taxation is sometimes applied to the money collected by means of a local attention is the maintenance of public services authorised by the state of the maintenance of public services authorised by the state.

Taxation In law a method of examining, the bills of costs of solicitors. In the supreme ourt there is a taxing office where this is one, it is also done by the registrars of the ounty courts. The costs of taxation are borne of the client unless the charges are considered years, when they are borne by the solicitor. xcessive, when they are borne by the solicitor

Taxidermy Preparation and preserving of the skins of animals the process was introduced in the 18th century ne process was introduced in the 18th century of answer the demands of sportsmen Formerly he skin was stripped with fine knives or cissors, and stuffed with tightly-packed tow, eing made to stand in the desired posture by he judicious use of wire Nowadavs modelling as replaced stuffing, a copy of the body is repared in full anatomical detail, and the him placed around it. Lin placed around it

Tay River of Scotland Rising in the hills in the west of Perthshire, it flows across hat county to the Firth of Tay, near Perth It is in long and on it are Dunkeld and Perth Its tributaries include the Earn, Limond, Tummel, Garry and Isla It is famous or its salmon Loch Tay is a lake in Perthshire t is 14 m long and is visited for the fishing the Firth of Tay is crossed by a railway bridge, he property of the LNE Rly The first was opened in 1878, but was destroyed by a torm, Dec 28, 1879 The existing bridge, wer 2 m long, was built between 1882 and 1887

Taylor Joromy English divine Born in Cambridge, August 15, 1613, he ntered Caius College as a sizar at 13, graduated t 18, and was ordained at 21 In 1638 Bishop fusion made him rector of Uppingham, and fter many vicissitudes he was made Bishop of Down and Connor at the Restoration led dat Lisburn, August 13, 1667 Coleridge alled him the most eloquent of divines, if not the finest examples of devotional literature

Taylor Tom English playwright and independent of the surplement in a secondary school He must be able to give special instruction in one or more subjects of the school curriculum, while be able to give special instruction in one or more subjects of the school curriculum, while being ready to take part also in the general work of the either wrote or adapted more than of plays among which were Still Waters Run Deep, The Ticket o' Leave Man and Our American Cousin In 1874 he succeeded Brooks as editor of Punch He died in Wandsworth, July 12, 1880

Taymouth Name of a castle in Perthappear the union of the River Tay with the loch

of that name Until 1921 it was the seat of the earls and marquesses of Breadalbane

Tayport

Burgh and port of Fifeshire
It is on the south side of the
Firth of Tay, 4 m. from Dundee, with which
It is linked by ferry It has a station on the
LNE Riv The industries include linen
and jute mills Pop (1931) 3164

Table 1 mills Georghi Vasillevitch Rus-

Tchitcherin Georghi Vasilievitch Rus-He was born in 1872, of a noble family, but after leaving the university became a revolutionary, and was banished He was imprisoned in England during the war, and on his return to Russia in 1918 he succeeded Trotzky as Foreign Commissar His health broke down in 1928, and except for occasional visits to Moscow he lived aboved major in Gormany, until Lennary

and except for occasional visits to Moscow he lived abroad mainly in Germany, until January, 1930, when he returned to Russia

Tea The prepared leaf of the plant Thea (Camellia) sinensis, grown in China for centuries, but only known in England since 1645, when the Dutch introduced it, At first it was infused and kept in barrels like beer The young leaves are picked, and spread on trays to wither, and then rolled They are then spread in a moist, fermenting room, and afterwards "fired," (passed on trays through hot-air chambers) sorted, and again fired

India and Ceylon export about two-thirds, and China one-third of the tea drunk in the British Isles, which are the largest tea-consumers in the world London is the chief teamarket and controls prices Tea growing is an important industry in India and Ceylon Teaching as a Career The work of

Teaching teaching offers an attractive career for both men and women The salary is reasonably good, the hours are not over long, the holidays are longer than in most occupations, and teachers who work in schools aided or maintained from public funds are entitled to a pension at the age of sixty, provided they have spent not less than thirty years in teaching

The best preliminary preparation is a good secondary education, followed by a university course An intending teacher is eligible for a government grant which will pay the cost of tuition and provide a contribution towards maintenance and lodging After a degree is obtained, a further year is spent in professional training, either in a university department of

training, either in a university department of education or a training college
Another plan is to enter one of the training colleges provided by municipal authorities or by such bodies as the Church of England or the Wesleyans Here the student takes a two-year course aided by government grants, and prepares for an examination conducted by university examining bodies, but not leading to a decree Success in this examination entitles degree Success in this examination entitles the student to rank as a certified teacher
Usually the holder of a degree may hope for employment in a secondary school He must

TEETH

For certificated assistant mistresses the starting salary is from £150 to £180, rising to £246 or £324 Head teachers receive higher salaries according to the locality and size of school The salaries of an average London headmaster and headmistress are £500 and £400 respec

tively, though they may rise to £606 and £486 In state aided secondary schools graduate assistant masters in London begin at £295 a year and rise by annual increases of £15 to £528 a year In the provinces the corresponding figures are £244 and £480 maximum Graduate assistant mistresses in London begin at £204 rising to £420 and in the provinces at £216, rising to £384 For headmasters the minimum salary in secondary schools is £600 and for head mistresses £500, and the maximum may be over £1000 a year for an important school Payment in privately owned schools is on much the same scale Salaries in state aided schools were subjected to a 10 per cent. reduction in 1931, but half was restored in 1934, and the Burnham Committee resolved that as from July, 1935, salary cuts should not affect annual superannuation allowances beyond

2 per cent Teachers in state schools may receive an annual pension depending upon the final salary and the number of years of service A cash payment is paid in addition For example, a teacher who has served for forty years will receive on retirement a pension equal to half of the average annual salary during the last five years and a cash payment equal to one and a third times that salary Ratirement is antiqual at the area of start and a cash payment. Retirement is optional at the age of sixty and compulsory at the age of sixty five In the best privately-owned schools there are also

systems of superannuation

Teachers who hold the qualifications de cribed above are eligible for admission to the Official Register of Teachers on payment of a small registration fee This entitles them to membership of the Royal Society of Teachers, and the letters MRST indicate definite professional standing, since the Register is authorised by Parliament and maintained by a representative Council of Teachers

Teak Asiatic timber tree (Tectona grandis) an immense height and bears panicles of small white flowers. The wood extremely hard and

durable is used in shipbuilding

Teal Small duck (Querquedula crecca) of Europe and Asia It is common throughout the year on British inland waters, and many migrants reach British inland waters, the male has a chestaut head, marked with a green patch behind the eye, black or buff rump and tail and black and white wing markings. The bill is black and the legs grey The total length is 14 to 15 ins. The total length is 14 to 15 ins

Teasel (Dipsacus sylvestris) Common British biennial plant of the order Dipsaceae The first year it bears only radical leaves which form a large rosette flat upon the ground The flower stems in the second year attain a height of 5 or 6 ft They are rough and spiny and bear cylindrical flower heads of purple flowers. D fullonum, a cultivated variety, is used by cloth manufacturers for raising the nap of cloth

 $\Gamma$ echnical Education

Special training in the arts or sciences under lying a trade or profession, usually taught in a technical school It has resulted from changed conditions of production whereby the master has no time to instruct his apprentice himself

In technical schools there are courses in pracin technical schools there are combaca in plac-tical instruction for every kind of trade, and in clerical and linguistic work for commercial purposes With these may be compared the continental trade schools (e a Li Coole Dideral at Paris) Modern types are rapidly conforming with commercial conditions, and are attracting greater numbers of students By the Smith Lever law, the U S A. have increased facilities particularly for agricultural instruction

Teck German family The name is taken from a castle in Württemberg In 1871 Francis, a prince of Württemberg, was made Duke of Teck. He married Mary Adelaide, a daughter of the Duke of Cambridge, and settled in England He died Jan 20, 1900, and the duchess died Oct. 27, 1897 Their and the duchess died Oct. 27, 1897 Their family consisted of a daughter, Mary, who married King George V, and three sons Adolphus, created Marquess of Cambridge in 1917, Francis, who died in 1910, and Alexander, created Earl of Athlone in 1917 In 1917 the family name was changed to Cambridge

Teddington Urban district of Middle sex It stands on the Thames, and is 13½ m from London by the S Rly The National Physical Laboratory has been here since 1902 The authority of the Port of London ceases at Teddington, and that of the Thames Conservancy begins Pop (1931) 23,362

Te Deum Hymn or psalm used in the services of the Christian Church Its authorship is unknown, but it was compiled in the 5th century or earlier It begins with the words Te Deum Laudamus (We praise Thee, O God), and is in the prayer book of the Church of England for use at morning prayer Of the tunes composed for it the most famous is by Handel

Tees River of England It rises on Cross fell and flows east, separating both Yorkshire and Westmorland from Durham. The upper valley of the river is called Teesdale It flows by Middlesbrough and Darlington and other industrial towns It is about 80 m. in length and is navigable to Stockton

Teeth Teeth consist of three substances, enamel and bone, with nerves and blood vessels. The main structure of the tooth is composed of dentine, a hard clastic substance, the exposed part above the gum is covered with enamel, while the surface of the root is covered with bone The tooth is formed chiefly of calcium phosphate In man there are 16 teeth in each jaw, arranged symmetrically eight per side These consist of four incisors, two canines, four bicuspids, and six molars Teeth develop in two sets the milk teeth and the permanent There are milk teeth and the permanent There are twenty milk teeth, ten in each jaw, which drop out in the sixth, seventh and eighth year The first permanent tooth follows on immediately, and others develop until the wisdom teeth manifest themselves about the eighteenth year, or occasionally later, in some cases they never appear at all

Teething begins normally about the 6th month Some bables become quite feverish with toething, and if they seem really ill a doctor should be consulted. The bowels should be kept open and plenty of water and diluted milk given, but the child should not be forced to eat. He should be given a bone or ring to

chew

In case of toothache the only adequate treatment is to have the tooth seen to by a

dentist, and this should be done at the first hint of trouble Acute pain may be relieved by rubbing the gum with oil of cloves or brandy

Teheran (or Tehran) Capital of Persia.
About 70 m S of the southern shore of the Caspian Sea, it occupies a plain formed from a gravel deposit sloping from the foothills of the Elburz mountain range. It is surrounded by walls, and has an inner circumforence of about 74 sg. m. It is the contract ference of about 7½ sq m It is the centre of a carpet industry and has been the capital since the last quarter of the 18th century 350,000

Teifi River of Cardiganshire It rises in the north of the county, and flows S W to enter the sea at Cardigan, where it forms an estuary It is 50 m in length, and for part of its course divides Cardiganshire from Carmarthenshire and Pembrokeshire

Teign River of Devonshire It rises on Dartmoor and flows for 30 m. to the English Channel, which it enters at Teignmouth Newton Abbot is on its banks

Teignmouth Urban district and seaside resort of Devonshire It is 15 m south of Exeter and 189 from London by the GW Rly China clay is shipped from the town, which stands at the mouth of the Teign Teignmouth had an interesting history in the middle ages, when it was a flourishing port Pop (1931) 10,019

Telégraphic instru-Telautograph Telegraphic insura-Elisha Gray for transmitting and recording a message in facsimile In Gray's instrument a series of intermittent electric currents act upon electro-magnets causing the movement of a stylus or writing pen in a distant station, thus making a copy of a written message In another form of telautograph devised by J H Robertson, the strength of the current is varied according to the curves of the writing, this varied current acting upon the stylus

Electrical apparatus de-vised to transmit messages Telegraph to a distance The first needle telegraph was patented by Cooke and Wheatstone in 1836, and in the following year tried successfully between Euston and Camden Town Stations In this form of the instrument a magnetic needle at the receiving station is deflected by an electric current sent by a conducting wire from the transmitting station. The Morse telegraph involves the principle of the electromagnet and is in general use for most land-lines The Morse code is used for telegraphic messages, the dots and dashes being repre-sented by short or long periods during which the current is kept on.

Recording is made automatically on a tape or by means of a perforated ribbon, and in one type of instrument by printing the message In submarine telegraphy a siphon recorder invented by Lord Kelvin acts as a receiving instrument and marks the message upon a travelling tape in a series of irregular waves

The wireless telegraph (qv) is based upon similar principles, the messages being transmitted by electro-magnetic radiations.

A method has recently been developed by which photographs can be transmitted by telegraph, the picture being broken up into

dots during the process

Tel-el-Kebir Village of Egypt. Near
of a battle between the British and the
Egyptians on Sept 13, 1882 There Arabi
Pasha and his army, 38,000 strong, had en-

trenched themselves Under Sir Wolseley a British army of 15,000 men marched silently across the desert by night and in the morning the Highland brigade led the attack on the enemy position which was over two miles long In an hour or more the Egyptians had long In an hour or more one again fled The British losses were under 500

Telemachus in Greek legend the son lope He lived with his mother during his father's absence, and when he was 20 years old he set out to find the wanderor He returned to Ithaca after his father's return, and assisted him to kill the suitors of Penelope

Telemeter Instrument for determin-ing distances in surveying and in gun practice There are a number of and in gun practice types, many coming under the head of range finders. In most cases they are based upon the angular measurements of a triangle whose base is the instrument and whose apex is the object whose distance is to be measured

Teleology Philosophical term for the causes It is discussed in Kant's Critique of

Judgment Telepathy Transference of thought The earliest recorded experiments in telepathy were conducted by Sidgwick in 1871, while among later experimenters may be mentioned Sir Oliver Lodge, yet, to date, the successes have not greatly exceeded those which might be ascribed to chance Sir W Crookes has attempted to explain telepathy as a series of ways while explain telepathy as a series of waves, while others have suggested telepathy to be responsible for mediumship

Telephone Electrical instrument by which sound is transmitted and reproduced at a distance. The first telephone capable of reproducing speech was invented by Graham Boll and exhibited at the Philadelphia Exhibition in 1876 In this inranadeipaia Exhibition in 1876 In this instrument a circular diaphragm of soft iron was made to vibrate by the sound waves impinging upon it in front of the poles of an electro-magnet, whereby a variable current was generated By a reverse action in the receiver the diaphragm was set vibrating, reproductive the order leaves and variety the professional variety of the professional variety of the professional variety. ducing the original sound waves

Improvements were made by Edison, and a carbon transmitter or microphone was devised by Prof Hughes In the modern type of microphone the action depends upon the varying compression of carbon granules between two earbon discs caused by the vibrations set up by the sound waves

The wireless telephone (q v ) is a development on similar principles, but using electro-magnetic radiations for transmission

Telephotography Long distance photography The photographing of distant objects by ordinary photographic methods is rendered unsatisfactory by atmospheric moisture which diffuses the rays of visible light and produces the blurred effect of normal vision Long-distance photography, however, can now be achieved, with or without the use of a telescopic lens, by using only the infra red rays, which are less easily diffused and so travel in a more direct line than visible rays from the object to the lens, thus giving a sharper definition For this purpose a special filter is used which cuts out all but the infra-red rays, while the exposure is made on a plate particularly sensitive to these rays In this way details of landscape, etc. which are obsenred unsatisfactory by atmospheric moisture which details of landscape, etc., which are obscured

by haze to normal vision, can be rendered clearly in a photograph

Telescope optical instrument for view simplest form of astronomical telescope consists of two lenses placed one at each end of a tube one of these, the objective, is either a simple convex lens or a compound achromatic lens which receives the rays from the distant object, bringing them to a focus and forming a small inverted image The other lens, the eyepiece, may be a simple lens or a system of two lenses which presents a magnified and erect image to the observer

In the reflecting type of telescope a slightly concave mirror at the end of the tube forms the objective, the rays from the open end of the tube being reflected either to one side by a secondary mirror through a lateral eyeplece, or by an aperture in the mirror to a terminal eyeplece Opera and field glasses are binocular modifications in which there are two

parallel telescopes

Television means of representations of events at the time they occur. One successful method breaks up the whole scene into a series of points of light, which by means of photo electric cells, are converted into electric currents, amplified and transmitted. At the receiving end, the electric signals are converted into light the varying intensity of which, when symmetrically arranged as at the transmitting end, gives a representation of the scene. The greatest principles required for the

end, gives a representation of the scene
The greatest principles required for the
accomplishment of television were known as
long ago as 1884, but success was not achieved
till the perfection of devices for amplifying
currents J L Baird, in Britain, and C F
Jenkins, in America, exhibited television
apparatus in 1925, in 1927 the American
Telephone and Telegraph Co gave a public
demonstration over a long distance, and in
1928 Baird transmitted images across the
Atlantic, and in colour The B B C began
broadcasting television programmes in 1932
and discontinued in Sept, 1935 But the
Television Committee, appointed in Feb, 1935,
arranged that regular transmission under the
aegis of the B B C should start early in 1936
from Londons first television station at
Alexandra Palace

Telford Thomas Scottish engineer He was born in Eskdale, Aug 9, 1767, and became a stonemason In 1783 he moved to London, and in 1787 secured an official position as superintendent of the roads in Shropshire This led to his appointment as engineer for the suggested Ellesmere canal He was chosen by the Government to report on the Scottish roads, and became engineer for the Caledonian Canal In addition, he was responsible for many hundred miles of roads numerous bridges and work on the harbours of some Scottish scaports He died Sept. 2, 1834, and was buried in Westminster Abbey

1834, and was buried in Westminster Abbey

Tell William Swiss legendary here Ac
cording to tradition he was instrumental in Nov., 1307, in rescuing his country
from the tyranny of Austria, whose duke,
Albert II, wished to annex certain cantons
The story of how Tell was compelled to shoot
an apple from his son's head how he subse
quently shot Gessler, the Austrian vogt, or
steward and how this led to a rising of the
people is accepted as a myth Schiller made
the story into one of his finest plays

Tell el-Amarna Ancient city of Egypt. It stoo

on the right bank of the Nile and was built by Akhenaton (q v) as the seat of government in place of Thebes Excavations here have brought to light important relies of Egyptian civilisation, including 300 clay tablets in cunciform, which contain correspondence be tween Akhenaton and his governors in Pales tine

Tellurium Non metallic element having the symbol Te and atomic weight 127 5 Tellurium, though resembling a metal in its silvery lustre, is placed along with sulphur and selenium It occurs rarely in the pure state and is found chiefly as a telluride in combination with bismuth, gold, silver, etc, in the minerals sylvanite and tetradymite.

Telpherage System of electric traction on a ropeway for transport of ore or other material over rough country. It consists of a track formed of a strong steel cable supported at intervals by posts. On this cable run the wheels of small suspended trolleys which are propelled by a current from an overhead wire

Tempe Valley of Greece It is in the north of the country, between the mountains of Olympus and Ossa, and is now called Lykostomo, or "wolf's mouth "The River Peneus flows through it To the ancients it was known for its beautiful scenery and in it Apollo was worshipped.

Tempera Ancient method of painting, the forerunner of fresco. The medium used is some kind of sticky substance with which the colour can be mixed and the whole then applied to the stone surface. Yolk of egg was one of the most usual mediums.

Temperance at reducing or ending the consumption of aloohol as a beverage. It originated in 1826 and seeks to attain its pur pose by the advocacy of total abstinence, by spreading information concerning the effects of alcohol as a narcotic drug, and by political action. The Report of the Royal Commission on Licensing, issued in 1931, was received with satisfaction by the leaders of the movement, at least so far as its findings are concerned, though disappointment was expressed at its recommendations for legislative reform. See Prohibitrion

Temperature Thermal condition Concoldness of a body that determines the transfer of heat energy to other bodies according to the second law of thermodynamics, always to those of lower temperature Two bodies are at the same temperature when the mutual interchange of heat is the same, but if one body transmits more heat than it receives from the other, the first body is said to be at a higher temperature The thermal range is measured in units or degrees of temperature by means of a thermometer

As regards the human body the temperature in health is about 98 4° F, but in fevers may rise to 106° F or higher, while in collapse it may fall to 80° F or even lower Only a limited range of temperature of the air is endured by the body in comfort, the normal condition for a room being about 62 5° F

inheled to shoot if or a room being about \$v 2 \cdot F\$ is now bei

ranging from pale yellow to deep blue in the lowest temper

Tempest Marie Susan English actress July 15, 1866, and educated at the Ursuline convent at Brildonck Belgium Her first stage appearance was as Fianetta in Boccaccio She has toured in Canada, the United States, Australia, New Zealand, South Africa, Peking and Manille, and has produced plays by Arnold Marie Susan English actress and Manilla, and has produced plays by Arnold Bennett, Harold Chapin, Jerome K Jerome, Henry Arthur Jones, Robert Marshall, etc She gave up musical plays in 1900, and turned to comedy, and in recent years has appeared in The First Mrs Fraser (1929), To morrow will be Friday (1932) and Theatre Royal (1934) The subtles of her stem Adher was calabrated to jubilee of her stage debut was celebrated in 1935

Templars See Knights Templars

Template Pattern in wood or metal used as a guide in the making of mouldings, etc., or of parts of machinery showing the position of the holes for rivets or bolts and other details also the stone block in a wall to hold the end of a girder

In a wall to hold the end of a girder

Temple Bullding for worship It origin ally fulfilled the need for a shelter for a deity, and was a stage onward from open-air worshipping places. The earliest Jewish temple was that built by Micah (Judges xvii, 5), but the most famous was that of Solomon. This consisted of three parts, the temple proper, a porch in front of it, and a lower building surrounding the other three sides. Egyptian temples, which were on a simpler but no less imposing plan, reached their apogee in the magnificent sanctuary of Karnak. Then follow Greek and Roman temples, usually rectangular in form. The Temple Church, in London, one of the five round churches in England, was built by the Knights Templars. Knights Templars

Temple District in London It lies between Fleet Street and the Thames Embankment, and is so named because Thames Embankment, and is so named because it was once the property of the Knights Templars It now belongs to the two legal societies, the Inner Temple and the Middle Temple, both of which have the right to call students to the bar The buildings include the two halls, that of the Middle Temple dating from 1572, the libraries and the chambers in the various squares and courts, cg, Fountain Court, Pump Court, etc. The finest building is the church potable for its Norman doorway. Court, Pump Court, etc The finest building is the church notable for its Norman doorway, its figures of the Templars, and its marble pillars Its musical services are famous In philars its musical services are famous in the gardens an annual rose show is held Temple Bar, the western boundary of the city, is in Fleet Street The old bar is now in Theo-bald's Park It is a gateway designed by Wren, replacing an old one on which the heads of traitors were exposed
Temple Frederick

Temple Frederick English archbishop Born Nov 30, 1821, in the Ionian Islands, he was educated at Blundell's School and Balliol College, Oxford He was ordained in 1846 and took up educational work In 1857 he was appointed headmaster of Rugby, where he remained for 12 years In 1869 he was appointed Bishop of Exeter, in 1885 Bishop of London, and 1896 Archbishop of Canterbury He died Dec 23 1902

of the Stamp Act in 1766, and, together with his brother, George Grenville, bitterly opposed him afterwards He retired from public life in 1770, and died Sept 12, 1779

Temple Sir William English diplomate and author He was born in 1628 and educated at Cambridge.

London in 1628 and educated at Cambridge In 1668 he negotiated the Triple Alliance between England, Holland and Sweden to resist the designs of France on the Netherlands, a treaty nullified by Charles II by his secret a treaty nullified by Charles II by his secret Treaty of Dover (1670) He became ambassador at the Hague in 1668, and negotiated the marriage of William of Orange and Princess Mary He is known by his Memours and various essays He died Jan 27, 1699

Temple William English archbishop Born Oct 15, 1881, a son of Frederick Temple, then Bishop of Exeter, he was educated at Rugby and Balliol College, Oxford He was fellow and tutor of Onen's

Oxford He was fellow and tutor of Queen's College from 1904 to 1910, when he became headmaster of Repton School. In 1914 he became Rector of S James's, Piccaddily, London In 1919 he was made Canon of West-minster in 1920 Bishop of Manchester, and in 1928 Archbishop of York.

Templemore Urban district and

Templemore Urban district and town of Co Tipperary, Irish Free State It is 70 m from Dublin, on the GS Rlys, and is situated on the Suir The town has an agricultural trade Its name is due to the fact that the Templars once had a castle here Pop (1926) 2233

Temple Newsam It is 3 m from the city proper Here in the 12th century the Templars had a house, believed to be the original of Templestowe in *Inanhoe* In 1922 Viscount Irwin presented the house and much of the estate to the city of Leeds The house, a Jacobean one and the birthplace of Lord Darnley, husband of Mary Queen of Scots, contains some fine political.

Tempo Rate of a movement of a piece of music, eg, grave (very slow), lento (slow), largo or adagio (leisurely), andante (walking) (walking), allegro (quick), presto (rapid)
These words are often qualified by molto
(very), non troppo (not too much) "A (very), non troppo (not too much) a tempo" indicates resumption of a former speed

Tenacity Term in physics applied to a tensile or stretching force tending to over-come the cohesion of the component particles. Usually the tenacity of a metal or other substance is decreased by a rise in temperature or by the presence of impurities

Tenant One who holds or occupies land or buildings which belong to another, called the landlord For this he pays rent and his tenancy is protected under the Law of Property Act (1925), the Landlord and Tenant Act (1927), the Rent Restriction and other acts See Landlord, Rent, Repairs Tenbury Market town of Worcestershire It stands on the Teme, 22 m from Worcester and 149 from London, by the GW Riv There are mineral springs and the town is sometimes called Tenbury Wolls.

and the town is sometimes called Tenbury Wells.

S. Michael's College, founded in 1857 for the study of church music, is 2 m distant

Tenby Borough, market town and pleasure resort of Pembrokeshire It is 257 m from London by the GW. Rly, and 9 from Pembroke There is a harbour for the fishing Objects of interest are the walls of the ald fortifications, and the Temple Richard Grenvillo-Temple, first It is 257 m from London by the GW Rly, and 9 from Pembroke There is a harbour for held various public offices between 1752 the fishing Objects of interest are the walls and 1761 under his brother in-law, Pitt (Earl Chatham) He broke with him on the question

popular watering place, and round is some beautiful scenery Pop (1931) 4108

Tench Fresh water fish (Tinca vulgarıs) of Europe and certain parts of Asia Minor It grows to a length of 16 in and a weight of 4 lb A fish of quiet waters, it frequents the muddy had and nasses the winter buried them muddy bed and passes the winter buried there The colouring is usually deep olive above with grey beneath There are two barbels at the head. The flesh is somewhat tastcless, and the fish requires prolonged washing to render it fit for cooking

Ten Commandments See Doca

Tendon Fibrous cord, attaching the regulates The name is frequently applied to those particular tendons which are thick and rounded and attached to round muscles when broad and flat they are known as aponeur Tendons are white and glistening, and consist of fibres joined by cellular tissue

Tendril Botanical term for spiral thread like growths which enable certain species of plants to attach themselves to an adjacent support Some tendrils, as in clematis vitalba or traveller's joy, are extensions of the leaf stalk and are hard and wirelike. Those of the white bryony are slender colled shoots which support the trailing stems and enable them to twine in all directions. Other forms are modifications of a part of the leaf blade, or of the leaf blade itself

Tenebrae Service in the Roman Catholic Church It is said or sung on the last three days of Holy Week and celebrates the darkness that fell on the earth at the Crucifixion One by one the lighted candles are extinguished until only one remains alight This is then hidden in order to be brought forth

as a symbol of the Resurrection.

Tenedos Island of Turkey It is in the Acgean Sea and covers 16 sq m Here, according to Homer, the Greek fleet anchored during the slege of Troy The island became famed for its wine and its pottery It became a Turkish possession and so remained until surrendered to Greece in 1000 mained until surrendered to Greece in 1920

By the Treaty of Lausanne in 1923, it was re turned to Turkey Pop 4000 Teneriffe Largest of the Canary Islands belonging to Spain capital is Santa Cruz and Orotava is another important town Its scenery and mild another important town its scenery and mild climate commend it to visitors. The centre of the island is occupied by the extinct volcano Pico de Teydo, whose highest point, El Piton is 12 200 th high. It has a broadcasting station (41 6 M 0 05 kW) Pop 110,000 See Canary

İblandb

Family of Flemish painters of Teniers the 17th century David Teniers the Elder was born at Antworp in 1582, and died there in 1649 He was a pupil of Rubens, and his canvases are either mythological or rustic in subject His "Playing at Bowls" is in the National Gallery David Teniers the younger was born at Antwerp Dec 15, 1610, and died at Brussels April 25 1690 He was a and died at Brussels April 25 1690 He was a greater painter than his father His greatest picture, "Meeting of the Civic Guards is at Leningrad while his 'Village Fête' is in the

National Gallery London
Tenicon Thomas English prelate Born Tenison at Cottonham, Cambridgeshire, Sept 29 1636, he was educated at Norwich and Corpus Christi College, Cambridge In

1680 he was presented to the living of St. Martin in the Fields where he endowed a school for boys In 1691 he was appointed Bishop of Lincoln and in 1694 Archbishop of Cartonham. Canterbury He crowned Queen Anne and George I, and died Dec 14, 1715

Tennant Sir Charles British merchant. 1 ennant Born in Glasgow, Nov 4, 1823, he was educated there, and entered his grand-father s chemical works at St Rollox By his skilful management of this and other industrial ventures he amassed a big fortune He became a great patron of the arts and was made a trustee of the National Gallery in 1894 His private collection was opened to the public in the Tennant Gallery He sat in the House of Commons as a Liberal from 1879 86, but later joined Chamberlain as a tariff reformer He was made baronet in 1885, and died June 4, 1906 His grandson now holds the title of Lord Glenconner, and his daughter Margot married H H Asquith (qv)

Tennessee State of the United States It is wholly inland, in the south central part of the country, and covers 42,000 sq m Nashville is the capital, but Memphis is the largest city It produces large crops of cotton and tobacco and much coal is mined Extensive areas are covered with forest The state is governed by a legislature of two houses Pop (1930) 2,616,556

houses

Tenniel Sir John. English carlcaturist. he became world famous through his long connection with Punch (1850 1901), for which he The last of drew the principal weekly cartoon these appeared in Jan, 1901. He also illustrated Alice in Wonderland, Through the Looking Glass Lalla Roof h and the Ingoldsby Legends, All his illustrations are remarkable for their originality, their finish, and their accurate, graceful drawing He was knighted in 1893, and died Feb 25, 1914

Tennis Ball game It is played in a walled court divided by a net, and from it the modern game of lawn tennis has developed It was played in Italy, France and developed It was played in Italy, France and England in the 16th century, when courts were built at some of the palaces Henry VIII, who built one at Hampton Court, and later Henry IV of France, both played the game The game is still played to-day, and there are courts at some of the London clubs, at Oxford and Cambridge and at one or two

Oxiora and Cambridge and at one or two country houses On three sides of the court there is an inner wall, with a roof sloping from the outer wall, called the penthouse On the front wall is a buttress, called the tambour In one of the end walls is an opening, called the dedans, and in the other a smaller opening, called the critical all these have their rest in called the grille All these have their part in making scoring points The sides are called the hazard side and the service side respectively The floor is of stone or composition Both balls and rackets are much heavier than those used in lawn tennis

There is an amateur championship at tennis, and its holders have included such noted players as J M Heathcote Alfred Lyttelton Viscount Grey, and Jay Gould Peter Latham is per haps the greatest professional player of the game Matches are played between the older

universities

Tennyson Alfred, Baron. English poet, Lincolnshire, Aug 6 1809, the third son of the rector and educated at Louth Grammar School and Trinity College, Cambridge In 1826 Poems by Two Brothers (Alfred and Charles) gave an inkling of the poet's great future His first publication, Poems, Chiefly Lyrical (1830) elicited both praise and derision, but a succession of beautiful lyrics during the next 10 years made his place secure, and in 1850 he succeeded Wordsworth as poet laurente In this year appeared In Memoriam, occasioned by the death of his friend Arthur Hallam

The Idulls of the King appeared in instal-

The Idylls of the King appeared in instalments in 1859, 1870, 1872 and 1885 Of his several plays, Becket is perhaps the finest His last poem, Crossing the Bar, would alone entitle him to immortality In 1884 Tennyson was created Baron Tennyson of Freshwater and Aldworth He died Oct. 6, 1892, and was burded in Westmington Abbar.

buried in Westminster Abbey

Tenor Third of the four parts of harmonised music, and the highest range of the adult male voice, the compass being normally from C in the second space of the bass staff to A in the second space of the treble staff

Tension Term applied when a body is subjected to a state of stretching or straining, resulting in an alteration of The series of its original form or volume forces causing this tension or strain is termed a stress, and this always acts either in a pulling or pushing direction

Tentacle An elongated arm proceeding retremity of a number of lower animals. It is used for gripping or for exploring The is used for gripping or for exploring. The tentacles of an octopus possess great power owing to the suckers upon then

Tenterden Borough and market town of Kent, 62 m from London, on the S Rlv At one time it was a Cinque Port, but the sea has receded It is an agricultural town with fairs and markets, and has associations with Ellen Terry Pop (1931) 3473

Charles Abbott, appointed Lord Chief Justice in 1818, was made a peer as Baron Tenterden in 1827 He died Nov 4, 1832

Terebene Colourless liquid consisting of a mixture of terpene, dipentone, and other hydrocarbons It is prepared by treating turpentine with sulphuric acid followed by distillation Terebene has an odour resembling pinewood, and is used as an antiseptic and deodoriser A painters' drier called terebine is a mixture of turpentine, linseed oil and metallic salts

Terebinth Tree, also known as Chian turpentine (Pustacia terebinthus) Belonging to the order Anacardiaceae, it is a native of southern Europe and the Levant An oleo-resin, Chian turpentine which exudes from the excised trunk and hardens on exposure, is used in medicine in liniment form

Teredo Genus of molluses. They are of ships, piers, etc. The small annular shell is open at each end and the molluses establish themselves when small in the timber, perforating it in numberless directions by means of two small valves The common ship worm is Teredo navalıs

Terence Latin poet Publius Terentius
Afer was born at Carthage in
195 Bo He was a slave, but his remarkable
talents gained for him his freedom His chief 195 B o He was a slave, but his remarkable talents gained for him his freedom His chief comedy was Andria, which was followed by five others He was fortunate in the protection of Scipio the younger He died in Greece in 159 B o

Teresa Christian saint She was born in Castile, March 28, 1515, the daughter of a Spanish noble, Alphonsus de Cepeda She early entered the Carmelite Order, and lived to found 32 convents She left an autobiography which is a Spanish classic She died at Alba, Oct 4, 1582, and was canonised by Pope Gregory XV in 1622

Term Period of time Lawyers used it in connection with leases which are for a term of years At one time it was used for the sitting of the English law courts, and it is still used for the four periods during which students for the Bar eat their dinners

In educational circles the word still persists At Oxford there are four terms, but two of them, Hilary and Lent, are kept as one, making in practice three, the others being Trinity and Michaelmas At Cambridge and practically all the English universities, colleges and public schools, the terms are Lent, Easter and Michaelmas, or Easter, summer and autumn

Tern Sea bird of the Laridac, or gull family The common tern (Sterna fluviatilis) has a black head and nape of neck, grey back, white rump and under parts, the bill being orange with bluish black extremity, and the legs red The whole length is 14 to 15 in The legs are short, and the wings long and pointed It is a summer visitant to Britain, frequenting inland as well as coastal waters

Terni Nera, 68 m from Rome by railway It has a cathedral and there are remains of a Roman city The river Velino, which falls into the Nera near here, has a famous waterfall, 650 ft high, used for generating electric newer. electric power

Terpenes Series of isomeric hydrocymene They form one of the benzene derivatives, and occur in the essential oils of many plants The principal terpenes are pinene, present in turpentine and the oils of eucalyptus and juniper, limonene, in the oils of lemon and orange, and the solid terpene, camphor

Terpsichore One of the nine muses ing, and she was pictured holding a lyre See MUSE

Terra Cotta Variety of reddish brick-sisting of a mixture of fine clay and sand moulded into the required form, dried in the air and baled at a high temperature. It was used for decorative purposes and statuary by the Greeks and in Italy during the Middle Ages As a mural decorative material, terra cotta became popular in England during the 19th century, as its partially vitrified surface resists atmospheric action well

Terrapin Amphibious tortoise of the family Testudinidae One species, Malacoclemmys terrapm, found in the salt marshes of the eastern shores of N America, is used as food Some terrapms (Cryptoderra) have a snake like neck which is vertically bent on itself when withdrawn within the carapace, others (Pleuroderra) bend the neck laterally for this purpose See Trappose Tuerte. TORTOISE, TURTLE

Skye terrier, short legged, with long body and large ears the small Maltese terrier, and the bull terrier, which possesses many of the qualities of the bull-dog

Territorial Army
It was established under the British Army
Reserve Forces Act of 1908 by Lord Holdane
who made it a self-contained body, with cadets,
officers' training corps, and veteran reserves
The modern army demands a four years
engagement, 14 days' service per year, and
attendance at camp, usually in August The
Territorial Army first served in the War in
Sept. 1914 Its numerical force in 1934 was
198,935 See Army

Territorial Waters surrounding the coast of a state and subject to its jurisdiction. By the Territorial Waters Jurisdiction at the Territorial Waters Jurisdiction at the Territorial Waters of the Terr

Territory Land forming part of a federal state, but not fully organised with state rights, eg, the North West Territories of Canada A territory is usually administered by officers of the federal government

Terror Extinct volcano of Ross Island, and was named after the ship of Sir James Ross, who discovered it in 1841

Terry Dame Ellen Alicia English actress She was born in Coventry Feb 27 1848 making her first stage appearance at the age of 8 Her real début was in 1863, at the Harmarhet, as Gertrude in The Lutle Treasure In 1875 she made a sensation as Portia under the Bancrotts In Dec, 1878, began her memorable association with Irving at the Lyceum After Irving's death in 1905 she continued to act at the Court Theatre under her own management Her stage jubilee in 1906 excited world wide interest In 1925 she was given an OBE She died July 21, 1928 Sir Johnston Forbes Robertson said of her that 'taken all in all she was one of the most remarkable figures in the history of the stage'

Tertiary Geological group of systems of strata Lying above the Cretaceous rocks, it is also known as Cainozole, a term implying that the forms of life present are more nearly related to present types This period is divided into Eccene Oligocene, Miocene Pliceene and Post Pliceene The chimate was mild at first then tropical followed by a cold period and during this age mammals became abundant and diversified in character, finally approaching existing genera

finally approaching existing genera

Tertiary Member of a Roman Catholic order the first being the friers and the second the nuns They were laymen or women who shared in the religious life of the community, but did not live under a rule They are now divided into Regulars leading a fully organised religious life and Seculars living according to the original idea

Tertullian Christian theologian Born about 155 at Carthage,

Quintus Septimus Florens Tertullianus was not converted to Christianity until atter 190 He was the founder of a Christian Latin literature and influenced Cyprian and Augustine, as well as many other early religious writers The unity of the early Church owes much to him He died in 222

Teschen Town of Poland It is about 50 m SE of Troppau, and is situated on the Olsa, a tributary of the Oder Coal is minod, and other industries are tanning, cloth weaving and flax spinning In 1625 the duchy became an appanage of the Bohemian crown, and in 1722 it passed to Austria. In 1920 the Teschen district was divided between Poland and Czechoslovakia The Poles call it Cieszyn and the Czechs Tesin Pop 23,336

Test River in Hampshire It rises in the Southampton Water, which it enters near Totton It is a famous trout stream Its chief tributary is the Anton, and Stockbridge and Romsey are the largest places on its banks

Test Act A measure passed in England in office must take the sacrament according to the rites of the Church of England, once a year After a time it ceased to be enforced, but it was not repealed until 1828

Testament and solemn declaration, nessed and therefore authentic A will is called a testament and the word is used for the two parts of the Bible, the New and the Old Testament See WILL

Tester English coin now obsolete It was coined in the 16th century and was worth about 1s 6d Later the word was sometimes used for a sixpence Another tester is the canopy over a bedstead

Tetanus Infective disease Popularly known as lockjaw it is due to the action of the Bacillus itiani introduced into the body through a wound from infected soil The virus acts specially upon the nervous system causing a spasm of the jaw and other muscles The use of an antitetanic serum has been found of value

muscles The use of an antitotanic serum has been found of value

Tetany Nervous disease connected with the impaired action of the parathyroid glands It occurs in children suffering from rickets or the effects of teething and also in adults weakened by certain diseases or defective hygienic conditions It is characterised by attacks of tonic spasms of the muscles, especially those of the hand or foot.

terised by attacks of tonic spasms of the muscles, especially those of the hand or foot.

Tetbury Urban district and market town of Gloucestershire It is 8 m. from Stroud and 98 from London, by the GW Rly The town has an agricultural trade Pop (1931) 2237

Tetradymite Alternative name for telluric bismuth, a mineral consisting of the tellurice bismuth, accurring associated with gold in N America, Norway and Hungary Tetradymite is found massive, granular or in tabular steel grey crystals showing a metallic lustre In some cases sulphur and selenium also are present.

Tetrarch fourth part. It came to be used for any subordinate ruler, especially for the princes who ruled in Syria when it was part of the Roman Empire There is a reference to Herod the Tetrarch of Galliee in Luke iii

Tetrazzini Luisa Italian singer Born in Florence in 1871, she

studied singing there under Cecherini, and as a haunt of seabirds. The inhabitants are made her debut in 1895 in the Teatro Verdi, engaged in fishing and keeping sheep.

On July 31, 1653, an English fleet, under appearance at Covent Garden in 1907. A Blake and Monk, defeated a Dutch fleet here. wonderful coloratura soprano, she excels in talian opera, her favourite rôles being Lucia and La Sonnambula In 1921 she published My Life of Song In 1933 she visited Britain in the course of a "Farewell Tour"

Tettenhall Urban district of Stafford-shire It is 2 m from Wolverhampton Near is Wrottesley Hall, the residence of Lord Wrottesley Pop 5767

Tetuan City of Morocco It is about more from the Bay of Tetuan, and 21 m from Ceuta Connected by railway and 21 m from Ceuta Connected by railway with the coast and the interior, it is the capital of the Spanish zone Pop 38,000

Tetzel Johann Dominican monk Born the Dominican Order in 1489 In 1517 he bravelled in Germany, selling indulgences to assist Pope Leo X in raising funds for the building of S Peter's, Rome Luther, indig-nant at the procedure, nailed his famous 95 nant at the procedure, named in the thoses on the church door at Wittenberg, combating this abuse. and others Indirectly this bating this abuse, and others Indirect act led to the Reformation in Germany died of the plague at Leipzig on July 4, 1519

Teutonic Order Religious order Together with the remplars and Hospitallers it came into being during the Crusades It owes its origin to some pious citizens of Bremen and Lübeck, who desired to alleviate the sufferings of the troops attacking Acre in 1190 Later it became a newerful instrument for the spread of a powerful instrument for the spread of German civilisation, was suppressed by Napoleon in 1809, but was revived in Austria in 1840

Teviot River of Roundingshife border and on the Dumirlesshife border and River of Roxburghshire It rises flows across the county until it falls into the Tweed near Kelso It passes by Hawick, is noted for its fishing and is 40 m in length The beautiful district through which the river flows is known as Teviotdale

flows is known as Tevlotdale

Tewkesbury Borough and market town of Gloucestershire It is 8 m from Cheltenham and 153 trom London, by the L M 8 Rly, and stands on the Avon near its junction with the Severn An agricultural centre, the town is famous for its abbey church, once part of a Benedictine monastery Tewkesbury is the Nortonbury of John Halifax, Gentleman Pop (1931) 4352

Departs the Wers of the Roses the Bettle

During the Wars of the Roses, the Battle of Tewkesbury was fought near here, May 3, 1471, when the Lancastrians were defeated

Texas State of the United States It is a coastline on the Gulf of Mexico It covers a coastline on the Gulf of Mexico It covers 265,900 sq m, making it the largest state in the union Austin is the capital, but there are many larger places, especially Houston, Dallas, San Antonio, Fort Worth, El Paso, and Galveston The state produces an enormous quantity of cotton, malze, wheat and oats Fruit is extensively grown and there are very productive oil wells It is governed by a legislature of two houses Formerly part of Mexico. Texas was an independent republic. Mexico, Texas was an independent republic, 1836 to 1845, when it became a state of the United States Pop (1930) 5,824,715

United States Pop (1930) 5,824,715

Texel Island of the Netherlands It westerly of the Frislan Islands De Burg is the chief town The northern part is famous

On July 31, 1653, an English fleet, under Blake and Monk, defeated a Dutch fleet here On Aug 11, 1673, there was another fight between the same antagonists The English were helped by the French, but the result was indecisive On Oct 11, 1797, a Dutch fleet was defeated here by Duncan's ships

General name for woven goods l'extiles The raw materials employed may be flax, silk, wool or cotton In Great Britain the principal centres of the textile trade are Lancashire and Yorkshire for cotton and wool Northern Ireland for linen, and certain districts in Scotland, eg, the Hebrides, for special tweeds

Thackeray William Makepeace lish author He wa He was born of Yorkshire July 18, 1811, in Calcutta, of Yorkshire parentage, and educated at Charterhouse and Cambridge He then took up, successively, law, journalism, art (in Paris), and journalism again, and contributed for a time regularly to The Times In 1840 appeared his first book, The Paris Sketchbook He joined Punch in 1842, using both pen and pencil Early in 1847 he began Vaniu Fair, issuing it in monthly parts began Vanily Fair, issuing it in monthly parts
It was finished in July, 1848, Thackeray's reputation was made, and he became the idol of society Pendennis and Esmond quickly folsociety Pendennis and Esmond quickly followed, and he then conducted a successful lecture tour in the United States The Newcomes appeared in 1853, he edited The Cornhill Magazine from 1860 62, his Roundabout Papers appearing in it, and he was engaged on Denis Duval when he died suddenly, Dec 24, 1863 Just as Dickens was a master with his pictures of low life, so was Thackeray supreme in his high life delineations high life delineations

Thais Greek courtesan She is known for her association with Alexander the Great She went with him to Asia, and the legend says she persuaded him to burn the Persian palace at Persepolis Dryden, in Alexander's Feast, describes the incident.

Thaler Old coin of Germany It was first struck in the valley of St Joachim in Bohemia, and was originally known as a Joachimsthaler It was in circulation from about 1520 until the latter part of the 17th century The word dollar is a corruption of thaler The silver thaler had a value of about three shillings

Thales Greek philosopher He was born about 640 BC at Miletus and lived until 550 Regarded as one of the seven wise men of Greece, he put forward the idea that water is the first principle of the universe, everything else being but a variant of it. Although his theory is absurd, he was the first to suggest a scientific explanation of the facts of the universe. He is said to have foretold an eclipse of the sun that took place in 585 BC

Thalia Name of one of the nine muses the muse of comedy, she is usually represented with a comic mask and a shopherd's staff

Thallium Rare metallic element having the symbol Ti and atomic weight 204 39 It is widely diffused in small quantities in iron pyrites chalcopyrites, mica and lepidolite, also as a selenide in certain silver ores It is a soft, heavy, white metal resembling lead in many of its properties, and readily tarnishes on exposure to air

Thame River of England It rises in the Chiltern Hills and flows past

Thame to the Thames, which it enters near Dorchester in Oxfordshire It is 35 m in length

Thame of Oxfordshire It is 41 m from London and 15 from Oxford, by the G W Rly, and is situated on the Thames It is an agri-cultural centre Lord Williams' Grammar School is an old foundation, and the Spread Eagle is a famous inn Near is Thame Park. Pop (1931) 3019

Thames River of England It rises in Cotswold Hills and flows in an easterly direction to its estuary in the North Sea From Lechlade in Gloucestershire to the North it is 250 m long, the last 60 being from London Bridge to the open sea It flows past Oxford, Reading, and other places, and is crossed by a number of bridges, especially in the London area. The lowest is the Tower Bridge Below this it is crossed by tunnels, one being between Greenwich and Poplar, and lower down by ferries at Woolwich and Gravesend The chief ferries at Woolwich and Gravesend The chief tributaries from the north are the Cherwell Thame, Colne, Brent, Lea and Roding, from the south they are the Kennet, Loddon, Wey, Mole, Darent and Medway Canals connect it with the Severn and other waterways At London Bridge the river is 300 yds wide, at Greenwich 800 yds, and at the Nore 6 m

The Thames is tidal to Teddington, and from there to Oxford it is given up almost entirely to boating and angling, although steamers go regularly along it On its banks are many beauty spots, such as Goring and

are many beauty spots, such as Goring and Cliveden Below Teddington it is a commercial river controlled by the Port of London Author It is much subject to floods A good deal has been done to alleviate these, although there were serious ones in London in Jan 1928

Thames River of Canada It rises in the peninsula of Ontario between Lakes Huron and Eric and flows into Lake St. Clair It is 160 m long and on it is the city of London

Thames Town and scaport of New of the North Island, 40 m. from Auckland, with which it is connected by railway. There is a which it is connected by railway There is a little shipping, and in the neighbourhood are gold mines Near the town a river called the Thames, or the Waihi, falls into the bay

Thames Conservancy Body appointed to look after the River Thames. It controls the river from its source down to Teddington The duties include the care of the locks and the prevention of floods. It dates from 1857 Its members are chosen by the county councils and other authorities whose interests adjoin the Thames Serious drought in this area in 1933 and 1934 caused grave concern, and suggestions

and 1934 caused grave concern, and suggestions for a regulated national water supply were brought forward. The offices are in Norfolk Street, Strand, London W C 2

Thames Ditton District of Surrey district of Esher and the Dittons It is 14 m from London by the S Rly, and stands on the Thames The place is an angling centre Page 8450 Sec Esher. Pop 8450 See ESHER.

Thameshaven Seaport of Essex It on the L M.S Rly Developed as a centre for the storage of oil, it has whaves and other accommodation for the landing of the fuel.

Title of honour among Anglo Thane Saxons Originally confined to

personal followers of the king, the honour could be gained by a freeman who acquired 5 hides of land or made 3 sea voyages. A thane was also entitled to sit in the Witan Thanes grew in powers with the kings, but the title lost Thanes grew significance after the Norman Conquest

Thanet District, sometimes called an island, of Kent In the northeast of the county, it is made an island by the River Stour It is surrounded on three sides by the sea, and its prominent headland is the North Foreland On it are Margate, Ramsgate, Broadstairs, and other watering places, as well as Ebbsfleet

Thanet beds is the geological name for the lowest division of the Eocene in Gt Britain It is found in Thanet, and in it are many marine fossils

marine fossils

Thanksgiving Day Hollday in the It began in New England as a thanksgiving for the harvest In the 19th century it was made a general hollday The last Thursday in November was chosen and since 1864 this has been a general holiday

Theatines Order in the Roman Catholic Church It was founded in 1524 by the cleric who afterwards became Pope Paul IV

Theatre Building for public performances The drama originally rose from the choric dances composed in honour of Dionysus The cult of the theatre was very wide spread in Greek and Roman times, and great amphitheatres, capable of seating 40,000 persons, were constructed in the Middle Ages set stages were abandoned for booths and tents, while miracle plays replaced dramas.
The first English theatre was constructed at
Shoreditch in 1576, but theatre construction
and popularity reached its apogee in England in the 19th century. The post war years have seen a marked decline in dramatic activities, amateur and professional, owing to the popularity of the film, which responds to an increased desire for action.

Thebaine Alkaloid also known as paramorphine occurring in minute proportions in opium. When isolated it crystallies in square plates of a silvery colour. In its physiological action thebaine is more like strychnine than morphine, and in its molecular structure is similar to the closely allied opium alkaloid, narcotine

Thebes Ancient city of Boeotia (Greece)
It is said to have been built by
Amphion at whose playing of his lyre the
stones moved into their places
It was the
birthplace of Hercules and Bacchus It appears very early as a flourishing city, with seven gates, the rival of neighbouring Athens In 371, at the Battle of Leuctra, Thebes defeated Sparta and became the foremost city of Greece With the death of Epaminondas, its glory faded, and it was partially destroyed by Alexander in 336

Thebes Ancient city of the Upper Nile, the oldest cities of Egypt it reached the zenith of its greatness in the 18th and 19th Dynasties under Rameses II, when its mammeth build ings and riches were the envy of the world Later, the seat of power moved northward and after the sacking of the city in 668 B c by Assur banipal, it never recovered its former greatness Thobes, the greatest collection of monumental rains in the world, beasts of a giant necropolis, the colossus of Rameses II (58 ft high), the temples of Karnak and Luxor, areas by the method of triangulation

and the colossi of Memnon

Thecla Christian saint She lived at
Iconium in Asia Minor, and was converted to Christianity by the preaching of S Paul She suffered persecution A book of the Apocrypha called The Acts of Paul and Thecla, deals with her career Another Thecla was an English saint who went with St Boniface to Germany

He began King of Burma Theebaw to reign in 1878 He failed to keep his engagements with Great Britain and this, together with some years of bad government, led to war in 1885 After a short campaign the king was deposed, and sent a prisoner to India He died Dec. 16, 1916

Theft General term for robbery, or the act of acquiring property unlawfully In English law it may be burglary, larceny or embezzlement, and the punishment depends upon the nature of the offence and the amount at stake Robbery with violence is punished more severely See LARCENY

Belief in the existence of God, Theism and in His influence upon the world Theism should not be confused with delsm, which admits the existence of God, but denies His revelation in the world Theism corresponds to the Natural Theology of the Romans, and, in its exclusion of polytheism, has been extensively meditated through Cicero was a theist, as were Kant, Hegel (whose theism was impregnated with pantheism) Descartes (who sought God as a Cause), Malebranche, Leibnitz, and others

Themis In Greek legend a wife of Zeus She was the daughter of Uranus and Ge, and was regarded as the goddess of law She bore to Zeus the three Hours and the Later he left her for Hera Fates

Themistocles Athenian general and 514 BC, he became the political leader in Athens after the ostracism of Aristides (482), and induced the Athenians to build a navy and fortify the Peiraens In 480 BC by means and fortify the Ferraeus In 1900 B S In 1900 B of a stratagem, he inflicted a crushing defeat near the isle of Salamis on Xerxes, who had a with an enormous fleet. This victory and others over the Persians made Athens the foremost maritime power of the period Themistocles, however, now lost the confidence of the people, was ostracised, and settled at Magnesia  $(q \ r)$  where he died in 449 B c

Theobald's Park District of Hert-it is It is near Waltham Cross, being 12 m from London, on the L N E Rly Near here Lord Burghley built a fine house which came to James I, who died here in 1625 It was pulled down and sold in the 18th century, and near the site a new house was built between 1765 and 1770 In the park is old Temple Bar In 1931 the house was opened as an hotel or country club

Theoritus Greek poet He was born at Syracuse, and lived first at Cos and then at Alexandria Of his poems 30 called *Idylls* are extant He is the first and the greatest of the pastoral poets, and also wrote epic poems His pastoral poems are farness for passers. His pastoral poems are famous for passages beautiful in idea and perfect in form. They influenced the work of Virgil and have been translated into English

means of the theodolite horizontal and vertical angles are measured It consists essentially of a telescope capable of being rotated in a vertical and a horizontal plane, the movements being read off by means of two graduated circles A compass and a spirit level are incorporated, and the instrument is supported on a tripod

Theodora Roman empress She was wife of Justinian I, over whom she exercised much influence A later Theodora was the much influence wife of Theophilus, and was regent for her son, Michael III in 842

Theodoric the Great. Founder of the about AD 454, he led the East Goths from Pannona over the Alps in 487, defeated Odoscer at Aquileia and Verona, and after the capture of Ravenna in 493 founded the Ostrogoth Empire, comprising Italy, the lands as far as the Danube Switzerland, SE Gaul and Dalmatia. His wise and just rule gave the Dalmatia His wise and just rule gave the country a period of tranquillity and prosperity not enjoyed for centuries, and few autocratic rulers in history have, on the whole, used their powers so well He died Aug 30, 526 As powers so well He died Aug 30, 526 As Dietrich von Bern he figures largely in Germanic legends, such as the Arbelungenlied

Roman The Great Theodosius I. Emperor He born about 346 in Spain In 379 he was offered the emperorship of the East, and for 4 years successfully resisted the oncoming tide of the Goths, who were more and more threatening the very existence of the empire After the death of Gratian and Valentinian II he became (the last) sole ruler, and on the whole ruled wiselv Soon after his death, Jan 17, 395, began the barbarian invasions which eventually led to the overthrow of the empire

Theodosius II, grandson of the above (401-50), succeeded his father, Arcadius, in 408 From 441 the Balkan region was frequently overrun by Attila's hordes, who were sometimes beaten back, sometimes bought off

compiled the Codex Theodosianus

Theology Science of religion, the study of God and man, and their relations to one another Theology may be dogmatic, stating what is taught by the Scripture, exegetical, interpreting the Bible, historical, moral, polemical, metaphysical or practical. The first theologians were the Greek Gnostics, after which may be cited Athanasius, Augustine, apostle of human immortality, Calvin, the father of the Protostant faith, Luther and the leaders of the Oxford Move ment. Among modern tendencies in moral theology are the principles of the German, Barth, which insist upon a greater spiritual reality

Theosophy Religious system The wisdom" and has been applied to various risdom and has been applied to the systems of philosophy and religion, which profess to attain to a knowledge of God by direct intuition. These include the Theoso which profess to attend to a harmonic profess to attend to the Theoso direct intuition. These include the Theoso phical Society (London office, 45 Lancaster Gate W 2), founded by Madame Blavatsky in 1875, which has 400 branches throughout the world. Its teachings, which have close affinity with Buddhism, Gnosticism and the principles of affinity with Buddhism, Gnosticism and Neoplatonism, are based on the principles of

Therm and Re-incarnation (q v)
Therm Term adopted in England for the thermal unit of heat. It is Theodolite Instrument used in land I Hellil the thermal unit of heat. It is surveying for measuring defined as the amount of heat required to raise

1 lb of water through one degree Fahrenheit. The term is also used in connection with the consumption of coal gas for domestic purposes measuring the quantity equal to 100,000 British thermal units

Thermionics Branch of physics deal ing with the emission of electrically charged particles from heated solid matter The thermionic valve, used in wireless telegraphy and broadcasting, consists of a protection of the protection o of a metal filament enclosed in an evacuated tube and heated by an electric current. The pass to another conductor (the anode) only in one direction The valve can therefore be used for rectifying alternating electric currents, and also for amplification and the production of high frequency alternating current, the control being introduced by a third electrode, the "grid"

Thermit Mixture of aluminium powder and a metallic oxide, usually that of iron, used for producing high localised temperatures for welding iron or steel rails, etc. Aluminium has a great affinity for oxygon, and when in contact with an oxygen-carrying substance and ignited usually by means of magnesium ribbon, a violent action takes place with the evolution of great heat Defective castings can often be repaired by the thermit process

the thermit process

Thermochemistry Branch of chemistry dealing with the relation between heat and chemical action. The quantity of heat evolved during chemical action bears a definite relation to the quantity of the elements involved. The study of the subject has had an involved bearing on many industrial reverses. important bearing on many industrial processes

Thermodynamics Section of physical science dealing with heat in relation to mechanical work Thermodynamics owes its inception principally to Joule who first determined the mechanical equivalent of heat, definitely asserting that heat is a form of energy. The first law of thermodynamics states that a definite amount of heat is absorbed for every unit of work done and that a given quantity of work produces a definite amount of heat The second law states that heat energy is transferred always from a high to a low temperature

Thermograph Thermometer which registers a continuous record of the variations of temperature. In one form a strip composed of two metals with dissimilar coefficients of expansion under heat is fixed at one end and connected at the other to a pen marking on a revolving drum Alterations in temperature cause the pen to rise or fall leaving a permanent record

Thermometer Instrument for measuring variations in temperature by the expansion or contraction of a liquid or gas One thermometer in general use consists of a sealed capillary glass tube ending in a bulb and containing mercury in the lower part with a vacuum in the upper portion. The thermometric scale commonly portion The thermometric scale common used in English speaking countries is that of used in English speaking countries is that of Fahrenheit with freezing point as 32 and boiling point at 212°, but for scientific work the Centigrade scale with 0° as freezing point and 100° as boiling point is used everywhere Specially constructed thermometers are em ployed for registering maximum and minimum temperatures for clinical purposes, etc.

Thermopylae (Gr "Hot springs") leads from the north into the south of the leads from the north into the south of the scountry, being between the mountains and the sea on the east coast Here, in 480 BC, about 300 Greeks under Leonidas, King of Sperta, defended the pass against a Porsian army, one of the great teats of antiquity The Persians, by treachery, got to the rear of the Greeks who were all killed. Their famous epitaph may be translated as "Here we lle, Sparta, obedient to the ward" to thy word "

Thermostat Appliance for indicating automatically changes in temperature by the expansion of metals, and used for regulating steam pressures or temperatures in incubators, etc. One type used in some fire alarms consists of a platinum wire, connected with an electric circuit, fused into a thermometer bulb, and another wire into the tube about the normal temperature level On an excessive rise in temperature the mer cury contacts the upper wire, completing the circuit and ringing a bell

Theseus Legendary hero of Attica The son of Ageus, King of Athens, he performed many marvellous feats, freeing his country from robbers and monsters Perhaps the greatest was the slaying of the Minotaur, a monster living in Crete, in the labyrint The Athenians had to pay him a periodical sacrifice of seven youths and seven maldens Ariadne, daughter of King Minos, gave Theseus a ball of string, which he un wound on entering the labyrinth, thus leaving a clue to the exit

Thespis Greek dramatist He lived in regarded as the founder of the drama, as he introduced an actor to assist the chorus in the festivals that were held in honour of Bacchus The actor wore a mask and spoke from the platform, being responsible for the prologue and the dialogue Thus the choral songs of the festival became the drama that was one of the greatest productions of Greece.

Thessalonians Epistles to Two New books They appear to have been written by Paul to the Church at Thessalonica (mod Salonica) not very long after his visit to that place recorded in Acts xvii They are probably among the carliest of his letters Their purpose is to congratulate the Thessalonian Church on its stead-fastness under persecution, to reply to charges made against Paul, and to deel with difficulties about the Second Coming of Christ.

Thessalonica Original name of the town of Salonica (q v) They appear to have been written by Paul to

Thessaly District of Greece In the north of the country, it lies to the south of Macedonia The River Peneus flows through it and it is really a plain about 70 m across surrounded by mountains The Vale of Tempe leads through them to the north

Thetford Borough and market town of Norwich and 94 from London by the L N E Rlv It takes its name from the River Thet, which here falls into the Little Ouse There which here falls into the little cuse. There are remains of two religious houses. There is also a grammar school and a museum It has an agricultural trade and brewing is carried on In Anglo-Saxon times it was the capital of East Anglia and had a bishop whose see was transferred to Norwich To day the Bishop of Thetford is a suffragan of the Pushop of Norwich Pap. (1921) 4097 of Norwich Pop (1931) 4097

Theydon Bois Village of Essex It is on the LNE Rly The church is modern Here are Theydon Garnon and Theydon Mount,

both with churches of interest

Thiepval Village of France It is on Albert It was the scene of flerce fighting during the Great War, especially during the Battle of the Somme (July, 1916), when it was one of the places taken by the Briffsh It has a memorial to the men of the Ulster Division and here in 1932 the Somme memorial

was unveiled by the King when Prince of Wales
Thiers Louis Adolpho French statesman
and writer Born at Marseilles, April 16, 1797 he became a barrister and in 1821 went to Paris, where he soon became a prominent Liberal Between 1823 and 1827 prominent Liberal Between 1823 and 1827 he wrote his famous Histoire de la Révolution Française, and in 1830 helped to found a news paper, the National, which helped to provoke the revolution of that year Elected Deputy for Aix in 1830, he was Minister of the Interior in 1832, and became President of the Council and critical Pairson Minister. Resigning in 1828 and virtual Prime Minister Resigning in 1836, in 1840 he was again President of the Council in 1840 he was again President of the Council and Foreign Minister Exiled for a year after Louis Napoleon's coup d'édat, he returned to politics in 1863 and after the fall of the empire in 1870, he negotiated for peace From 1871 to 1873 he was President of the Republic He died Sept 3, 1877 Thiers also wrote L'Histoire du Consulat et de l'Empire

Third Degree Originally an American slang expression (probably connected with the "Third Degree" in Masonry), it has now come into general use to denote the employment by the police of violence or other forms of physical mal-treatment of a prisoner in order to extort a

confession.

Third Party Term used in English person who is brought into a law suit, but is not a principal It is also much used in connection with insurance against accidents. Since the legislation of 1929 in Great Britain, motorists must insure against risks to third motorists must insure against risks to third parties, i.e, they must not only insure their own lives and property against accident, but also those of any person who is injured by them, such being a third party

Third Republic Republic that has since 1870 The first republic was set up at the Revolution and overthrown by Napoleon the second was set up in 1848 and overthrown

by Napoleon III

Thirlmere Lake of Cumberland It over 3 m in length From it Manchester obtains much of its water supply The water is carried to that city by an aqueduct, 106 m

long Thirlwall Connop English bishop He was born at Stepney, Jan 11, 1797, educated at Charterhouse and Cambridge, where he gained many distinctions, and ordefined in 1827 From 1840-1874 he was Bishop of St Davids He wrote a history of Greece, and in conjunction with his friend, Julius Hare, translated Niebuhr's History of Rome from the German He died at Bath, July, 27th, 1875.

Thetford City of Quebec, Canada It | Thirsk Market town of Yorkshire (WR) is 76 m from Quebec, and is served by the Quebec Central Rly Here are asbestos mines Pop 7886. The River Cod Beck flows through the town, The River Cod Beck flows through the town, as the River Cod Beck flows through the town, the River Cod Beck flows through the town, as the River Cod Beck flows through the Riv which is an agricultural centre Tanning and flour milling are carried on Pop 2755

flour milling are carried on Pop 2755
Thirty-nine Articles Creed of the Church of England The Articles were adopted by the united convocations in 1563 and became law by Act of Parliament in 1571 Since 1604 no change has been made in them The following are the topics dealt with, Articles 1-5, Universally recognised truths of the Christian religion, 6-8, Standards of faith, 9-18, Sin and Grace 19-36, Church and Sacraments 37 39, Civil order Their predominantly negative character as shown in their condemnation of heresy and error is due to the exigencies of the special situation which they were designed to meet and they are not to be interpreted as containing a systematic to be interpreted as containing a systematic statement of Christian doctrine

Thirty Years' War Name given to ried on in Germany between the years 1618 and 1648. The war started through the revolt of Bohemia against the rule of the Catholic Habsburgs The offer of the Bohemian crown Habsburgs The oner of the Bonemian crown to the Lutheran prince, Frederick, Elector Palatine and son-in-law of James I of England, was followed by the defent of Frederick and the seizure of his lands by the Emperor Ferdinand The Protestant princes of Germany and Gustavus Adolphus of Sweden then many and Gustavus Adolphus of Sweden then carried on the struggle for Protestantism against Catholicism, but after the death of Gustavus at Lützen in 1632 the war lost its religious character and became a political struggle between the Hapsburgs and Spain on the one side, and France, who entered it in 1635, on the other The war was ended in 1648, when the Emperor, after suffering defeat, agreed to the terms of the Treaty of Westphalia (q v)

Thisbe Figure in Babylonian legend She is the beloved of Pyramus The story is used by Shakespeare in A Midsummer Night's Dream.

Thiste Name given to many plants with

Thistle Name given to many plants with prickly stems, leaves, etc. There are many kinds and they belong chiefly to the genus carduus and the natural order Compenus cardatas and the natural order Com-positac. Some of the varieties are the spear thistle, specially associated with Scotland, the dwarf thistle, the milk thistle and the musk thistle Another is the field thistle which is very harmful to agriculture. The thistle bears red or purple florets and silky hairs called thistledown are attached to the seeds

thistledown are attached to the seeds

Thistle Order of the Scottish order of knighthood founded by James II in 1687 and dedicated to S Androw Falling into abeyance at the Revolution, it was rovived by Queen Anne Originally it consisted of the sovereign and eight knights The number of knights was raised to twelve in 1703, and to sixteen in 1827 The collar is formed of thistles alternating with sprigs of rue The motto is Nemo me impune lacessit The chapel is in St. Giles', Edinburgh

motto is Nemo me impune lacessit The chapel is in St Giles', Edinburgh

Thomas Called Didymus (the twin) one known as "doubting Thomas," on account of his disbelief in Christ's resurrection until he had received personal proof (John xx. 26-29) According to tradition, S Thomas founded the church in Parthia, going later to India He is commemorated on December 21. He is commemorated on December 21.

Thomas Albert French politician He Marne in 1878 His father, a baker, managed to give Albert a university education. In 1903 he became associated with Jean Jaurès, as assistant editor of L'Humanité. Elected to the Chamber of Deputies in 1910, he became Under Secretary for Armaments in 1915, and Minister for Munitions in 1916 He left politics in January, 1920 to become the first Director of the International Labour Bureau at Geneva, where he worked strenuously for world peace He died in Paris, May 8, 1932

Thomas James Henry English politician Born at Newport, Mommouthshire, Oct 3, 1875, he began life as an errand became a religence of the died in Paris and english politician shire, oct and became a religence as allegary on

I HOHICL Born at Newport, Monmouthshire, Oct 3, 1876, he began life as an errand bov and became a railwayman as a cleaner on the GW Riv In Swindon he came to the front both as a railwayman and in municipal affairs, and by 1910 was president of the Amalgamated Society of Railway Servants He helped to reorganise the National Union of Railwaymen becoming General Secretary in 1911 In 1910 he was elected to Parliament for Derby in the Labour Interest, and has re presented that constituency ever since He was chairman of the Parliamentary Committee of the Trades Union Congress, 1920 21, and president of the International Federation of Trade Unions, 1920 24 In the Labour Government of 1924 he was Colonial Secretary, and in the second Labour ministry of 1929, he was Lord Privy Seal, later becoming Secretary for the Dominions In the crisis of 1931 he joined the National Government again becoming Dominions Secretary, in which capacity he attended the Imperial Economic Conference at Ottawa in 1932 After the General Election of Nov, 1935, he became Secretary of State for the Colonies A popular and racy speaker, he published When Labour Rules in 1902

Thomond District of Ireland, now part of Munster The earl dom of Thomond was held by the family of O Brien between 1543 and 1774, and members of this family were Marquesses of Thomond from 1800 to 1855

Thompson Francis English poet 18, 1859, and educated at Ushan College, he studied medicine at Owens College Man chester for 6 years, but never qualified. In 1885 he left for London where, falling a prey to opium, he became destitute, but managed to write some poems which were highly praised by Browning He found good friends in William and Alice Meynell and in 1893 appeared his first volume, containing his masterpiece, The Hound of Heaven, and bringing him fame He wrote many other poems and contributed prose to the Academy and the Athenaeum He died Nov 13, 1907

Thomson James Wrote under the pseudonym of BV (Bysshe Vanolls) He was born at Port-Glasgow, Nov 23 1834 and was trained to be an army schoolmaster However, his friend, Charles Bradlaugh, induced him to turn to literature, offering him space in his National Reformer In this appeared his most famous work, The City of Dreadful Night, and other powerful but gloomy poems Vanes Story Essays and Phantasics and A Voice from the Night are other works He died June 3, 1882

Thomson Sir John Arthur British naturalist. He was born in East Lothian July 8, 1861 and studied at Edinburgh Jena and Berlin Universities. He

He sur at the Edinburgh School of Medicine, and in 1899 was appointed Regius Professor of Natural 1890 was appointed Regius Professor of Natural History at Aberdeen University, where he remained till his retirement in 1930 His works include Secrets of Animal Life (1919), Science and Religion (1925), and Oulline of Biology 915, (1930) He died in 1933

Thomson Sir Joseph John English scientist Born near Manchester, Dec. 18, 1856, he was educated at Owens College and at Trinity College, Cambridge, of which he was made Fellow in 1880, and lecturer in 1883 From 1884 to 1918 he was Cavendish Professor of Experimental Physics in Cambridge and from 1905 1918 Professor of Physics at the Royal Institution in London He was awarded the Nobel Prize for Physics in 1906, was President of the Royal Society, 1916 1920 and since 1918 has been Master of Trinity College, Cambridge He was knighted in 1908, and awarded the OM in 1912

1916 1920 and since 1918 has been Master of Trinity College, Cambridge He was knighted in 1908, and awarded the O M in 1912

Thor In Scandinavian mythology, one of of Odin He lived in a huge palace called Bilskirnir, and the rolling of his chariot caused the thunder His most precious pospession was a magic hammer called Miölnir, which always returned to his hands after being hurled Thursday is called after him

Thorax or anterior portion of the chest or anterior portion of the trunk in animals and man Its muscular walls are supported in front by the breastbone and rib cartilages, on the sides and back by the body ribs, and in the median dorsal line by the dorsal spinal vertebrae

Thoreau Henry David American Mass, July 12, 1817, he was educated at Harrard In 1835 he began a dlary which extended to 30 volumes, full of fine thoughts and graphic descriptions For several years he was a member of Emerson's household His most popular book, Walden, A Life in the Woods is a description of two years spent alone in a shanty he himself built in the forest. He died May 6, 1862

Thorium Rare metallic element having the symbol Th and atomic weight 232 15 It occurs in the minerals thorite, thorianite and monazite As extracted, it forms a greyish powder which is converted by hydraulic pressure into malleable, ductile bars. It has radio active properties and is used for X ray targets and wireless valve filaments

Thorn Generic name for all trees or spined or thorny branches The common hawthorn, Cratacyus oxycantha, is an example

Thornaby Borough and market town to the stands on the Tees, opposite Stockton, with which a bridge connects it It is 235 m from London, on the L NE Rly The industries include shipbuilding yards, corn mills and engineering works Pop (1931) 21,233

Thorndike Dame Sybil English ao tress She was born at Gainsborough Oct. 24 1885, and educated at the High School, Rochester, and the Gulidhall School of Music, London She studied at Ben Greet's Academy, and made her début at Oxford, June, 1904, as Phyllis in My Lord from Town She then toured in the United States in Shakespeare répertoire with

Ben Greet. Later she was with the Horniman Company in Manchester Her London début was in 1908 at the Scala, and in the same year she married Mr Lewis Casson She was seen at her best as Jane Clegg in the play of that name by St. John Ervine, and as Joan of Arc in Shaw's Saint Joan She was made a DBE in 1931, toured Egypt, Palestine, Australia and New Zealand in 1932-3, and returned to play in London and New York In 1935 she appeared in London in Grief Goes Over and in 1936 in Short Story

Thorne Market town of Yorkshire (WR) It is 10 m from Doncaster and 166 from London, by the LNE Rly and is situated on the Don Rope is made, and there is an agricultural trade There is a 14th century church

Thorne Will English politician He was born in Birmingham, Oct 8, 1857, and began life at 6 in a barber's shop In 1889 he helped to found the National Union of General and Municipal Workers, and onton of reneral and Municipal Workers, and has been general secretary since, he has represented West Ham in the Labour interests since 1906, and has been a member of the West Ham Town Council since 1890, being mayor, 1917-18 He published My Life's Battle in 1925

Thornton Urban district of Lanca-shire It is 16 m from Preston, on the L MS Rly Pop (1931) 10,144 Another Thornton, 6 m from Bradford, Yorks, was the birthplace of the Bronte sisters Another is a rly junction in Fiteshire

Thornton Heath District of Croythe N of the borough and is a residential area for Londoners, the city being 9 m away It is on the S Rly, and is united by tramways with Croydon and London

Thornycroft Sir William Hamo Eng-London March 9, 1850, he was educated at University College School, London, and the R.A. Schools His first success was "Artemis" R.A Schools His first success was "Artems" (1880) Among his many statues, or memorials, are "Queen Victoria" at the Royal Exchange and at Karachi, "King Edward VII," at Karachi, "General Gordon," in Trafalgar Square, "John Bright," in Rochdale, "Gladstone," in the Strand, London, "Lord Curzon," in Calcutta and the War Memorial in Durban Elected A R A in 1884 and R.A in 1888, he was knighted in 1917, and died, Dec 18, 1925

Thorwaldsen Bertel Danish sculp-sea, Nov 19, 1770 In 1793 he gained a gold medal and a three years' travelling scholarship, medal and a lince years travelling scholarship, at the Copenhagen Academy He went to Rome, and in 1796 won fame with his "Jason" Other works of his are "Christ and the Twelve Apostles," "Byron," the bas-reliefs "Night" and "Morning," and the "Lion of Lucerne" He died March 24, 1844

Thoth Egyptian deity Measurer of souls, his emblem is the ibis He was the God of science, invention and magic

Thothmes Name of four kings of Thothmes I carried his arms as far as the Euphrates and greatly beautified Thebes Thothmes II, under the tutelage of his sister, conquered the Arabs His brother, Thothmes III, raised Egypt to its highest glory

Thought Reading See TELEPATHY.

Thrace Area in the Balkan Peninsula It is a country of rugged hills, originally inhabited by a dark long-skulled race, which dated from the Stone Age. It became the stone area to be a second by the stone area were necessary to be a second by the stone area. came a Roman province, and has been frequently overrun by invaders In 1923 it was divided—Western Thrace being given to Greece, Eastern Thrace to Turkey

Threadneedle Street the olty of London It goes from the Mansion House to Bishopsgate On the north side is the Bank of England, which is sometimes referred to as the Old Lady of Threadneedle Street

Three Rivers City and river port of the St. Lawrence, where the St Maurice falls into it through its two mouths, thus giving rise to the name of the city It is 96 m. from Montreal and 76 from Quebec, and has a good harbour and stations on the CP and ON Rivs Lumber is exported and there are pulp and paper mills, for which electric power is derived from the Shawinigan Falls There is a Roman Catholic cathedral Three Rivers was founded by the French in 1634 Pop (1931) 35 450 (1931) 35,450

Three Taverns Village of Italy Applan Way, 38 m from Rome Here S Paul, on his way to Rome, was met by his friends (Acts xxvili)

Thrift Perennial plant (Armeria vulgaris) of the order Plumbaginea, also known as the sea pink. It has tufts of grass-like leaves on woody branching roots which flower heads rise on slender, hairy stems. It is found wild on cliffs and rocks in many seaside places, and also in mountain districts

Thring Edward English schoolmaster, became Headmaster of Uppingham School, a post he held with distinction till his death, Oct 22, 1887

Throat Front part of the neck from the chin to the collar bone and (internally) the pharynx, which connects to the nose, larynx, vocal cords (Adam's apple), windpipe and oesophagus Throat aliments include pharyngitis and laryngitis, inflammations of the parts concerned, diphtheria, tonsilitis, adenoids and cancer The Throat Hospital in Golden Square, London, was founded in 1863

Sore Throat. A slight sore throat

Sore Throat. A slight sore throat, from a chill, strain, dirt, etc, will be relieved by sucking chlorate of potash pellets. A gargle of borax and water or salt and water is also soothing, especially for hoarseness. If there is any swelling, hot flannels should be applied, and if the condition is at all severe it is best to go to bed

Throgmorton Street Thoroughthe city of London It goes from Old Broad Street into Lothbury, and is chiefly kn because here is the Stock Exchange Ano building in the street is the Drapers' Hall known Another

Thrombosis Clotting of blood within brain it leads to hemiplegia, or paralysis of one half of the body It may occur in connection with varicose veins

Chair of state occupied by the Throne sovereign. In ancient times, especially in the east, gold, ivory and rock crystal were used in their construction, while precious stones were freely used for their decoration

Throttle Valve Type of valve used for the regulation of steam or gas to a cylinder, and worked by means of a lever

Thrush or Throstle Bird of the species Turdidae, allied to which are the ousels, stonechats, robins and hodge sparrows. The song thrush is to be met within the property of the species of the British Isles all the year round, its eggs are sea green with black spots

Thrush Disease of the mouth and throat. It is marked by the appearance of pearl coloured fungous vesicles in the part affected, and occurs especially in children, but also affects adults who have been enfeebled by wasting disease. It is also disease affecting the frog of a horse's foot It is also a

Thucydides Athenian historian He was born about 460 B C A man of wealth and influence, he commanded an Athenian naval squadron on the Thracian coast in 424 and was exiled after failing to relieve Amphipolis from the Spartans He now travelled, visiting the countries of the Spartan allies, which doubtless, apart from his Spartan allies, which doubtless, apart from his judicial outlook, enabled him to take the impartial view for which his History of the Peloponnesian War is famous In 404 he returned to Athens, and he died, probably by violence, about 399

He wrote his History not only as a record but to be a source of political learning for posterity, scrutinising facts and dates with immense care, while the speeches which he puts into the mouths of the leaders of the time throw a bright light on the attitude of the Greek mind

bright light on the attitude of the Greek mind to political events

Thus Indian religious fanatic The carried on by thus in Northern and Central India was suppressed in 1830 48 Thuggery was associated with the wership of Kall, to whom its devotees regarded their victims as sacrifices

Thumbscrew Instrument of torture operated so as to crush or even break the operated so as to crush or even break the thumb, thus causing exquisite pain. It was used by the Inquisition in Spain and elsewhere and by the persecutors of the Covenanters in Scotland. Its last recorded use in Scotland was towards the end of the 17th century

Thun Lake and town of Switzerland Situated in the Canton of Berne, and on the Aar, the town is a tourist centre and has industries of pottery, slate and brickwork Pop (1930) 16 428 Tho lake is 11 m long, with an area of about 19 sq m, surrounded by beautiful scenery

Thunder Deep roaring sound, which of lightning It is caused by the sudden expansion of heated air during the passage of the electric current followed by an equally sudden contraction

Thunderstone Common name for objects once regarded as being formed by thunder or lightning It is used especially for objects having more or less a dart or arrow shape, for belomites, meteorites and the pyritous nodules occurring in cretaceous rocks

Thurifer In the Roman Catholic Church one who carries the thurible in which incense is burned

Thuringia Republic of Germany In Upper Saxony, it lies between the Thuringian Forest and the Harz Mts It was formerly tributary to Attila, the Hun and to the Franks under Charles Martel Following the German Revolution, the free state of Thuringia was formed in 1920 by the union of Saxe Welmar Eisenach, Saxe Meiningen, Saxe Altenburg, Saxe Gotha, Reuss, Schwarzburg Rudolstadt and Schwarzburg-Sondershussen It is a roughlic with peellement. Schwarzburg Rudolstadt and Schwarzburg-Sondershausen It is a republic with parliamen-tary government Welmar is the capital, but Jena and Gera are larger towns Of its area of 4540 sq m, over half is devoted to agricul-ture The manufactures include textiles, glass, porcelain, machinery, optical and scientific instruments and toys Pop (1925) 1,196,244

Thurles Market town of Co Tipperary, from Clonmel, stands on the Suir, on the GS Rlys There is a Roman Catholic cathedral Pop (1926) 4816

Thurlow Edward Thurlow, Baron English lawyer and politician Born at Bracon Ash. Norfolk Dog. 9, 1731 years

at Bracon Ash, Norfolk, Dec 9, 1731, was educated at Canterbury and Cambridge He studied law, became K C in 1761, and entered Parliament in 1768, becoming Solicitor General, and in 1778 Lord Chap. Attorney General, and, in 1778, Lord Chancellor (and Baron Thurlow) a post he retained till 1792 He died Sept 12, 1806

Thursday Island Small island in Belonging to Queensland, it lies 30 m off Cape York, and has a good harbour, Port Kennedy, at which mail steamers, passing through the Strait, call The chief industry is pearl and tropang fishing Pop 1700

Thursley Village of Surrey It is near Hindhead and is known for its picturesque common The parish church is partly Saxon Iron was once worked in the neighbourhood and the hammer ponds are still seen

still seen

Thurso Burgh and scaport of Caithness the LMS Rly Here are the ruins of a 14th contury church and a bishop's palace, also a modern castle and a museum Thurso is the

modern castle and a museum Thurso is the starting place for steamers for the Orkney and Shetland Islands Pop (1931), 2946

Thurston Ernest Temple English novelist and playwright He was born, Sept. 23, 1879, and at 16 had published two books of poems His City of Beautiful Nonsense (1909) brought him into prominence, and The Garden of Resurrection (1911) increased his reputation Since 1906 he has published 38 novels 3 volumes of poems and 10 plays He died in 1933

Thurstee Ancient City of Asia Mison

Thyatira Ancient city of Asia Minor Churches mentioned in Revelation (ii 18-23) The site is now occupied by Ak hissar

Thylacine Tasmanian marsupial In between a hyena and an opossum, with dog like muzzle, long tall and grey brown fur striped with black It is nocturnal and destructive to cheep

Thyme Genus of small, aromatic shrubs (Thymus) of the order Labiatae The wild thyme (T serpyllum) is found on downs and hillsides It has a crooping stem small leaves and spikes of purplish flowers Lemon thyme is a variety of the same species T vulgaris, the garden thyme, is taller and is used for flavouring food

Thymol Crystalline substance belonging to the phenol group It is present in the volatile oil of thyme and forms 50 per cent of oil of ajowan, its chief commercial source Thymol forms large transparent crystals, having the odour of thyme and a pungent taste It is a powerful antiseptic drawn into tide) are an and germicide

Thyroid Gland Soft endocrine gland lobes lying one on either side of the traches and joined by an isthmus Its internal secretion or hormone increases combustion in the body, stimulates growth of bone and is related to the activity of the sexual glands Inactivity of the thyroid results in the diseases myxoedema and cretinism and in these cases the use of thyroid extract is found beneficial, while excessive activity causes Grave's Disease, or exophthalmic goitre

Tiara Triple crown worn by the pope It was originally worn by the Persian kings and later by Romans, both men and women A similar headdress was worn by the Jewish high priest and the clergy of the Greek Church Jewelled tiaras are worn by women of rank on state occasions

Tiber River of Italy Rising at Tifernum in the Apennines, its total length is 240 m It is frequently in flood and has muddy, rellowish waters It flows past Rome and is famous for its association with that city

Tiberias City on the western shore of the Sea of Galilee Built by Herod, it was a centre of rabbinical learning, and was named after the emperor Tiberius From here came the sightseers to the scene of the feeding of the five thousand (John vi 23)

Tiberius Roman emperor Born Nov power at Rome in A D 14, by the influence of his mother, Livia He resided at Capreae, and was murdered on Mar 16, 37 Abetted by his favourite, Sejanus, he marred his reign by deeds of the greatest cruelty and sensuality

deeds of the greatest craete, and

Tibet Country of Asia It lies between
463,200 sq m A mountainous area, it is
thinly peopled and much of its surface is
unexplored Lhasa is the capital The head
of the government is the Dalai Lama, who
appoints a regent and ministers to administer
the country The religion is Lamaism
Nominally Tibet is under the rule of China
Rice, barley and a little fruit are grown sheep
and pigs are kept and there is a little mining
There is a considerable trade between Tibet
and India, and treaties between the two
countries have been signed Pop 3,000,000

Tibia Roman musical instrument It was similar to the present-day oboe The name is also given to the shinbone, a long, triangular bone on the inside of the fibula At its joint with the femur it is broad, but tapers down to join the foot

Tichborne Village of Hampshire It is 2 m from Alresford and has a church with a Saxon chance! Here is Tichborne House, the residence of a family that has owned the estate for some 800 yrs. In 1872 there was a famous lawsuit about the ownership, in which the claimant, whose real name was Arthur Orton, failed to prove his case

Tickhill Urban district of Yorkshire (WR) It is 6 m south of Doncaster, and 158 from London, by the

LNE Rly There is a ruined castle Pop (1931) 2297

Tide Regular ebb and flow of the oceans, due to the attraction of moon and sun. The lunar force predominates. The waters are drawn into a long wave, whose crests (high tide) are antipodal with corresponding troughs (low tide) between them. Owing to the earth's rotation these high and low tides follow each other regularly from east to west, but differences in ocean depths and the continental masses cause tidal variations along the coasts.

Tideswell Town of Derbyshire It is nearest rly station being Miller's Dale, on the L MS line It has a grammar school and a 14th-century church Near is some of the most beautiful scenery of the Peak District

Tidworth Village of Wiltshire It is 9 m from Andover and 76 from London by the S Rly It is near the Hampshire border, and is a military centre in the Salisbury area

Tientsin Treaty port of China Opened for foreign trade in 1860 it is situated at the point where the Grand Canal joins the Peiho and is about 70 m from Peiping (Peking) midway between that city and the coast Unlike the native city, the foreign city is well built and well kept Tientsin is the entrepot for Peking, and from here tea caravans start for Russia and Siberia Salt is an important article of commerce (1931), 1,387,462

Tierra del Fuego Group of isextreme south of South America Divided between Chile and Argentina, it consists of one large and several small islands, separated by the Strait of Magellan from the mainland They were discovered by Magellan in 1520 The southern point is Cape Horn The land is steep and windswept with a few fertile areas on which, in the Chilean area, settlers raise horses, cattle and sheep

Tiflis Capital of the Soviet Republic of Georgia, and also of the Transcaucasian Socialist Federated Soviet Republic It is picturesquely situated on both banks of the Kura and is shut in by high mountains There are warm springs Cotton, silk, carpets and tobacco are manufactured It has a broadcasting station (1071 M, 10 kW) Pop (1931) 294,007

Tiger (Felis tigns) of the Felidac Widely distributed throughout Asia, it inhabits jungle and forest regions, preving on deer, pigs and other animals On occasion domestic cattle and man himself are attacked The body is 6 ft long with a 3-ft tail, and at the shoulder the tiger stands 3 ft high The rough tongue assists the teeth when the animal is tearing off fiesh The fur is reddish-brown above, with black striping on head, limbs, body and tail The under parts are white

Tiger Lily Bulbous plant (Lilium ligning) of the order Liliaccae It is a Chinese variety of lily, three or four ft high, with racemes of handsome orange-red blooms spotted with black. The bulbs are usually planted in the early spring

Tiglath-Pileser Name of four kings of Assyria Tholast, Tiglath-Pileser II, who reigned 745-727 BC, was a usurper who founded the second Assyrian

King Ahaz called in his help against Empire Rezin of Syria and Pekah of Israel (2 Kings xv

and xvi 2 Chron xxviii)

River of Mesopotamia I igris in the mountains of Armenia and Turkistan, and flows S E for some 1100 m to join the Shat el-Arab near Kurna. It is known to the Arabs as the Digia, and is one of the rivers of antiquity Basra and Bagdad are rivers of antiquity on its banks.

Tilbury Urban district and port of Tilbury Essex It is on the Thames, 22 m from London, on the LMS Rly There is an old church, but the place is chiefly known for its docks Belonging to the Port of London and enlarged since the Great War, these cover 676 acres and accommodate the largest vessels afloat They are chiefly used by vessels trading with the East, Near the town is Tilbury Fort. This was built in the time of Henry VIII and here at the time of the Castleb trades of the Port and Physical Research Spanish Armada Elizabeth reviewed her troops

Pop (1931) 16,826

Tile Thin flat slab of marble, stone or baked clay, glazed or unglazed, deporation of a and used in the structure or decoration of a building Tiles are divided into three groups—

floor and wall tiles

Roofing tiles were known early in Japan, and were usually yellow and glazed, and in ancient Greece and Rome were of marble coloured clay, and "Spanish" with the contour of the letter "S"

Floor tiles were, in 12th-century Europe, usually mosaic in type, or of two colours Italian majolica tiles were decorated in the classic designs The modern tendency is to use machine pressed tiles which are hard and vitrified, in a few simple colours and shapes

vitified, in a few simple colours and snapes Wall tiles were known in an elaborate form in ancient Egypt and Babylon, and later in Persia and Rome The Persian tiles were blue white in colour, with beautifully intertwined flowering plants in green with occasional touches of colour Moorish tiles had metallic lustre decoration, and in Delft, from 1600, were made blue tiles containing & picture, or a piece of landscape, or a figure Modern wall tiles have many beautiful crackled effects, in a great variety of shades and blendings

Tillett Benjamin. English Labour leader He was born in Bristol in 1860 and after serving in the navy and the mercantile marine, settled at the London docks and organised the Dockers' Union He was MP for N Salford, 1917 24 and 1929 31, and chairman of the General Council of the Trade Union Congress, 1928-29 and published his Memories and Reflections in 1931

Tillicoultry Town of Clackmannan shire It is 5 m from Alloa, on the L.NE Rly The River Devon flows past the town, which has a reputation for plaids and tartans Pop 4461

Tillotson John Robert. Archbishop at Sowerby, Yorkshire 1630 and educated at Cambridge He served Cromwell as Attorney General in 1656, and in 1664 married Cromwell s niece In 1672 he was made Dean of Canter bury, in 1689 Dean of St Paul's and in 1691 Archbishop of Canterbury He died Nov 22, 1694 The best preacher of his age, he was mild and tactful in controversy His sermons He was born are noteworthy for their masterly prose style

Thirty Years' War He won many victories, including the storming of Magdeburg in May, 1631, when over 40 000 people were butchered In the following Sept. Tilly was routed by Gustavus Adolphus at Breitenfeld and in April, 1632, was mortally wounded at the Battle of the Lech

T11S1t Prussian town It is situated on the Memel about 65 m NE of Königs berg and manufactures from glass, cloth and machinery Pop about 40,000 Here on July 7, 1807, Napoleon, then at the height of his power, made a Treaty with Tsar Alexander I, by which Westphalia was formed out of Hanover and West Prussia, and placed under Jerome Bonaparte Prussian Poland was given to Russia and Saxony, Alexander was to join France against Britain

Timber Wood prepared for building and carpentry purposes Timber is divided into soft and hard woods, and after felling is sorted according to grain and texture It is seasoned in sheds and to prevent decay and rot is soaked in or painted with a preser-vative, such as cresote Oak is used for indoor and outdoor work, ash for aircraft In real property, timber means oak, ash and elm, and, in some localities, beech

Timbrel Musical instrument. It was a mentioned in the Bible, being used by the Israelites in dance and song

Timbuctu City in the French Sudan. Sahara, near the most northerly point of the Niger Formerly an immense walled city, it has been improved and partly rebuilt since the French occupation in 1894 It is an important trading centre and terminus for camel caravans bringing salt, gold, dates, etc., for exchange for cloth and other manufactured goods Pop (1931) 5,677, but 20,000 during the trading season

Term generally applied for the Lime of 24 hrs is the universal unit. Other natural units are the mouth and year, the hour, minute and second being artificial For time measurement clock mechanism is in common use Owing to the west to east rotation of the earth in 24 hrs equal to 15° per hour there is a difference in local times, consequently standard time helts have been adopted

In music, relative duration of sound or rest The semibreve is The minim is half a semibreve, the 1 ime the unit. crotchet half a minim, the quaver half a crotchet, there are also the semiquaver, demisemiquaver, and so on

Times The London newspaper, regarded as the country's premier journal It was founded in 1785 by John Walter, its price being 3d The building is in Printing House Square, London, EC4 House Square, London, EC4 Under John Walter's son and grandson the paper became very influential and prosperous New methods were adopted, and the personality of its greatest editor, John T Delane, added much to its authority In 1861, the price, which had been as high as 7d was reduced to the original 3d. Towards the end of the 19th century The Under John Times became less prosperous and this made it possible, in 1908, for Viscount Northeliffe to acquire control He introduced a number of Tilly Count. German soldier Born in Tilly, Brabant, in 1559, Johann Tzerelaes to a penny Later it was raised and in 1922 Count of Tilly commanded the League in the it was stabilised at 2d On Lord Northcliffe's

death in 1922 the control was acquired by Mr John Walter and Major the Hon J J Astor, who made arrangements to prevent the paper who made arrangements to prevent the paper from passing into the hands of any sectional interest. The Times publishes a weekly illustrated edition and various supplements, including the valuable weekly, The Times Literary Supplement Others are the educational and the trade and engineering supplements Its Law Reports are authoritative

Timgad Ruined city of Algeria It lies on the lower slopes of the north side of the Aures Range, at the point where six roads meet It was called Thamugas by the Romans The Arch of Trajan, restored in 1900, is a fine example of the triumphal arch A temple of Jupiter, a theatre, and baths have been excavated

Timor Island of the Malay Archipelago reaching 11,500 ft and the volcanic activity of the neighbourhood is represented by mud geysers. The western area forms part of the Dutch East Indies, capital Kupang. The eastern part is Portuguese, capital Billy. The products include coffee, cocoa, copra and sandalwood. Pop. Portuguese (1927) 451,604, Dutch (1930) 1,656,636.

Timothy Saint and companion of S Paul, whom he accompanied to Europe He helped to found churches in to Europe Macedon and did important missionary work in Corinth, Thessalonica and Philippi, and later in Asia Minor He was imprisoned at one time with S Paul, and tradition makes him Bishop of Ephesus and a martyr under Domitian His death is celebrated by the church on Jan 24

Timothy Epistles to Two books of the New Testament The traditional view that they were written by the apostle Paul has not been disproved, though they reveal striking points of divergence from the other Pauline letters, both in language and subject-matter The purpose of the letters is summed up in I Timothy iii, 15

Tin Metal, atomic weight 118, symbol Sn, melting point 232°C It is a brilliant, whitish-grey metal, its chief source being cassiterite Sno. The principal mines are in the Nelson States. whitish-grey metal, its chief source being cay-siterite SnO. The principal mines are in the Malay States, Bolivia, the Dutch E Indies, Nigeria, China and Siam. It is largely used as a covering for iron, in tinfoll for wrappings (though largely superseded for this use by aluminium), mirrors and in vessels. As an alloy with copper, it forms bronze and bell-metal and pewter with lead.

Tincture In medicine, the solution of a substance in alcohol, tincture of iodine is a familiar example The term is also used in heraldry to denote metals, colours and turn In general use it means simply a tone or shade of colour

Tindal Matthew English deist, born in Devonshire about 1656 In 1706 he excited flerce controversy by the pub lication of The Rights of the Christian Church Against All Romish and Other Priests In 1780 he published Christianity as Old as the Creation, popularly called "The Deist's Bible," which was intended "to strip religion of the additions which policy, mistakes and the circumstances of the time have made to it." He died Aug 16, 1733

invention of matches a spark struck by means

of a flint and steel was used to ignite the tinder. This consisted chiefly of rotten wood, touch paper, scorched linen, and amadoue—a form of dry fungus found on forest trees

Tinfoil Name given to thin sheets of an alloy of tin used for wrapping tobacco, drugs, chocolate, and so on,

Tinplate Sheets of wrought iron or mild steel coated with tin and so protected from oxidation. Tinplate is extensively in the manufacture receptacies for preserved meat, fruit, fish, etc The process of tinplating originated in Bohemia Tinplate should not be confused with terne plate, which is formed by dipping the sheets of iron and steel into baths of molten lead and The result is dull-coloured and used

rinsel Fabric of silk of wool, into which are interwoven threads of gold or silver The name is also given to any glittering metallic substance which has been cut into pieces strips or threads and presents a sparkling appearance

Tintagel Village of Cornwall It is on the north coast, 5 m from Camelford and 20 from Launceston On Tintagel Head are the ruins of a castle which legend associates with King Arthur The scenery around is very wild and the coast very rocky There are golf links

Tintern Village of Monmouthshire It is 5 m from Chepstow and 144 from London, on the GW Rlv It is famous for the ruins of its abbey, once one of the wealthiest Cistercian houses in England The ruins include the chapter house and refectory, but above all the church, rivalling in size the minster at York In 1900 the Duke of Regulort presented the estate to the nation of Beaufort presented the estate to the nation and extensive repairs have been carried out The abbey stands by the Wye in a landscape of almost unique beauty

Tintoretto Italian painter whose real name was Jacopo Robusti Born in Venice, Sept 29, 1518, he studied under Titian His skill in portraiture, in composition, drawing, colour and general conception caused Ruskin to rank him among the "five supreme painters" Famous works of his are "St George and the Dragon" in the National Gallery, London, "Belshazzar's Feast," "The Last Supper," and the large painting "Paradise," in the Doge's Palace, Venice He died May 31, 1594

Tinworth George English artist in terra-cotta Born in Walworth, Nov 5, 1843, he studied sculpture, and in 1867 joined Doulton's pottery works in Lambeth, staving there till his death on Sept 10, 1913 He excelled in terra-cotta reliefs, exhibiting at the Royal Academy for many years In collaboration with Street, the architect, he executed a large panel of the Crucifixion for York Minster, as well as 28 panels for the Guards' Chapel in St. James' Park Park

he published Christianity as Old as the Creation, popularly called "The Deist's Bible," which was intended "to strip religion of the additions which policy, mistakes and the circumstances of the time have made to it." He died Aug 16, 1733

Tinder Any inflammable substance used In Lindling a flame Before the lavention of matches a spark struck by means to riding Other places are Thurley of the N riding Other places are Thurley. of the N riding Other places are Thurles.

Cashel, Tipperary and Carrick on Suir Milk and butter are produced, and there is a little coal mining Pop (1926) 141,115

Tipperary Urban district and market town of Co Tipperary, Irish Free State It is 110 m from Dublin, on the Gt S Rlys It is a centre for the sale on the Gt S Rlys It is a centre for the sale of butter, milk and other farm produce There are remains of a monastery, but none of the castle built here by the English Although it gives its name to the county, Tip perary is not the county town Pop 5555. The song, "It's a Long Way to Tipperary," so popular during the Great War, was written and composed by Jack Judge in 1911

Tippu Sahib Sultan of Mysore He invasion of Travancore in 1789 led to a three invasion of Travancore in 1789 led to a three years' sangulnary war, on his defeat he was compelled to resign half of his dominions, pay a big indemnity and give his two sons as hostages for future good behaviour. His impleable hatred of the British, however, led him to stir up further strife. On May 4, 1799, he was killed during the storming of his capital Seripcanatem. capital, Seringapatam

Tipstaff officer of the high court of His business is to arrest persons gullty of contempt of court or other offences in the region of the court. The name is due to his staff, which is tipped

with metal

Tipton Urban district and market town of Staffordshire It is 8 m of Staffordshire It is 8 m of Birmingham and 124 from London, by the L M S, Rly, and is also served by the G W Rly In the Black Country, the town is a centre of the coal mining and iron working industries Pop (1931), 35,792

Tiptree Town of Essex It is 46 m hom London, on the LNE Rly, a light rallway running from Kelvedon The place is famed for its jam factories The jam is made from fruit grown on land once a bare heath, but made productive by irriga

tion and drainage

Tirah Mountainous tract in the NW Frontier Province of India Lying between the Khyber Pass and the Khanki Valley, in a kind of mountain cul de sac, it covers some 700 sq m, and comprises the valleys round the headwaters of the River Bara. Peopled by the farce and warling Bara. Peopled by the flerce and warlike Afridis and Orakzais it is chiefly memorable as the scene of the British campaign against these tribes in 1897 98

Tiree Island of the Hebrides Part of the county of Argyll, it lies to the S of Coll, and 19 m from Iona It is 14 m long and covers 30 sq m There are two small harbours and the chief occupation is the

rearing of cattle

Tiresias in Greek mythology a famous blind soothsayer of Thebes He is the subject of a fine poem by Tennyson

Tirol Region of Austria and Italy Verona, and contains all the highest peaks of the Austrian Alps, with the Brennan Pass as the way from one country to the other It has an area of 4 790 sq m, and is almost entirely mountain and forest. Innsbruck is the capital The Ortler Spitz (12,811 ft.) is the highest mountain

Since the Great War the Trentino, which used to be part of the Austrian Tirol, has be longed to Italy The industries are mainly

Milk agricultural, with lumbering and cattle little rearing Salt and lead are mined and there is some silk manufacture Pop 313,885

Tirpitz Alfred Friedrich von German admiral Born at Küstrin, March 19, 1849, he entered the navy in 1865, and became Lord High Admiral in 1911 In his capacity of Secretary for the Navy (1897) 1916) his aim was to make Germany a great naval power, and he gradually built a formid able battle fleet. He commanded the navy

able battle fleet. He commanded the navy from Aug, 1914, to March, 1916, being a strong advocate of the policy of "frightfulness" He entered the Reichstag in 1921 as a national deputy He died March 6, 1930

Tiryns Ancient fortified city on a rocky ridge near the E side of the plain of Argos, in the Peloponnese About 3 m from the coast, it was supposed to have been founded by Proctus, brother of the Argive king, Acrisius It was destroved in 468 BC Ruins of two palaces, dating about 1600 BC, have been among the more interesting archaeological discoveries interesting archaeological discoveries

James Joseph Jacques French Lissot painter He was born at Nantes. Oct, 15, 1836, and studied art in Paris In 1861 his great painting, "The Meeting of Faust and Marguerite," was bought by the Faust and Marguerite," was bought by the state for the Luxembourg Gallery During the war of 1870 71 he left Paris for London, where he soon attracted attention by his caricatures in Vanity Fair His great work was a series of some 700 water colours illustrating the Bible, and 350 drawings of events in the life of Christ. He died Aug 8, 1902

Tissue Biological term for cell aggregation It is applied to cellular tissue as found in nails and epidermis and connective tissue, in which the separated, as in fat and cartilages the cells are Tissues Tissue are tubular in muscles and nerves Tissue culture, the cultivation of cells, wherein they multiply and synthesise new protoplasm, is a study of importance to physiology and

is a study of importance to physiciogy and pathology

Tit Small passerine bird of the family Paridae. Natives of N Europe and Asia, some seven species of tits are found in Britain They are tree living birds The tomtit or blue tit (Parus coeruleus) is about 41 in long The head, wings and tail are blue, upper parts greenish-yellow, yellowish beneath, throat being black The long tailed, bearded and marsh tit are common, the great tit and created tit being confined to certain regions crested tit being confined to certain regions

Titan Name given to the children of Uranus (Heaven), and Ge (Earth), in Greek mythology They were twelve in number—six male and six female The males in Greek mythology number-six male and six female were Oceanus, Cocus, Crius, Hyperion, Iapetus and Cronus, the females, Thea, Rhea, Themis, Mnemosyne, Phoebe and Tethys Cronus became involved in a war with Zeus, and the other Titans sided with Cronus, but Zeus was victorious, and imprisoned them all in Tartarus

Titanic British liner She belonged to the White Star Line, and was sunk in the Atlantic Ocean, April 15, 1912 Over 1500 lives were lost including W T Stead and J J Astor, and about 700 were saved The disaster was due to the vessel striking an leeberg. An inquiry was held in London into the offer.

London into the affair

Titanium Metallic element having the symbol Ti and atomic weight It occurs in ilmenite containing iron

and titanium oxides, in rutile, an impure titanic acid, and in certain iron ores. It is a white, very infusible metal used in steel allovs, also for incandescent lamp filaments, and the oxide for making a white pigment outside.

Tithe Originally a levy of one-tenth of great antiquity, and took the form of a levy upon produce payable to the Church The Tithe Commutation Acts (1836 60) commuted tithes into a permanent tithe rent charge, payable in money The Act of 1891 put responsibility for collection on the landowner, while the Tithe Act of 1925 secured the complete redemption of ecclesiastical tithe in a period of 85 years, the tithe rent charge being fixed at £105, of which clerical owners receive £100 By this Act any rent charge, attached before March 31, 1927, to a benefice or ecclesiastical corporation, was transforred to the Governors of Queen Anne's Bounty (q v) to be held in trust for the incumbent Tithe Barns were barns belonging to a lord or religious house in which crops representing rent or tithes were stored

Titian Italian painter Tiziano Vecelli Gregorio Vecelli, a soldier and councillor, he was sent as a child to Venice There he became the pupil of Giovanni and Gentile Bellini, and Glorgione He is one of the greatest portrait painters and colourists in the history of art. The Emperor Charles V whose portrait he painted, made him a Knight of the Golden Spur He painted many great religious pictures and a number of an allegorical and poetical character Five of his works are in the National Gallery, London. He died Aug 27, 11576

Title In law the right by which a person holds property, especially real property. It may be acquired by purchase, gift, inheritance or even length of possession, as when a squatter obtains a title to the land on which he has settled for a period of years.

In Great Britain the title to land is usually transferred by conveyance, this being done by lawyers who prepare the necessary documents Land can be transferred by registration, a method which has been operative for some time in Australia and other British possessions. In the county of London the registration of title to land is compulsory when property is bought or sold. When this has been done the title is guaranteed by the state. The land registration office is in Lincoln's Inn Fields, London, W.C.

Titus Christian convert and follower of S Paul, who consecrated him first bishop in Crete, and addressed one of his epistles to him He died towards the end of the 1st century

Titus Flavius Sabinus Vespasianus 79-81. Born Dec. 30, 40, he served as military tribune in Britain and Germany In 70 he besieged and destroyed Jerusalem The terrible eruption of Vesuvius, when Herculaneum, Pompeii and Stablac were buried by lava, occurred during the first vear of his reign He completed the Colosseum, and died Sept. 13, 81 Probably the best beloved of all Roman emperors, he earned the title amor et deliciae generis human

Tiverton Borough and market town noted by Pane in 1494, and tolnec observed in 1502, in America where the noted by Exercise observed in 1502, in America where the seemed to be an ancient tribal one.

GW Rly, and stands on the Exe An agricultural centre, it has breweries and flour-mills Here is Blundell's School, founded in 1604, and now occupying modern buildings outside the town Tryerton has also a 15th century church, a blue coat school and the remains of a castle The town hall contains some fine pictures. Pop (1931) 9511

Tivoli City of Italy In the province of Rome, and known to the Romans as Tibur, it was a favourite resort of the ancient world The Emperor Hadrian had a villa here, of which the ruins are still extant. It is still visited by thousands of people annually for its sulphur baths, as well as for its archaeological interest Its situation at an altitude of 750 ft. in the Sabine Hills makes it both beautiful and healthy Pop 12,340

Tiemcen Town of Algeria It is 2500 ft above sea-level and about to m S W of Oran Known to the Romans as Pomaria, and later the Moorish capital of N W Africa, it contains several handsome mosques, a fortress of the Moorish sultans and other relics of Moorish culture The museum possesses among other treasures the opitaph of Boabdil the last King of Granada, and also the standard cubit measure Olive oil and alfa are among the exports Pop (1931) 46,060

possesses among other treasures the opitaph of Boabdil the last King of Granada, and also the standard cubit measure Olive oil and alfa are among the exports Pop (1931) 46,060

Toad Genus (Bufo) of batrachians Toads resemble frogs in the metamorphosis, etc., but with striking differences. The skin is dry, with glands exuding an acid secretion, there are no teeth and the legs are shorter After the larval stage toads are land dwellers British species are the common toad (B vulgaris), which has a wrinkled warty skin, and the hatterlack (B calamita) of sandy regions, which has a smooth skin and runs instead of hopping

Toad Flax Genus of plants (Linaria) of the order scrophulariaceae. The vellow toad flax (Linaria) has a creeping rootstock, tufts of long, narrow leaves and bright yellow flowers resembling the snapdragon Unlike the snap-dragon, the flowers are spurred, the hollow spur containing honey

The ivy toad flax (L cymbalaria) has slender trailing stems, dark-green leaves with a purplish under surface and delicate purple-blue blossoms. It grows on old walls and ruins L spuria and L minor are annuals found in sandy cornfields during the summer months.

Toadstool Mushroom-like fungi of the order hymenomyceleae Some varieties are definitely known to be poisonous, others may be innocuous, but it is unwise to regard any of them as edible

Toast Drinking toasts is said to be so named from the pieces of toast which formerly were placed in one's liquor to improve the taste. The custom of toasts is probably derived from the ancient rite of drinking to the gods and to the dead. Norsemen, Romans and Greeks all observed this custom. Whereas toasting is now merely a rite of little importance, it was formerly regarded as an insult not to respond to it.

Tobacco Plant of genus Nicotiana It in chewing, snuff and smoking through cigars, pipes and cigarettes Natives smoking cigars were seen by Columbus in 1492, snuff as noted by Pane in 1494, and tobacco chewing observed in 1502, in America where the custom seemed to be an ancient tribal one. Tobacco

was first brought to Europe by Francisco (1936) 1000 branches scattered all over the Fernandes and was sent by Jean Nicot (whence World with headquarters at 47 Francis Street, Nicotine) to Catherine de Medici The United States still yield the largest supply, but Mexico, Germany Russia, China and Turkey produce large quantities, while the tobacco export of S Africa and Canada is increasing The plant requires rich soil and plenty of sun, and, having been cut, is sun-cured and fer mented before being used mented before being used

Tobacco is an important source of revenue, duty being paid in England on tobacco in the manufactured state

The world production is

about 2,300,000 tons per annum

Tobago Island in the British W Indies One of the healthiest, it lies 20 m N E of Trinidad. It ls 26 m long and 74 m broad and has an area of 114 sq m Much of the Island is covered with dense

Much of the Island is covered with dense forest, but the valleys produce sugar, cotton, tobacco, cocoa and rubber There is also some horse and sheep rearing It is under the same laws as Trindad Tobago was discovered in 1498 by Columbus The chief town is Scarborough Pop (1930) 26,407

Tobermory Scaport of argyllshire It is on Tobermory Bay, 30 m from Oban, with which there is a regular stance service, and has a good harbour Flshing is the chief industry In 1588 a Spanish gallon sank in the bay with, it was helieved, a vast sum of gold and other treasure on board In recent years many attempts have been made to recover this

Tobit Book of One of the books of the Old Testament Apocrypha account of the life in Nineven of Tobit, his wife Anna and his son Tobias, are pleas for

the giving of alms and tithes

Tobogganing Winter sport It was the devices of American Indians for sliding down steep snow-covered hills. Tobogganing down steep snow-covered fills. Tobograning or coasting is prevalent in America, Great Britain and Scandinavia. It has been per fected in the winter resorts of the Engadine, Switzerland, where specially prepared runs, such as the Cresta at St. Moritz, are available for annual championships. The most modern the company of the land and are there. for annual championships The most modern toboggans or sleds are of steel, and on them competitors, lying flat and steering with their feet, have attained 75 m p h

Toby Jug Small earthenware jug or made in the semblance of a corpulent jolly had in the seminance of a corpulent johy looking man wearing a three-cornered hat, the corners forming spouts The old name was Toby fillnot. Some 18th century specimens

are valued by collectors

Tobolsk Former government of W Siberia now known as the Ural area Its capital, Tobolsk stands on the Irtvsh River and is a trade centre of some importance It was formerly the capital of the whole of W Siberia. Pop 18 268

Toc H Organisation for Christian fellow ship and social service It originated during the Great War at Poperinghe where Talbot House (so named after a fallen officer, and founded by the Rev P T B Clayton) served as a club and a church for soldiers from Dec., 1915 Toc H is the army signaller s name for the initials T H The aim of the movement is to uphold the ideals of fellowship and service in 1922 it was incorporated by royal charter It has now

Tocqueville Alexis Charles Henri Chérel de French politiclan and writer Born in Paris, July 29, 1805, and called to the bar in 1825, he acquired fame by his De la Démocratie en Amérique, written after a visit to America in 1831 He visited England in 1835 Another important work was Lancien Régime et la Révolution He died April 16, 1859

Todmorden Municipal borough of Yorkshire (WR) It lles 19 m from Manchester and 203 from London, by the LMS Rly It is situated in a coal district and its industries include spinning, weaving and foundries Pop (1931) 22,223

Toga Loose outer garment, once a mark of Roman citizenship. The ordinary The ordinary toga was white and was assumed by Roman youths on attaining majority The purple toga of triumphant generals became the prerogative of the emperors

Togoland Country in W Africa, be tween the Gold Coast and Dahomey Formerly German, it was divided between France and Britain in 1919 The British area is attached to the Gold Coast, French administration is centred at the port, and the state of the coast. Lome The land is hilly with stretches of forest and open savannah country. The chief crops are foodstuffs, exports being cocoa, cotton and oil palm products. Area French, 21 893 sq m, British 13,041 sq m Pop French area (1932) 750,065 British area (1931) 275,968 being British

Town of Hungary, famous for its wine Tokay wine is white and Tokay sweet Imperial Tokay is a greenish colour and is a liqueur made from the juice of over ripe grapes which is expressed by their own weight Ausbruch is another quality, made from dried grapes of an ordinary kind All have a delicate flavour due to the sunny land in which the grapes are grown and the method of preparation Pop 5570

Token Form of coin It differs from ordinary coinage in that its intrinsic value is considerably less than its currency value Tokens have been used as state currency, but are more often issued privately. In modern times they are often privately In modern times they are often issued by tramway companies and similar corporations, especially on the Continent

Tokyo Capital of Japan formerly called Yedo It is situated on Honshiu Island, on both banks of the Sumida River The part known as Honjo is an island, inter sected by canals and connected by bridges with Tokyo proper The temples are found chiefly in Honjo and in the suburbs or Midzl which is the seat of the imperial university, with a fine library Notable among the temples are that the coldens of menusing the context of the coldens of t are that of Kwannon, the goddess of mercy, in Midzl and, in Honjo the temple of Hachiman, the god of war, and the temple of 500 images The Government buildings and the mercantile and manufacturing quarters are in the ward of Kojimachi also the imperial palace In Uyeno Park are the zoological gardens The city dates from the 16th century It re cyclic Park are the zoological gardens. The city dates from the 18th century. It received its present name in 1868, at the time of the revolution. Tokyo suffered severely from an earthquake in 1923. Pop. (1930) 4 978,390

Tolbooth Term used in Scotland for a prison The most famous was the one in Edinburgh mentioned in The Heart of Midlothian Near St Giles Cathedral in the High Street, it was pulled down in 1817 In one or two of the Scottish burghs the tolbooth still stands The word meant originally a booth at which dues or talks was collected. tolls were collected

Toledo Province and city of Spain ancient and interesting in Spain, stands on the Tagus, 47 m from Madrid, and is full of beautiful buildings, the most notable being the cathedral and the Alcazar Many of the old fortifications gravery and the like are the cathedral and the Alcazar Many of the old fortifications, gateways and the like, are still standing Its principal manufacture of old days, ie, sword blades, is still important Cutlery, cloth and richly embroidered ecclesiastical vestments are also made Pop 27,443

Toleration Term used to denote the in matters of religion. It has never been professed by the Roman Catholic Church Even the reformers, who claimed liberty for themselves, did not tolerate what they regarded as "the pernicious doctrines" of their opponents. The Act of Toleration passed by William III removed some disabilities from dissenters, but the feeling in favour of complete religious toleration is a modern movement. religious toleration is a modern movement

Toll Payment made in return for a privilege They are best known as payments for the use of markets, bridges, roads and rivers In olden times they were made to the king or lord who granted the privilege, and who often found it a valuable source of income To collect the tolls on roads and bridges toll gates were erected, and these were a feature of England in the 18th and 19th centuries Most of them have been 19th centuries Most of them have been abolished

Tolstoy Count Leo Nikolaevitch Russian religious mystic He was born Aug 28, 1828, and attended Kazan University He joined the army, but left it after the slege of Sebastopol (1855), later becoming a fanatical believer in non-violence After marrying in 1862 he settled on his estates, devoting himself to the interests of the peasantry He wrote to the interests of the peasantry He wrote the microsis of the peasantry. He wrote all his life—poems, novels, philosophisings Important works include War and Peace, Anna Karenna, The Kreutzer Sonata What is Arl?, Resurrection The last few years of his life he shared the poor life of the peasants He dicd Nov 20, 1910

Toltec Race once living in Mexico and precursors of the Aztecs who inherited some of their civilisation. Remains of their buildings can be still seen, but little is really known about them Their greatest figure was Quetzalcoatl, who lived in the 9th century, and is the subject of many legends

Toluene Clear liquid with a pleasant the light oils distilled from coal tar and separated by further distillation. By nitration, amidation and sulphonation it is converted into important intermediates for making a number of synthetic dve-stuffs Toluene is also the source of the high explosive, trinitrotoluone

Tomato (Licopersteum esculentum) (Lycopersteum esculentum) S which was captured hanged for treason It is a climbing plant with red prison, Nov 19, 1798 Solanaccae

or golden fruit, and is now a popular article of food Tomatoes are grown extensively England for the market Under glass with heat they can be grown in succession for crops all the year round They can be grown out of doors in any sunny, suitable position, in good soil free from manure

The plants should be placed out in June and slacked as soon as a suitable height is attained. All side shoots should be pinched off, and the plants kept moist, with the roots mulched in very hot weather. If the amount of fruit is great, the plant must be well supported. Green tomatoes can be ripened in a warm sunny room If the season is cold, or utilised for chutney Tomatoes are very rich in vitamins A, B, and C

Form of lottery Tombola ally in Italy and France, and is seen sometimes at bazaars and entertainments in England. Cards, each bearing several numbers, are used When the numbers are drawn any card on which every number is drawn brings a prize to the owner

Tomsk Town of Siberia It is built on two terraces on the right bank of the Tom River, some 25 m above the point where it is joined by the Ob, and is a station on a branch line of the Trans-Siberian Rly The place owes its rise to the discovery of gold in the district in 1824 Manufactures include soap, candles and spirits There is considerable river traffic The university was founded in 1888 Pop 92,418

Tom Thumb Name given to an American dwarf whose real name was Charles Sherwood Stratton. Born at Bridgeport, Conn, in 1838, he was 2 ft 7 in in height, and was exhibited in London in 1844 and 1857 He married another dwarf, Lavinia Warren, in 1863 Charles died in 1883 and Lavinia in 1919

A fairy tale of the same name by Perrault deals with the adventures of a child dwarf

Ton Measure of weight. In Great Britain the American ton is 2000 lb, and is called the short ton, the English one being a long ton. For international purposes the metric ton of 2204 6 lb is much used.

Tonbridge Urban district and market town of Kent It is on the Medway, 29 m from London, and is a junction on the S Rlv The principal building is the restored parish church The gateway of the castle still stands, and the Chequers Inn dates from the 16th century Brewing is an mdustry At Tonbridge is the headquarters of the Kent county cricket club, and a cricket week is held here every year in June Pop (1931), 16,332

Tonbridge School was founded in 1553, and is now a large public school It is controlled by the Skinners' Company, and has extensive modern buildings accommodating 500 boys There is a separate preparatory school

There is a separate preparatory school

Tone Theobald Wolfe Irish patriot He was born in Dublin, June 20, 1763, educated at Trinity College and became a barrister in 1778 Wishing to make Ireland independent, he enlisted the help of the French, and took part in Hoche's unsuccessful attempt at invasion in 1796 Two years later he again embarked with a small French squadron, which was cantured He was condemned to be He was condemned to be but cut his throat in

TONG Village of Shropshire It is 3 m Tong from Shimal, and has a church golden chapel with a fan vaulted roof is notable, and it contains the tombs of the Vernons, and a small library. The existing castle, a hullding in the Mary. vernons, and a small library The existing castle, a building in the Moorish style, dates from 1765 Another Tong, in Kent, near Sittingbourne, is also notable for its church A village in Ross and Cromarty and a town in Yorkshire (W R.), have the same name

Tong-King French protectorate, be tween China and Annam In the forests of the mountainous regions of the N teak abounds The shores of the Gulf of Tong King in the S are flat and swampy The principal river is the Hong King Products include rice, ramle, tin, coal and silk The capital is Hanoi Tong King covers 40,530 sq m The French protectorate dates from 1883 Prior to that it was a province of Annam. Pop (1932) 8,012,429

Tongue Fleshy organ in the mouth human beings is the organ of speech and taste It is covered with a mucous membrane, and at the base is in relation with the epiglottis

and the pharynx.

Tonic Sol-fa System of writing music scale whether founded on the key of C D E or on another tone The key note or tonic note of the scale is called doh, the others suc cessively, ray, me, fah, soh lah, te or, as in print d, r, m, f, s l t Time and accents are marked by dots in tonic sol fa music Higher octaves are marked d r'm lower d r, m

Tonnage Carrying capacity of a ship The gross tonnage is the total space occupied by the vessel, the net tonnage is the space available for carrying cargo In Great Britain a space of 40 cubic ft is regarded as equal to one ton Each country regarded as equal to one ton Each country has its own laws for calculating tonnage, and the registered tonnage is really less than the real tonnage. Shipping dues are usually charged upon the registered tonnage. In the case of warships the tonnage is the weight of the vessel ic, the weight of the water displaced.

Tonnage and Poundage In England a goods It was formerly imposed on English ports in the form of duty on every tun of wine and every pound of goods, whether imported or exported, and was frequently voted direct to the sovereign Under George III the whole custom and every some descriptions of the control of the sovereign of the sovere custom and excise system was reorganised. and tonnage and poundage was abolished

TonquinBean Seed of a leguminous tree of Guiana (Dipleryx oderata) It is a scented bean growing in a short one seeded pod, and is used in perfumery

Tonsi Name of two small glands situated at the entrance to the throat, and placed between the pillars of the fauces or soft palate. The tonsil tissue is lymphoid in character, and the glands nor mally serve to trap and destroy germs in the air passing to the throat. As they so often trand to become sentic especially in children. tend to become septic, especially in children, their removal is advocated by many doctors, if chronically enlarged and infected

Tonsilitis, or initammation of the tonsils, may arise from a cold and is often accompanied by enlargement of the glands Where there is a rheumatic tendency the condition may pass to suppuration resulting in quinsy

Tonsure Rite of shaving the head The custom is observed, as by those who enter the priesthood or a monastic order, as a symbol of self-dedication In the Greek Church the whole head is left bare In the Roman Church only the crown is shaved, so as to leave a fringe of hair all round ("the coronal of S Peter")

Tontine Form of life insurance It banker named Lorenzo Tonti His idea was that a number of persons should subscribe to a fund which is invested and becomes the property of the last survivor In France and Great Britain in the 18th century, the state

Great Britain in the 18th century, the state raised money by tentines.

Toole John Lawrence British comedian 12, 1832, and educated at the City of London School He made his first stage appearance at 20, and in a short time had acquired immense popularity in Ireland and Scotland He arrived in London in 1854, appeared at the Adelphi and the Gaiety, and in 1879 took over the Folly, changing its name to Toole S He toured successfully in America and Australia He rettred in 1896 and died July 30, 1906 A great friend of Irving, he published his Reminiscences in 1889

Toothwort Perennial plant (Lathrea squamaria) of the order Orobranchaceae A British species of a genus of root parasites, it is found chiefly on the roots of hazel bushes in woods and coppies in spring The roots are fleshy, the stems thick and scaly and the flowers a bright purple

Tooting District of London It is in the borough of Wandsworth, It is in and has stations on the underground and other railways Tooting Common, covering 200 acres is a large open space embracing the commons of Tooting Bec and Tooting Grave ney These were at one time separate areas, and are now represented by Lower Tooting and Upper Tooting On the common is a large Asylum The churches of S Nicholas and Holy Trinity are notable

Toowoomba Town of Queensland It is 101 m from Bris bane on a main railway leading inland It is connected by rail with Sydney, and is the centre not only for its immediate neighbour hood, which produces wine and other crops, but also, by means of branch lines, for the surrounding wheat pastoral and timber country Pop (1931) 26,439

Topaz Chemically a fluosilicate of aluminium Used as a gem stone its characteristic colour is yellow, varying from a pale tint to a deep orange It is also white, greenish or blue, and some specimens become plak or red when heated The topaz occurs in gneiss or granite The finest stones are found in Russia and Brazil

Toreador (Lat, taurus a bull) One of the participants in a bull fight He usually fights on horseback.

Tornado Type of whirlwind Torna does travel at an average rate of between 20 and 40 mp h from 6 to 30 m, and devastate the country as they go They are seen as a funnel-shaped cloud, and make a peculiar rearing noise. At sea they are known as waterspouts They are prevalent in the basin of the Mississippi and Ohio

Toronto Capital city of Ontario, Canada Situated on the north shore of

Lake Ontario, it contains the provincial parliament buildings, a great provincial university, many fine schools and libraries, 69 parks, 72 hospitals, and many fine commercial buildings, including the Royal York Hotel, the largest in the British Empire, and the Union Station The Canadian National Exhibition held here to the greatest appeal fair in the world and is the greatest annual fair in the world, and a great agricultural Winter Fair is held here every year There is a fine harbour with accommodation for large vessels, and a fine lakeshore driveway built on reclaimed land A great manufacturing and publishing centre, Toronto is also a fine residential city, served by a municipally owned street-car system and deriving cheap electric power from the publicly owned Hydro-Electric Power Commission It is served by both CP and C.N. Rivs, and has connections by water with Montreal and Great Lakes ports both Canadian and American has several flying fields Pop (1931) 672,982

Torpedo Type of missile used by ships or aircraft It consists of a cigar-shaped receptacle with a high-explosive charge, and was invented by Whitehead in 1870 Besides the charge, each torpedo has an engine which propels it, and it can be directed by means of a gyroscope Torpedoes have a range varying between 7000 and 10,000 vards, and when discharged travel under water, striking the target below the water line Aerial torpedoes are discharged by a special launching gear travel under water, striking the below the water line Aerial torped discharged by a special launching gear

Torpedo Boat Vessel built for carry-ing torpedoes It has been largely superseded by the destrover, the full style of which is torpedo boat destrover, which has a far greater speed and resistance than the original torpedo boat See DESTROYER

Torphichen Coal mining centre of Linlithgowshire It is 4 m SW of Linlithgow The nucleus of the place was a preceptory of the Knights of S John of Jerusalem, on the site of whose church the parish church stands There are remains of the hospital of the knights Pop 4000

Torquay Borough, seaport and watering place of Devon It is situated on Tor Bay, on the English Channel, 26 m S of Exeter It has an equable climate, and this, added to the natural beauty of its sito, makes it popular as a winter resort.

Terra-cotta, clay and marble are found in the neighbourhood There are remains of Tor Abbey, built in 1196 William of Orange landed at Torbay in 1688 Pop (1931)

46,165

Torque Twisted collar of gold or other metal They were worn by some of the early inhabitants of Europe and Asia, especially by the Celts They were formed of bands or bars of the metal twisted spirally The finest extant examples were found in Ireland They were worn on the arms or perhaps round the neck. See also Torsgon Torsion

Torquemada Thomas de Spanish He was born in Valladolid about 1420 He became born in Valladolid about 1420 He became prior of a Dominican monastery, and, in his zeal for the destruction of heresy, induced the pope to create the Holv Office of the Inquisition Appointed first general in 1483, his ruthless methods have made his name a by-word for crucity. He died Sept. 16, 1498

Torrens Lake Shallow lake of S Australia It is about 90 m.

N of Spencer Gulf, in the northern part of the Great Valley Its greatest length is 130 m and its greatest breadth 20 m It was discovered by E J Evre in 1840, and was named after Sir R R Torrens

Torrens Sir Robert Richard He w Australian Cork in 1814, and educated at Trinity College, Dublin In 1840 he went to S Australia, becoming premier in 1857, and conferring enormous benefit on the country by his Act known as the Torrens Act—which substitutes public registration of land for the cumbrous system of conveyancing This system became general throughout Australia by 1862 He returned to England in 1863, sat as a Liberal 1868-74, and died Aug 31, 1884

Torres Strait Strait between Queens-It is 90 m wide, and in it are a number of islands. The strait, discovered by Torres in 1606, is noted for its pearl fisheries

Torres Vedras Town in Portugal. from Lisbon Near here, during the Peninsular War, Wellington constructed the famous fortifications known as the "Lines of Torres Vedras," which he successfully defended during the winter of 1810. Pop. 7000 during the winter of 1810 Pop 7900

Torridge River of Devonshire It rises in the N of the county, and near Barnstaple falls into the estuary of the TawIt passes by Bideford.

Torridon Village and sea loch of Scotland. The village stands on the loch, which is an opening of the sea into the W coast of the county of Ross and Crompeter. Cromarty

Torrington Borough and market town of Devonshire An agricultural centre, it is 7 m S of Bideford and 226 from London by the S Rly Gloves are manufactured Here is a blue-coat school, founded in the 17th century Pop (1931) 2913

Tor Royal Devonshire residence of the King when Prince of Wales It is near Princetown

Torsion Term in mechanics It is used for the strain produced in a body such as a bar or wire when the parallel planes are twisted round a perpendicular axis by a torsion force acting at a certain distance from the axis. The product of the magnitude of the force and its distance is termed the torque, and the quotient of the torque by the sectional area of the body which is twisted, is known as the torsional stress. is twisted, is known as the torsional stress

Tort In English law a class of wrongs not breaches of contract, but for which are nensation or damages may be awarded Trespassing and doing damage on land is a case of tort. An infant is responsible for his torts, although not for his contracts, and a husband is responsible for his wife's torts.

Tortoise Land reptiles of the order Cheloma, which includes also turtles and terrapins (q v) It is characterised, like these, by a box-like armour beneath which head, limbs and tall can be withdrawn for security The dorsal and ventral carapaces of horny maternal overlie bony shields formed from the ribs, etc. Tortoises belong to the warm regions Five European species—from 6 in long to the giant tortoise of Galapagos Is.,

which may attain a length of 5 ft —are known The handsome mottled tortoise shell of commerce is obtained from one of the turtles, the hawksbill (C imbricata)

Torture Extreme physical pain inflicted for judicial purposes In an part of punishment or to extort a confession For the latter purpose it persisted until comparatively modern times It was never recognised as legal in England but was practised exten It was never recognised stycity, reaching its culmination in the reign of Elizabeth In Scotland it was retained until much later, and obstinate prisoners were sometimes transferred from England to Scotland to be examined by torture Type the rack, the boot and the thumbserew Types were

Tory Name of an English political party Used for robbers in Ireland, it was employed as a term of contempt in England for the supporters of Charles I and Charles II It was used derisively for those who opposed the proposal to exclude James, Duke of York, from the throne—It soon became the accepted name of the party opposed to the Whigs, and remained so until about 1832, when it was superseded by Conservative The early superseded by Consorvative The early leaders of the party were Bollingbroke and St. John, and the later ones Wellington and Peel. It is now used for members of the Unionist Party See Conservative An island off the coast of Donegal, Irish Free State, is called Tory Island.

Sir Francesco Paolo Italian song-Tost Sir Francesco Paolo Italian song-writer He was born at Ortona, Abruzri, April 9, 1846, studied in Naples, and became singing master to Princess (later Queen) Margherita, and later to the English Royal Family In 1894 he was made Professor of Singing at the Royal College of Music He composed many hundreds of songs, "Good-bye' being probably the most popular He was knighted in 1908, and died in Rome, Dec 2, 1916 Dec 2, 1916

Totalisator Machine used for betting on horse and dog races, and also other sporting events. They are worked by electricity and automatically worked by electricity and automatically record the number of bets on a given horse or dog, and the amount of money that the winners receive Long used on the continent of Europe, in Australia and elsewhere, they were first permitted in England in 1928 were first permitted in England in 1928
They can be used in racing clubs, but the consent of the Betting Control Board is necessary
before they can be erected on courses where
horse races are run Totalisator betting was
prohibited on greyhound tracks in 1933 but
was restored as from July, 1935, subject to
certain restrictions such as the nature of the
bet the number of prectings etc. bet, the number of meetings, etc

Totemism Primitive religious belief It was held by the ancient Britons, Hebrews and Greeks and is still in vogue among the Australian aborigines and N American Indians Totemism rests on the helief in a blank of the statement of N American Indians Totemism rests on the belief in a blood relationship between the members of a tribe and a plant or animal, the latter being assumed as an emblem and often as an object of worship

Totnes Borough and market town of of Exeter, 203 m from London by the G W Rly... and stands on the Dart. The town has a 16th-century grammar school, and ruins of a castle. It is visited by tourists, and steamers go along the Dart. Pop (1931) 4525

Tottenham Urban district of Middle-city and is served by the LNE and LMS Rlys The buildings include Bruce Castle with its grounds and the hospital Tottenham Court Road leads from Charing Cross Road to Hampstead Road Pop (1931) 157,748

Tottenham Hotspur Association
It was founded by some boys at Tottenham
in 1882, and in 1895 became a professional
organisation. It became a member of the
Southern League in 1896, and in 1909 entered
the League proper In 1901 and again in
1921, the club won the Association Cup
The ground is in High Road, Tottenham

Tottington Urban district of Lanca-shire A centre of the cotton industry it is 21 m N W of Bury and 199 from London by the L MS Rly Pop (1931) 6532

Toucan Bird of the family Rham-hastidae, of tropical 8 America Allied to the barbets, toucans have vividly coloured bill and plumage, the former very large, though light and thin-walled. They inhabit forest regions and feed on fruit, insects etc Bird of the family

Touchstone Stone used for testing the purity of gold alloys It is a black variety of quartz When rubbed It is a black variety of quartz When rubbed across it, the gold leaves a streak which is then moistoned with an acid of 784 per cent nitric acid, 16 per cent of hydrochloric acid and 20 per cent of water An examination then tells the expert the nature of the alloy It is sometimes called Lydian stone because a superior of the alloy and the results of the superior and the results of the superior and the state of the state of the superior and the superior and the superior and the state of the superior and quartz from Lydia was used for this purpose

Touchwood Tree fungus order Polyorder pornus ignianus It grows on beech and other forest trees, and smoulders away if ignited

Toulon Scaport and principal naval Mediterranean, 42 m SE of Marseilles The Roman Telo Martius, it was sacked by Goths, Roman Telo Martins, it was sacked by Goths, Burgundians, Saracens and Franks Here Henry IV established an arsenal which was strengthened by Richelleu and fortified by Vauban. At the Battle of Toulon, in 1744, the English fleet, under Admiral Mathews was defeated by a combined French and Spanish fleet. It was at the slege of Toulon in 1793 that Nanolean first distinguished lings!

Napoleon first distinguished himself
Toulon, which has a fine harbour on the
bay, is very strongly fortified and is the head
quarters of the French Mediterranean fleet.
The arsenal and shipbuilding provide important
industries, others are fishing and wine industries, others are fishing and wine growing Salt, figs, raisins, almonds, oranges, cork, soap, etc., are exported. The chief buildings are the former cathedral, the naval and military hospital, naval school of medicine, the hospital of S Mandrier and the lazarette hospital of S Mandrier and the lazarette hand the characteristics (2024 M 21). There is a broadcasting station (385 M, 8 L W) Pop (1931) 133,263

Toulouse City of SW France, on the S saturnin has the largest Romanesque basilica extant, parts of the cathedral date back to the 11th and 13th centuries, and there are many old houses. Toulouse has factories, including the national tobacco factory, and important agricultural markets, as well as two wireless stations (385 M., 8 kW and 255 M., 9 7 kW)

which may attain a length of 5 ft.—are known The handsome mottled tortoise shell of commerce is obtained from one of the turtles, the hawkebill (C imbricata)

Torture Extreme physical pain inflicted for judicial purposes In an clent times it was inflicted either as part of punishment or to extort a confession For the latter purpose it persisted until compara-tively modern times It was never recognised as legal in England, but was practised exten streiv reaching its culmination in the reign of Elizabeth In Scotland it was retained until much later, and obstinate prisoners were sometimes transferred from England to Scotland to be examined by torture Types were the rack, the boot and the thumbscrew

Tory Name of an English political party Used for robbers in Ireland, it was employed as a term of contempt in England for the supporters of Charles I and Charles II It was used derisively for those who opposed the proposal to exclude James, Duke of York, from the throne—It soon became the accepted nome to the party opposed to the Whigs, and remained so until about 1832, when it was superseded by Conservative The early leaders of the party were Bolingbroke and St. John, and the later ones Wellington and Peel. It is now used for members of the Unionist Party See Conservative

An island off the coast of Donegal, Irish Free State, is called Tory Island

Tosti Sir Francesco Paolo Italian song-writer He was born at Ortona, Abruzzi, April 9, 1846, studied in Naples, and became singing master to Princess (Inter Queen) Marghorita, and later to the English Royal Family In 1894 he was made Professor of Singing at the Royal College of Music He composed many hundreds of songs "Good bye' being probably the most popular He was knighted in 1908, and died in Rome, Dec 2, 1916

Totalisator Machine used for botting on horse and dog races, and also other sporting events They are and also other sporting events. They are worked by electricity and automatically record the number of bets on a given horse or dog, and the amount of money that the winners receive Long used on the continent of Europe, in Australia and elsewhere, they were first permitted in England in 1928. They can be used in racing clubs but the consent of the Betting Control Board is necessary sent of the Betting Control Board is necessary before they can be crected on courses where horse races are run Totalisator betting was prohibited on greyhound tracks in 1933 but was restored as from July, 1935, subject to certain restrictions such as the nature of the bet, the number of meetings, etc

Totemism Primitive religious belief It was hold by the ancient Britons, Rebrews and Greeks and is still in vogue among the Australian aborigines and N American Indians Totemism rests on N American Indians Totemism rests on the belief in a blood relationship between the members of a tribe and a plant or animal, the latter being assumed as an emblem and often as an object of worship

Totnes Borough and market town of Devonshire. It is 23 m. S.W. of Exeter, 203 m from London by the G.W. Rly., and stands on the Dart. The town has a 16th-century grammar school, and ruins of a castle. It is visited by tourists, and stamers go along the Dart. Pop (1931) 4525

Tottenham Urban district of Middle-city and is served by the LNE and LMS Riys The buildings include Brace Castle with the grounds and the hearts. with its grounds and the hospital Tottenham Court Road leads from Charing Cross Road to Hampstead Road Pop (1931) 167,748

Tottenham Hotspur Association footballelub It was founded by some boys at Tottenham in 1882, and in 1895 became a professional organisation. It became a member of the Southern League proper In 1901 and again in 1921, the club won the Association Cup The ground is in High Road, Tottenham

Tottington Urban district of Lancacotton industry it is 2½ m N W of Bury and 199 from London by the LMS Rly Pop (1931) 6532

Toucan Bird of the family Rham-phattidae, of tropical 8 America Allied to the barbots, toucans have vividly coloured bill and plumage, the former very large, though light and thin walled. They inhabit forest regions and feed on fruit, insects, etc.

Touchstone Stone used for testing the purity of gold alloys It is a black variety of quartz When rubbed It is a black variety of quartz. When rubbed across it, the gold leaves a strenk which is then moistened with an acid of 78 4 per cent nitric acid 16 per cent of hydrochloric acid and 20 per cent of water An examination then tells the expert the nature of the alloy It is sometimes called Lydian stone because a quartz from Lydia was used for this purpose

Touchwood Tree fungus of the natural order Polypornus igniarius It grows on beech and other forest trees, and smoulders away if ignited Touchwood Tree fungus order

Toulon Seaport and principal naval Mediterranean, 42 m. Se of Marseilles The Roman Telo Martius, it was sacked by Goths, Roman Telo Martius, it was succed by Goods, Burgundians, Saracens and Franks Hero Henry IV established an arsenal which was strengthened by Richelfen and fortified by Vauban. At the Battle of Toulon, in 1744, the English fleet, under Admiral Mathews was defeated by a combined French and Spunish fleet. It was at the stege of Toulon in 1793 that Nanclean first, distinguished himself Napoleon first distinguished himself

Toulon, which has a fine harbour on the bay, is very strongly fortified and is the head quarters of the French Mediterranean fleet. The arsenal and shipbuilding provide important industries, others are fishing and wine growing Salt figs, raisins, almonds, oranges, cork, soan, etc., are exported. The older buildings are the former cathedral the naval and military hospital, naval school of medicine, the hospital of S Mandrier and the lazaretto. There is a broadcasting station (385 M , 8  $\pm$  W ) Pop (1931) 133,263

Toulouse City of SW France, on the S saturnin has the largest Romanesque basilica extant, parts of the cathedral date back to the 11th and 13th centuries, and there are many old houses. Toulouse has factories, including the national tobacco factory, and important agricultural markets, as well as two wireless stations (385 M., 8 kW and 255 M., 0 7 kW)

in 1660 This lasted until 1782 and was kept separate from the other funds and replaced in 1786 by a committee of the Council provided that no member could be compelled on Trade under a president. The president, to contribute to the political funds, who is a member of the Cabine' is assisted by The political side of the Trade Union Movea Parliamentary and a permanent secretary and a large staff. The duties of the board include the control of shipping and mines. Trade marks and patents are within its province as are all matters affecting trade with other nations It administers the company and bankraptey laws and is concerned with duties on imports With the Foreign Office it controls the Department of Overseas Trade The board issues ment of Overseas Trade The board issues monthly the Board of Trade Journal, which deals with trade matters

Trade Board Organisation set up in Great Britain. In cetain industries it exists for fixing rates of pay the mines have very strong union. The first were established in 1909 in four Umon Moment has spread to other countries in which the conditions of labour and there are poverful unions in the United Industries in which the conditions of labour. States, Australia and elsewhere Each board consists of States, Australia and elsewhere were unsatisfactory Each board consists of an equal number of employers and employed an equal number of employers and employed with an independent chairman. The boards are controlled by the Ministry of Labour. They exist for the following trades: tailoring, box making, chair making lace finishing, confectionery making, food preserving shirt making, laundry work and milk distribution.

Trade Mark Distinctive mark placed for sale The trade mark may be any device, label, ticket. heading, signature, word letter or numeral. If the mark is a word it must be an invented word, such as Hovis, not one that is in general use, or the name of a place or person Trade marks are protected by law provided they are registered. They can be registered at the Patent Office, Southampton Buildings London. W C 2 Marks on cotton goods can be registered in Manchester, on metal goods in Shoffield. See Patenta. in Sheffield. See PATENT

Trade Union Association of workers Such associations are almost as old as industr Britain from 1824 when the laws, which had been passed in the 18th century forbidding combinations of masters and workmen, were repealed. About the middle of the 19th century the unions became more active and in 1868 the first Trade livery forbidding to the 19th century the unions became more active and in 1868 the first Trade livery forbidding to an 1809.

Traffic Passing to and fro, especially of vehicles The introduction of the motor vehicles and the rapid increase in their regulation of traffic difficult. It is done in the major by the notice but other systems have been major by the notice but other systems have been passed. 1868 the first Trade Union Congress was held suggested including the enrolment of a special 1868 the first Trade Union Congress was field a At first there were many unions, each with a small membership, but soon a policy of amalgamation began. In 1884 the weavers formed themselves into a large union or federation and in 1883 the coal miners did the same. In 1889, to give still more unity to the movement, the General Federation of Trade Unions was set up.

Other events of note were the first election of trade unionists to Parliament in 1874 the introduction of the Trade Union Novement among agricultural labourers by Joseph Arch in an extended form

ordered the political funds of the unions to be new driver.

ment has overshadowed the great vork they do as friendly societies. They pay out to members large sums during times of illness and unemployment, and in connection with them are approved societies under the National Health Insurance Scheme. They also as ust in working the National Scheme of Insurance nemalorment

against In 1934 there were in the United Kingdom 449 unions the total membership of the 19 industrial groups, excluding employers asso-ciations, being 513 097. The income for 1934 was \$10.1.132. The transport vorters and

Trade Wind Persistent wind Always tudes, in the northern hemisphere it blors towards the Equator from the N.E., in the southern from the S.E. In the days of sailing ships it was of the greatest importance to trade, hence the name It pre-ails in the Atlant.c and Pacific Oceans, and in nences rainfall and climatic conditions generally

Trafalgar Spanish Cape It is situated the scene of the famous battle on Oct 21 1805, when Nelson defeated the combined French and Spanish Dects under Villeneure Nelson himself was killed in the hour of victor-last order was the historic message. En England expects every man this day to do his dut-

Trafalgar Square Aream London. It as laid out to celebrate the victory at Trafalgar, and in it is the Nelson Column, 145 ft high, with a statue of the hero at the top and four bronze hons by Sir E Landseer at the bottom This was completed in 1867.

main by the police, but other systems have been

force for the purpose Since the Great War automatic signals have been introduced for the control of traffic. These take the form of lights, green to proceed and red to stand still, they are changed at stated intervals, and are controlled from a central operating station. Another unovation is the restriction of traffic in certain streets to one The roads are marked with white lines, TETT sometimes down the centre and sometimes to show stopping places and direction marks are prominently displayed. In Great Britain read traffic is controlled by the Ministry of Tansport among agricultural labourers by Joseph Arch and the formation of a union of women workers An Act passed in 1875 made peaceful picketing legal In 1901, in a famous law case called the Tain Vale, the House of Lords decided that the unions were liable for the illegal acts of their softicals and that compensation for camages could be obtained from their funds. In 1906, of the unions were protected from liability and peaceful picketing was allowed in successing and direction marks are prominently displayed. In Great Britain road traffic is controlled by the Ministry of Transport and the police jointly, and was dealt with in an important series of Acts in 1930, 1931–1133 and important series of Acts and pedestrians. Licensing and registration lighting, identification and insurance are carefully dealt with, and the 1934 Act introduced the speed limit of 50 m.p.h. vithin built-up. This lested until 1927 and then the law the speed limit of 50 mp b within built-up was again altered. In addition to declaring larges. It also made compulsors a standard a general strike illegal, the act of that year drying test before the issue of a licence to a The council elects every year a mayor who presides over its meetings and is the official head of the town Each has a paid official called the town clerk, and a staff of officials In Scotland the aldermen are called baillies and the mayors are provosts The powers of the councils vary, according to the size of city, borough or burgh

Town Planning Phrase used for laying out an area in order to give it a pleasing appearance and ensure healthy conditions Something of this kind was done in the 19th century when new towns were planned, especially in the United States, and where land was plentiful United States, and where tand was plenting in 1919 in England a law was passed to en courage town planning, and other Acts followed The law was consolidated in 1925, in 1932 its scope was further defined and the measure of 1933 vested extensive powers in the local authorities

The effect of the laws is to enable these authorities to make plans for any area that is They can restrict the number of built over houses per acre provide open spaces and make other regulations that will prevent the district from becoming a slum area. They can improve areas in which housing conditions are bad, make roads and build houses

Townshend Sir Charles Vere Ferrers English general He was born Feb 21, 1861 joined the India Army in 1886 and served in the 1891 expedition Army in 1886 and served in the 1891 expedition to the Himalayas and in Chitral in 1895 In April, 1915, he commanded the Sixth Division in Mesopotamia, where he captured Kut al Imara in Sept., 1915 Here, however, he was later besieged, being forced to surrender, April 29 1916 He was interned till 1918 and he died May 18, 1924

TOWNShip a district of England in Anglo Saxon times It is practically the same as village In Canada and other parts of the British Empire, it is used to day for a setter ment not large enough to be a town or city

ment not large enough to be a town or city

Townsville Seaport of Queensland, Situated on Cleveland Bay, it trades in sugar and exports the produce of the district. It is the terminus of the N Q Rly Pop (1931) 32,050

Towton Village of Yorkshire Here on March 29, 1461, the Yorkists won a decisive victory in one of the most important of the battles of the Wars of the Roses

Towy River of Wales It rises in Cardi ganshire and flows in a southerly direction, by Llandovery and Carmarthen, to enter Carmarthen Bay by an estuary It

Towyn A seaside resort, it is situated on Cardigan Bay, 12 m from Aberystwith and 232 from London by the GW Rly Pop (1931) 3803

Toy Children's toys, or playthings, have varied little with the ages Dolls and toy animals still remain with which the children of ancient Lgypt played In Greek and Roman times there were dolls miniature furniture and balls of different sizes, including one blown out like the modern football The top is mentioned by Virgil, and has never waned in popularity

hand made toys are made by peasants in the Black Forest and Switzerland

Toynbee Arnold English social reformer He was born in London, Aug 23, 1852, and educated at Oxford, Belicving that only those could help the poor who lived among them, he took lodgings in Commercial Road Whitechapel, co operating closely with Canon Barnett His health gradually gave way, and he died March 9, 1883 Toynbee Hall was opened in 1884 as a memorial to him, with Canon Barnett as its first warden It is a college and social centre, where university men go into residence, provide facilities for education and recreation, and formulate plans for promoting the general welfare of the poorer classes, and is the model on which similar institutions in other parts of the world have been founded

Tracery In architecture the stone frame work seen at the head of Gothlo windows It is formed by a continuation of the mullions which are bent to form an ornamental design At first it consisted of geometrical forms, but later the designs became more free

Trachea The windpipe, which extends from the larynx to the two bronchial tubes into which it divides. Its walls are strengthened by a series of cartila ginous rings incomplete at the back, where lies the oesophagus. In diphtheria and other throat diseases it is opened sometimes to prevent surfacetion. prevent suffocation

Tracheotomy Surgical operation By the trachea is opened to admit the insertion of a metal tube to allow air to pass to the lungs in cases of ob struction, disease of the larynx or other parts of the upper respiratory passage as in the case of diphtheria

Trachodon Extinct animal It was and fossil remains have been found in the west of the United States It resembled the iguanodon Tractarian porter of the Oxford Movement It is due to the fact that its ideas were contained in Tracts for the Times See OXFORD

MOVEMENT

Traction Act of drawing something along a road, or other land, or waterway A locomotive used for drawing vehicles along the road is called a traction engine A traction wheel is a locomotive driving wheel which acts by frictional adherence to a smooth track

Tractor Word used for a traction en gine It is especially applied to the kind used for ploughing, the horses being replaced by power obtained from steam or oil The word tractor is also used for an aeroplane with the screw or screws in front

A caterpillar tractor is one in which the wheels are replaced by metal belts, for travel over rough country

Trade Commerce This term implies the exchange of commodities for pur poses of gain. The word is also used for the organisation and workers of a particular trade Trade has increased greatly with the advance of civilisation, but in 1932 a serious contraction of world trade was reported, due, in part at least, to the system of tariffs See BALANOE OF TRADE, TRADE BOARD, ETO

Trade Board of Department of the British Government It originated Department of the More elaborate toys, such as model train | 1 Taue British Government It originated sets, are now largely made in England, while in the Board of Trade and Plantations, founded Transfiguration Feast of the. One of the twelve great ecclesiastical feasts which rank after Easter in importance. It commemorates the incident in the life of Christ described in Matt will and is celebrated by both Greek and Roman Churches on Aug 6. The feast is said to have been instituted by Pope Calixtus III. (1455-58), but earlier allusions to it have been discovered.

Transformer Torm used in electrical engineering. It is applied to the device for producing from one alternating electric current, another of a different voltage, and strength There are many types but essentially a transformer consists of two insulated coils wound upon a laminated iron core, one coil of fine wire with many turns the other or primary coil of coarse wire with few turns, the change in voltage depending upon the rates of the numbers of turns. In wireless, a transformer of a special type is used in some receivers for coupling the velves.

Transfusion Medical term It is adopted at the present time in certain cases of collapse of transferring blood from a healthy person to a patient See Brood Transfusion

Transit In astronomy the passage of a heavenly body over the meridian of a place Transits are very important to astronomers, especially the trunsits of Venus, which enable them to calculate the distances of the sun from the earth A transit circle is an instrument for ascertaining the correct time of a transit. It consists of a telescope capable of rotation only in the plane of the meridian with a divided circle on either side of it and elaborate mechanism for registration purposes

Transmigration of the Soul See Transmission See Power Transmission MISSION

Transom In architecture a bar or beam laid horizontally across a window or door It is of wood or stone and is often seen in the windows of Gothic buildings, where it divides the window into an upper and a lower part.

Transport Ministry of Department of was established in 1919 and until 1922 was in control of the railways It still exercises a certain amount of control over them, but its main business is concerned with the care and improvement of the roads See Roads

Transportation Punishment for criminals By this they are sent to a penal settlement in a distant land. From England prisoners were sent to the plantations in America, a practice which lasted throughout the 17th century and until the independence of the United States in 1783 In 1783 convicts were first sent to Botany Bay in Australia, but this ceased in 1840 From then until 1853, when transportation from England ceased, they were sent to Tasmania.

Australia, but this ceased in 1840 From then until 1853, when transportation from England ceased, they were sent to Tasmania.

In Russia, under the Tsars, there was much transportation of prisoners to Siberia, and the system is still practised in France and other countries Transportation differs from banishment The latter morely sends the offender out of the country, allowing him to go where he likes Transportation sends him to a definite place for a definite period under supervision.

Transubstantiation Theological term It denotes the belief held by the Roman Catholic Church that "the whole substance" of the Eucharistic bread and wine are changed, in virtue of their consecration, into the body and blood of Christ.

Transvaal Province of the Union of S Africa Lying in the north cast, it is entirely inland. It was first settled by farmers from the Cape, intolerant of English control, and became a republic in 1852, but was annexed by the British in 1877 Self-government for internal affairs was recognised in 1881, but the country was again annexed in 1900 Responsible government was granted in 1906, and it became one of the original provinces of the Union in 1910

The I ransval consists of a high plateau, largely excellent stock country, principally levoted to cattle and sheep, but there is much good agricultural land, maize and tobacco being important crops. The chief asset of the province is its mineral wealth especially gold and d'amon is from the Witwatersmand area in the neighbourhood of Johannesburg, which celebrated its jubilee in Jan , 1936 Railways are well developed, forming part of the Union railway system, and connect the capital, Pretoria, with other centres and with Delagoa Bay Area 110,450 sq m Pop 2,187,636, Europeans (1931) 695,963

Transylvania District of Rumania, it is a high piateau surrounded by a continuation of the Carpathians (qv) Desorted by the Romans A p 271, it was tall en by Hungary in 1003 In 1526, after the Hungarian defeat by the Turks, it became independent. Transylvania welcomed the Roformation, and under George Rakoczy I (1631-48) was the leading champion of Protostantism in Eastern Europe Reduced to vassalage by the Turks, however, in 1661, Transylvania, after the Turkish defeat at Vienna in 1683, came under the Hapsburgs as part of Hungary The privileged Saxon and Magyar communities now lost much of their supremacy, and the Rumanian peasantry rose until, in the early 19th century a Magyar revival took place, the attempt at rounion with Hungary in 1848 leading to fighting between the Rumanian and Saxon and the Magyar factions Transylvania was part of Hungary until 1918, when union with Rumania was proclaimed on Dec 1 Area 22,312 sq m Pop 2 678,367

Trappist Member of a branch of the Cistorolan religious order. It was founded by Dominique A. J. le B. de Rancy, who lived from 1626-1700. De Rancy reorganised the monastery of La Trappe in Normandy and himself became its regular abbot in 1664. The Trappist monks are vowed to strict silence, hard labour and seclusion from the world, and no wine, meat, eggs, fish or seasoning was permitted in their diet.

Travancore Native state of India, in Madras It occupies the western side of the southern Decean, and stretches more than 150 m along the coast as far as Cape Comorin The surface is un dulating, with mountains in the east, and the coast is fringed with lagoons. Products include teak, pepper, coffee rubber and copra The maharaja is entitled to a salute of 19 guns The area is 7625 sq m Pop 4,000,000.

Tragedy Form of drama It is the name given to a type of drama which has for its subject the misfortunes of human beings, presented in such a way as to arouse the pity and sympathy of the spectators It originated in Greece, in the "goat song," or digge, accompanying the sacrifice of a goat to Dionysos, and reached, in Athens during the 5th century BC, a level of beauty and dignity which has not since been surpassed except possibly by the tragedies of Shakespeare

## Train Ferry See Ferry

Training Ship Ship for training boys are several of these establishments in Great Britain both for the navy and the mercantile Britain both for the navy and the mercannic marine Of the former may be mentioned the Warspite and the Archiusa, lying off Grays and off Greenhithe respectively The Worcester, training ship for officers of the mercantile marine lies off Greenhithe also, and the Indefalyable is at Rock Ferry, Birkenhead There is also the reformatory ship Cormoall lying off Denton, Gravesend

Trajan (Marcus Ulpius Trajanus) Roman emperor, A D 98-117 He was born in Spain, Sept 18, 52 and adopted by Nerva in 97 Under him, the empire reached its widest extent for he made Dacia, Meso potamia, Armenia and Assyria Roman provinces Although his military expeditions entailed long absences from Rome, he saw to it that all details of good government were carried out. He built many new bridges, roads and out He built many new bridges, roads and canals established libraries, built the Forum Trajanum, restored the Via Appla. He died in Cilicia in Aug., A.D. 117

Trajectory Term in physical science it is applied to the curved path of a body and formed by the science certain propelling forces as in the case of a planet, or more especially as applied in ballistics to the path taken by a projectile when dis charged from a gun and due to the initial velocity, air resistance and action of gravity

Tralee County town and seaport of Co Kerry, Irlsh Free State It is situated on the bay of the same name, 21 m from Killarney not far from the estuary of the river Lee, and is a junction on the GS Rlys Butter and grain are exported The town had its nucleus in a Dominican monastery, founded in 1213 The cathedral of Ardfert, some 4 m N W of Tralee, now forms part of the see of Limerick Pop (1926) 10,553

Trammel Net Species of fishing net it is used principally off the rocky shores of the English Channel It is composed of three nets, the outer two of a coarse mesh, the inner one finer and hanging more loosely. They are so placed that the fish penetrate the coarse mesh and, striking the inner net, carry it through the meshes of the third net, thus imprisoning themselves inextricably

Tramway Track along which street cars are drawn or propelled by electricity The earliest trams were drawn by horses, and were introduced into England about the middle of the 19th century

Electric trams are run either by overhead wires, or by one of several underground systems In some systems the car carries its own power while in others the power is derived from a central power station. The rails are laid on a concrete bed, usually with a gauge of

4 ft 81 in In large cities cars are made with two decks to accommodate more passengers Sometimes they move underground for part of their journey, a notable instance being the London subway from the top of Kingsway down to the Victoria Embankment Some down to the Victoria Embankment Some towns (eg, Nottingham) have adopted a trackless, overhead tramway system, the vehicles being fitted with pneumatic tyres

Trance State of sleep like insensibility when accompanied by muscular rigidity it is known as cataleps. It is of rare occurrence and appears to be of nervous origin. It may be regarded as indicative of some neurological disease or hysteria. A form of trance may also be induced under hypnosis

Tranent Burgh of E Lothian A colliery centre, it is 10 m from Edin burgh and is served by the LNE Rly Pop (1931) 4526

District S of the Transcaucasia Mount Caucasus ains Formerly applied to the provinces and governments of Russian Caucasia, with the exception of the provinces of Terek and Kuban, and the Government of Stavropol, and forming part of the Russian Empire, it was in 1919 the scene of prolonged fighting between the Tartars, Armenians, Georgians and other peoples inhabiting the district Eventually Armenia, Azerbaijan, and Georgia agreed to join the Union of Soviet Republics, and in 1922 the Transcaucasian Socialist Federated Soviet Republic was established, consisting of these three republics together with an autonomous district, and the Batum area

Transcendent (and Transcendental)
ligious terms In philosophy, transcendental
was used by Kant to denote a priori principles
eg, causality, which are presupposed in and
necessary to experience, and in the Kantian
philosophy transcendent is applied to doctrines
eg, the those of natural theology, which are not  $e\,g$ , those of natural theology, which are not realisable in experience in religion, the doctrine of the transcendence of God em phasises the existence of the Divine Being apart from the material universe and His freedom from its limitations

Transcendentalism denotes a school thought represented by Emerson, which defends the idea of an intuitive perception of divine truth in opposition to dogmatic rationalism.

Transept Section of a building which main body, giving it the shape of a T or a cross Transepts became a common feature of Byzantine work in the 8th century, and are found in a highly developed state in the Norman ecclesiastical architecture of France and Exceland being used for additional alters. England, being used for additional alters

Transfer The handing over, or conveyance of anything from one place or person to another The term is also used for the form, manner or method by which it is done Designs and drawings are transferred by means of transfer papers to the surface of material, pottery and stone

The transfer of stocks and shares is bound the publisher of burners and shares is bound to the publisher of burners and shares is bound.

up with the formalities of buying and selling of stocks and shares, and the transfer often takes the form of deeds which have to be duly signed and sealed before the shares belong to the new owner The transfer of land is attended by more elaborate formalities. See CONVEY-

Transfiguration Feast of the. One of ceelesiastical feasts which rank after Easter in importance It commemorates the incident in the life of Christ described in Matter II and is celebrated by both Greek and Roman Churches on Aug 6 The feast is said to have been instituted by Popo Calixtus III (1455-58), but earlier allusions to it have been discovered.

Transformer Term used in electrical engineering It is applied to the device for producing from one alternating electric current, another of a different voltage, and strength. There are many types but essentially a transformer consists of two insulated coils wound upon a laminated iron core, one coil of fine wire with many turns, the other or primary coil of coarse vire with few turns the change in voltage depending upon the rates of the numbers of turns. In wireless a transformer of a special type is used in some receivers for coupling the voltes.

Transfusion Medical term It is adopted at the present time in certain cases of collapse of transferring blood from a healthy person to a patient See Brood Transfusion

Transit In astronomy the passage of a heavenly body over the meridian of a place. Transits are very important to astronomers, especially the transits of Venus, which enable them to calculate the distances of the sun from the earth. A transit circle is an instrument for ascertaining the correct time of a transit. It consists of a telescope capable of rotation only in the plane of the meridian with a divided circle on either side of it and elaborate mechanism for registration purposes

Transmigration of the Soul See Transmission See Power Trans-

Transom In architecture a bar or beam laid horizontally across a window or door It is of wood or stone and is often seen in the windows of Gothic buildings, where it divides the window into an upper and a lower part

Transport Ministry of Department of the British Government. It was established in 1919 and until 1922 was in control of the railways. It still exercises a certain amount of control over them, but its main business is concerned with the care and improvement of the roads. See Roads

Transportation Punishment for criminals. By this they are sent to a penal settlement in a distant land. From England prisoners were sent to the plantations in America, a practice which lasted throughout the 17th century and until the independence of the United States in 1783 In 1783 convicts were first sent to Botany Bay in Australia, but this ceased in 1840 From then until 1853, when transportation from England ceased, they were sent to Tasmania

Australia, but this ceased in 1840 From then until 1853, when transportation from England ceased, they were sent to Tasmania

In Russia, under the Tsars, there was much transportation of prisoners to Siberia, and the system is still practised in France and other countries Transportation differs from banishment. The latter merely sends the offender out of the country, allowing him to go where he likes. Transportation sends him to a definite place for a definite period under supervision.

Transubstantiation Theological notes the belief held by the Roman Catholic Church that "the whole substance" of the Eucharistic bread and wine are changed, in virtue of their consecration, into the body and blood of Christ.

Transvaal Province of the Union of S Africa Lying in the north east it is entirely inland. It was first settled by farmers from the Cape, intolerant of English control, and became a republic in 1852, but was annexed by the British in 1877. Self-government for internal affairs was recognised in 1891 but the country was again annexed in 1900 Responsible government was granted in 1905 and it became one of the original provinces of the Union in 1910

provinces of the Union in 1910

The Transvaal consists of a high plateau, largely excellent stock country, principally levoted to cattle and sheep, but there is much good agricultural land, maize and tobacco using important crops. The chief asset of the province is its mineral wealth especially gold and d'amon's from the Vitwatersmand area in the neighbourhood of Johannesburg, which celebrated its jubilee in Jan, 1936. Railways are well developed forming part of the Union railway system, and connect the capital, Pretoria, with other centres and with Delagon Bay. Area 110,450 sq. m. Pop. 2,187,636, Europeans (1931) 695,963

Transylvania District of Rumania, It is a high piatern surrounded by a continuation of the Carpathians (qr) Deserted by the Romans & p 271, it was taken by Hungary in 1003 In 1526, after the Hungarian defeat by the Turks, it became independent. Transylvania welcomed the Reformation, and under George Raloczy I (1631-48) was the leading champion of Protestantism in Eastern Europe Reduced to vassalage by the Turks, however, in 1661, Transylvania, after the Turkish defeat at Vienna in 1683, came under the Hapsburgs as part of Hungary The privileged Saxon and Magyar communities now lost much of their supremacy, and the Rumanian peasantry rose until, in the early 19th century a Magyar revival took place, the attempt at reunion with Hungary in 1848 leading to fighting between the Rumanian and Saxon and the Magyar factions. Transylvania was part of Hungary until 1918, when union with Rumania was proclaimed on Dec 1 Area 22,312 sq m Pop 2 678,367

Trappist Member of a branch of the Cistercian religious order. It was founded by Dominique A. J. le B. de Raney, who lived from 1626-1700. De Raney reorganised the monastery of La Trappe in Normandy and himself became its regular abbot in 1664. The Trappist monks are vowed to strict silence, hard labour and seclusion from the world, and no wine, meat, eggs, fish or seasoning was permitted in their diet.

Travancore Native state of India, in Madras It occupies the western side of the southern Deccan, and stretches more than 150 m along the coast as far as Cape Comorin The surface is un dulating, with mountains in the east, and the coast is tringed with lagoons. Products include teak, pepper, coffee rubber and copra The maharaja is entitled to a salute of 19 guns. The area is 7625 sq m Pop 4,000,000

Traveller's Joy (Clematis vitalba) ing plant of the natural order Ranunculaceae It is a perennial shrub with tough stems and twining leaf stalks by means of which it climbs in every direction—Lour greenish white sepals form the flowers, numerous stamens surround the styles which in autumn elongate into white plumy talls These give it the familiar name of old man's beard

Traveller's Tree (Ravenala mada gascarien qis) Plant of Madagascur allied to the banana and resembling a pulm its leaves, many feet in length, grow in rows on opposite sides of the stom terminating in a cluster giving a fan like offect. Rain water collects in a cavity at the base of each leaf stalk, and flour prepared from the ground seeds is used as food by the natives

Trawling Method of deep sea fishing A not is dragged along the bed of the ocean, the mouth of which is kept open, the upper edge being supported a few feet above the sea bed, the lower edge sweeping over it. The net tapers from the mouth, the open back end being tied up during trawling to retain the catch which is helsted aboard when the trawl is raised

Treadmill Form of mill used in England for punishing prisonors. The prisoner moved the wheel by ascending it step by stop, but never made any upward progress The power obtained was sometimes put to practical use, but was nover very great. The first treadmills were erected at Brixton Prison in 1817, and they were in use for nearly a century. The wheel was used by the Chinese for obtaining water for irrigation purposes

Treason In English law a serious crime It means to betray and is used for crimes against the severeign or the state At one time there were two kinds of treason, petty and high, but petty transon, an act of treachery of a vassal towards his lord, was abolished in 1828 As defined by an Act of 1848 high transon is any serious betrayal of the interests of the State and the penalty is death by hanging In Tudor times and carlier many persons were put to death for treason, the punishment at that time being hanging and disombowelling, followed by beleading and quartering This punishment was inflicted on some persons after the Jacobite risings of 1715 and 1745

Treasure Trove Torm in English denotes It denotes any gold or silver, in coin, plate or bullion, found hidden in a house or in the earth, or other private place, the owner thereof being unknown It belongs to the crown, but usually it is given to the finder Any one who finds treasure trove to the finder and does not disclose the fact may be pro secuted One of the duties of coroners is to inquire into cases of treasure trove

Treasury Department of the British the national revenue and expenditure The Chancellor of the Exchequer is its head and his chief assistant is the Financial Secretary to the The first lord and the junior lords of the treasury have nothing to do with the management of the department. The permanent head is the Secretary to the Treasury who is the official head of the Civil Service. The offices are in Whitehall

of State, but since 1711 his duties have been discharged by a commission. At first the chief official way the first lord, but gradually his work passed to the Chanceller of the Exchequer The office of the First Lord of the Trensury is usually held by the Prime Minister

Treasury Bill Document Issued by in return for money borrowed Introduced in 1877, treasury bills are usually sold by tender to banks and financial houses those who offer the money at the lowest rate of interest securing them. They are repayable in three six or nine months. They are in multiples of six or alno months. They are in multiples of £1000 and are used to obtain money when it is wanted for short periods. In 1932 the national dobt included £604,465,000 in treasury billa

Treasury Bond Document of money borrowed by the government. It is borrowed for a definite term of years usually five, and the bonds are repayable at par, although they may be sold at less than par In 1932 the national debt included £194,216,566 borrowed by means of treasury bonds they usually bear interest at the rate of five per cent

Treasury Note notes for £1 Torm used for the 10s first issued by the Treasurv in Aug. 1914 They continued in use until 1928, when they were superseded by the currency notes issued by the Bank of Fugland

Treaty Agreement, contract or league Treatles are made by diplomatists and other representatives of the various countries, but before they are valid they need ratification by legislative or other authority in the several countries Important treaties deal with the arrangements made at the conclusion of a war, but others deal with a specific subject and have no relation to war In modern times many treatics are commercial Since the Great War it has become the custom to deposit copies of

It has become the custom to deposit copies of treaties with the League of Nations Important European treaties are the Treaty of Westphalia (1648), the Treaty of Ryswick (1713), the Treaty of Paris (1814), the Treaty of Vienna (1815), the Treaty of Berlin (1878), and above all, the Treaty of Versailles (1919)

Treaty Port Name used for certain china and Manchurla They are those which are open to European trade by treaty This was first done in 1842 after a war between Britain and China

Trebbia River of Italy A short stream, of the Po which it joins near Placenza It is notable for the victory gained by Hannibal over a Roman army in 218 n c

Trebizond City of Asia Minor It was

Trebizond founded as a Grook colony near the SE angle of the Black sea, and derived its importance from its position on the main caravan route from Asia through Armenia to Europe For two and a half conturies it was the capital of an empire, founded by Alexius Comnonus after Constantinople was occupied by the Crusaders in 1204 Being well protected on the land side by a range of mountains, it withstood many sleges, until it fell finally to Sultan Mohammed II in the 16th century

The population is about 60,975

Treble Term used in instrumental music who is the official head of the Civil Service | Treble Term used in instrumental music The offices are in Whitehall and the At one time the Treasury was under the troble is played by instruments of acute tone, Lord High Treasurer one of the great officers

Tredegar Market town and urban district town and urban district of Monmouthshire tetands on the river Sirhowy, 24 m from Carliff and 163 m from London, on the GW IIIv The chief industries are iron working and coal mining Pop (1931) 23,195. The title of Baron Tredegar is held by the amily sent is Tredegar Park. Tree Woody stemmed plant, differing from a shrub in size only and perennial in habit. Trees are either deciduous, as the oak.

abit Trees are either deciduous, as the oak and elm, or evergreen like the pine. Trees are worshipped by some peoples such worship may be animistic, i.e., the tree may be regarded as the home of some powerful

may be regarded as the home of some powerful pirit or departed soul, or may be part of a fertility cult—In the latter instance the tree is rather the symbol than the object of worship. There are some curious survivals of tree worship in civilised countries, the best known of which is the maypole—Trees were also meetimes used as the symbol of life, as may be read in the opening chapters of Genesis sec Aftorestation, Forestix Tree—Sir Herbert Beerbohm—English actor and was educated in Gormany—Under the stage tame of Beerbohm-Tree he made his dobut in London in 1877—In 1884 he took the theatre going world by storm as the curate in The Private Secretary—He played melodrama for the vears at the Haymarket Theatre, and later put on Shakespeare with great success at His Majesty's—He was knighted in 1909, and died July 2, 1917

Tree-creeper—Small bird (Certhia familiaris)—widely

Tree-creeper Small bird (Cerlina widely spread in the temperatoregions of Europe, North America, Asia, and North Africa It climbs about on the bark of trees by means of its claws and tall feathers in search of insects on which it feeds

Tree Frog Family (Hyhdae) of tree many species widely distributed. The digits of both pairs of limbs are furnished with adhesive pads adapted to its habitat. The male has a vocal sac. Hyla arborea is common in S Europe. Tree frogs resort to water for the breading feeson. Europe Tree breeding Feason

Treforest District of Glamorganshire It stands on the South Wales conffield, 12 m from Cardiff and 164 m from London by the GW Rly Pop 12,365

Town of Cardiganshire Tregaron 10 m from Lampeter and 37 m from Carmarthen, on the GW Rly

Treharris Urban district of Glamorran-Cardiff and 165 m from London, on the G W Rly It is a coal mining centre Pop 8787

Treitschke Heinrich von German writer He was born in Dresden, Sept 15. 1834, and studied at the universities of Leipzig and Bonn, becoming professor at Freiburg in 1863, and later at Keil, Heidelberg and Berlin He edited Preusssche Jahrbucher and Historische Zeitschriften, wrote a German history of the 19th century, and many political and historical essays He died April 28, 1896

Trelawny Sir. Jonathan Cornish

Trelawny Sir J bishop Born in Pelynt,

In the stands on the river Sirhowy, 24 m from Carliff and 163 m from London, on the St. Willy The chief industries are iron working and coal mining Pop (1931) 23,195

The title of Baron Tredegar is held by the family of Morgan It dates from 1859 and the family seat is Tredegar Park was the head of an ancient Cornish house He died July 19, 1721

Treloar Sir William Purdie English philauthropist He was born in London, Jan 13, 1843, and educated at King's College School He embarked upon a business carter, at the same time taking an active interest in public affairs In 1880 he became a member of the city corporation, was sheriff in 1899 1900, and Lord Mayor 1906-07 He canded the Lord Mayor Troloar's Cripples' Herrical and College at Alton and Havling Island, Hants Knighted in 1900, created a baronet in 1907, he died Sept 6, 1923

In warfare an excavation in the Irench earth used to protect soldiers are Early in 1915, when the from enemy fire Great War on the western front ceased to be a war of movement transless were dug on both a war of movement to nebes were due on both sides and soon there were lines of these from the Belgian coast to Switzerland There were advance, support, communication and other kinds of trenches, and weapons and machines specially suited for trench warfare were developed These included a cutter for excavating them and a mortar for throwing bombs into them. A disease called tranch fater A disease called trench fever into them developed among troops serving in the trenches

Irenchard Huga Montague, 1st Baron Trenchard Huga Montague, 1st Baron Born Feb 3, 1873, he entered the army in 1893 and served with distinction in the Boer War (1899 1902), as well as during the Great War He was Colonel in 1915, Major-general in 1916, Air Chief Marshal, 1922, and Marshal of the Air, 1927 He succeeded Lord Byng as Commissioner of the Metropolitan Police Force, Nov 2, 1931 He was created baronet in 1919 and baron in 1930, and was awarded a G C B in 1924 In 1933 a bill for the reform of the police organisation ("Trenchard's Bill") based on a report by Lord Trenchard, was introduced in Parliament He retired in Nov, 1935

Trent River of England It rises in Staffordshire and flows through Derbyshire into Nottinghamshire It joins the Humber near Alkborough It is 180 m long and has a bore or aggre It passes by Stoke, Burton, Nottingham, Nowark and Gainsborough and its tributaries include the Stow, Tame, Dove, Soar, Erewash, Derwent and Idle The Trent is navigable to Nottingham by small craft and to Gainshorough by larger ones

small craft and to Gainsborough by larger ones Plans have been prepared to improve the channel and make Nottingham a river port. Canals unite the Trent with other waterways in the northern and central parts of England Trent Junction is a station on the L.M.S. Play

Trent Junction is a station on the L MS Rly, 7 m from Nottingham. Near is Trent College, a public school for boys founded in 1866

Trent Town of S Tirol Formerly ry, and He died It is situated on the River Adige, and is strongly fortified, being the capital of the Trentino It was captured by the Italians on Nov 3, 1918 Among the industries may be mentioned

pottery, silk, wine and playing cards Marble is quarried Pop (1931) 56,637

The Council of Trent, held here in three seasions between 1545 63, was a general council of the Roman Church It dealt with various doctrinal matters and has deeply influenced that church ever since The decrees were con firmed by Pope Pius IV in the year following its conclusion

Trente et Quarante Alternative ly named Rouge et Noir, it is a gambling game played with six packs of cards, on a table specially marked out. The cards are dealt out in a row (the black row) until the total number of pips exceeds 30 (Court cards count 10 and aces 1) A second (or red) row is then dealt below the first, and the winning row is that containing the most pips Players stake on couleur (the winning row) or inverse or a cheval, a combination of these When both rows total 31, the refait occurs, and stakes are put en prison until after the next deal

Trentham is 3 m from Stoke-on Trent on the L.M.S Rly Trentham Hall, the seat of the Duke of Sutherland, was pulled down in 1911 and the grounds made into a public park One of the finest houses in England, it was built about 1840

Trentino Italian district It is a mountainous area on both sides of the River Adige, surrounding the town of Trent, which is 57 m. N of Verona. Essentially Trent, which is 57 m. N OI vervine. Described, an Italian region it had become, prior to the Great War part of the Austrian Tirol, with a frontier unfavourable to Italy, leaving 400,000 Italians under Austrian rule. It was the scene and of much heavy fighting during the war, and on Nov 3, 1918, the day before the cessation of hostilities, Tront was occupied by Italian troops

hostilities, Trent was occupied by Italian After the war the district, which covers 2539 sq m, was restored to Italy
Trenton City of New Jersey, the capital It stands on the River Delaware, 34 m from Philadelphia, and is sawed by several railway lines. There are a late of the capital in the River Delaware, 34 m from Philadelphia, is served by several railway lines. There are a number of manufactures for which electric power is generated from the falls in the river Pop (1930) 123,356

Trephine Surgical instrument. It is a Trephine small cylindrical saw used by operations on the skull By

means of this instrument a small circular portion of bone can be removed to relieve pressure on the brain, caused by disease or lojury

Tresco One of the Scilly Islands It is 42 m. from Penzance and covers It contains the residence of the 720 acres. lord proprietor famous for its beautiful gardens remains of the old abbey and a ruin called Cromwell's Castle See SCILLY ISLANDS

Trespass Act of going without permis someone else. An action for trespass can be brought by the owner but unless the trespasser did damage to the property he will be acquitted or let off with a very small fine Other kinds of trespass are trespass to goods and trespass to the person. The former is interfering with a person's property and the other interfering with his liberty

Trevelyan Sir George Otto English statesman and writer He was born in Leicestershire July 20, 1838, and educated at Harrow and Cambridge, where he took high honours Entering Parliament in

Marble | 1865, he was successively a Lord of the Admiralty, Chief Secretary for Ireland, and Secretary for Scotland, retiring from public life in 1897 His best known works are Life and Letters of Lord Macaulay, The Early History of Charles James Fox, and The American Revolution. He died Aug. 16, 1928

His eldest son the Rt. Hon Charles Philips Trevelyan, was born in London, Oct. 28, 1870, and also educated at Harrow and Cambridge He became Parliamentary Secretary to the Board of Education in 1908, but resigned in 1914, being opposed to the Government war policy He re-entered Parliament in 1922 in the Labour interest, and was President of the Board of Education in 1924 and 1929 31 George Macaulay Trevelyan, the third son of

Sir George Otto, was born Feb 16, 1876, and also educated at Harrow and Cambridge, where he has been Regius Professor of History since 1927 He has honorary degrees from Oxford, St. Andrews, Edinburgh and Durham, and has written an appreciation of Meredith, three books on Garibaldi a Life of John Bright, England under the Stuarts, British History in the Nineteenth Century, A History of England, Blenheim, and other books on historical subjects

Treves French name for Trier an ancient German city It lies on the Moselle, in a fertile valley, spanned by vine-clad bills Trèves contains many ancient buildings, a Roman amphitheatre and palaces, and an ancient and beautiful cathedral. It was ancient and beautiful cathedral It was conquered by Cacear in 56 BC, and later by the Franks, and was throughout the Middle Ages a seat of monastic learning Pop (1925) 57,844

Trevithick Richard English inventor He was born in Cornwall, April 13, 1771, the son of a coal mine manager In 1800 he built a high pressure non condensing steam engine and in 1801 a locomotive which carried passengers along a road He applied his high pressure engine to many purposes, such as boring and breaking rocks, dredging threshing. In 1816 he was in Peru, building mining engines. He died April 22 1833

Trial Name used for the examination of a prisoner in a court of law before a judge or recorder It is only used when a person is charged with a criminal offence which is too serious for the magistrates. In some trials there is a jury, but not in all The counsel for the prosecution opens the case and calls his witnesses, who can be cross-examined by the defending counsel. The defendant's counsel then states his case and calls his witnesses. The judge then gives his verdict or, if there is a jury, sums up the case and leaves the verdict to them finally he disoharges the prisoner or delivers sentence in accordance with the verdict of the jury

Trianon Pavilions built in the great park at Versailles The Grand Trianon was built in 1670 for Louis XIV It is a onestoreyed building and was later used by Napoleon and Louis Philippe. The Petit Trianon was built in 1766 It was a favourite abode of Marie Antoinette, who laid out

gardens around it

gardens around it

The Treaty of Trianon between the Allied
Powers and Hungary, signed June 4, 1920,
separated Hungary from Austria allotted parts
of her tarritory to Rumania, Czeoho-Slovakia
and Yugoslavia on a basis of nationality, and
provided for reparations and the roduction of
her military forces. The Covenant of the
League of Nations forms part of the treaty

Moray Firth in Scotland It consists of con glomerates breechs, andstones and mark Gypsum, alabaster and salt are mined, and the rocks provide important building and other materials

Tribe Clan or body of people descended from the same ancestor. A number of tribes make up a people or nation. The develope the sons of Jacob, and the American Indians are divided into tribes to day. In early days the Romans were divided into three tribes and there were also tribes among the Greeks

Tribune Roman magistrate The name was given to plebeian officers in Rome, who were first elected 494 BC, to safe guard the plebeians from oppression by the patricians They had the right of vetoing the action of any magistrate At first there were two, afterwards ten, tribunes, whose persons were sacrosanct. Their power was curtailed by Pompey, 70 BC. Under Augustus, the tri-bunician power passed into the hands of the emperor

Tricolor Word used for the national flag of the French republic It dates from the time of the Revolution of 1789, and is red, white and blue Other European countries have three-coloured flags, but the word is in practice confined to the French one.

Trieste Scaport of Italy Formerly Austrian it is on the Adriatic, on the Gulf of Trieste, some 70 m NE of Venice It has a fine harbour and an extensive trade in oil and wine Shipbuilding is import-Other industries are oil-refining, iron foundries, chemicals, soap making, cotton spinning, etc. There are marble quarries nearby. There is a broadcasting station (2477) nearby There is a broadcasting station (241) M., 10 kW) The cathedral of San Ginsto occupies the site of a Roman temple. Five miles distant is the eastle of Mirdmar, built for the ill fated Emperor of Mexico The port became Italian territory after the Great War Pop (1931) 249,495

Triforium Torm in ecclesiastical architecture It is used for an upper storey above the aisle Originally set apart for the women of the congregation, the traforlum had areaded openings It persisted in later architecture, and in English churches frequently forms a wide passage right round the building

Triglyph In architecture an ornament It is repeated at equal intervals in a Doric frieze Lach triglyph consists of two gutters, or channels, cut to a right angle, called glyphs, and separated from each other by their interstices

Branch of mathe-matics It treats of Trigonometry the iclations concerning the sides and angles of triangles and especially of methods of deducing from given parts other required parts It is much used by surveyors who take certain points, calculate the size of the angles and from these obtain the required measurements

Trilobites Class of fossil marine crus

Triassic System Geological system flattened body was covered with a hard tri-mian It occurs in Wales, the midland and divided into a head bearing a carapace, a northern counties of England and around the thorax composed of movable segments, and an lobed exoskeleton on the dorsal surface and divided into a head bearing a carapace, a abdomen or tail piece of fuscd segments. The thoracic segments being movable, the trilobites were able to roll themselves up like wood-lice

Trim County and market town of Co, Meath, Irish Free State It is on the Boyne, 30 m from Dublin, and is reached by the GS Rivs There are considerable ruins of a castle built in the 13th century by the English invaders, and remains of several ableys There is an agricultural trade Pop 2800

Trimdon Urban district of Durham. A colliery centre, it is 8 m S E of Durham and 249 m from London by the LNE Rly Pop (1931) 5410

Term used for a man of 1 rimmer politics. It is due to the Marques of Halifax, who used it of himself in a work called The Character of a Trammer, in which he defended persons who could see both sides of a question

Tring Urban district and market town of Hertfordshire It is 32 m from London on the LMS Rly There is a trade in agricultural produce Tring Park is the magnificent seat of Lord Rothschild. Pop (1931) 4364

Trinidad Island in the West Indies Forming with Tobago a British Crown Colony, and lving a few miles north of Venezuela it was discovered by Columbus in 1494, colonsed by Spain and ceded to Britain in 1802 It has a tropical, but not oppressive, climate Principally an agricultural country, producing cane sugar by means of large modern mills, a high grade of cocca and other tropical produce, it is famous for its pitch lake, covering 114 acres, an important source of asphalt, while petroleum is also worked The capital, Port of Spain, has excellent buildings Area, 1862 sq m Pop (1931) 414,572 (1931) 414,572

Trinitarian One who believes in the

Trinitarian is the name of a Roman Catholio order, called also the Redomptionists. It was founded in 1198 to ransom Christian soldiers who had been taken prisoners by the infidels. The members known as the red, or crutched (crossed) friars, had a red cross on a white robe. They had houses in London and elsewhere, The order is now a small one with headquarters in Itome, and its chief work is the ransoming of negro slaves

Trinitrophenol Yellow crystalline substance Also known as pieric acid, it is formed by the action of strong nitric acid upon phenol It acts as a strong acid forming salts which explode when Yellow crystalline heated or struck, especially in the case of potassium and ammonium picrates Picric acid is sparingly soluble in water and its solution is used in medicine as an application for burns It is used as a dye, and enters into the com-position of high explosives

Trinitrotoluene shells formed by High explosive for the action of strong nitric acid upon toluene, it is also known as trotyl or TNT Unlike trinitrophenol it does not behave as an acid forming explosive salts, and has a lower melting 17110DITES tacea Peculiar to the point and sonsitivity, also it is insoluble in palacozoic rocks and especially abundant in the Cambrian and Silurian periods, the oval manufacture and use. The high explosives

aluminium and other ingredients
Transfer The Holy Theological term Trinity The Ho'y Theological term It union of three 'persons' (Father, Son and Holy Spirit) in one Godhead The develop ment of this doctrine, traces of which are to be found in the New Testament, owes much to the influence of Greek philosophical thought on the Christian Church during the early centuries of its history

Trinity College Cambridge The Cambridge University Founded in 1546 by Henry VIII, it absorbed several earlier foundations among which were Michaelhouse dating from 1324, and King s Hall, founded in 1337. The five courts include Great Court Cloister or Neville's Court, and King's Hain, futured in 1337 The five courts include Great Court, Cloister or Neville's Court, and King's or New Court The library was designed by Wren and contains busts of eminent alumni The Master is appointed by the Crown There are valuable exhibitions, some restricted to Westminster School

Trinity College Dublin University founded in 1591, and is mainly a Protestant body, although religious tests were discontinued in 1873 Unlike Oxford and Cambridge the university conclusion. the university consists of a single college, the head of which is the provost Women were head of which is the provost Women were first admitted in 1903 The library contains a very valuable collection of Irish MSS There is an observatory at Dunsink and a botanic garden at Balls Bridge Trinity College returns

three members to Dail Eircann

Trinity House Association of sea porated in 1614, has its headquarters on Tower Hill, London, and is responsible for all pilotage round the British coasts and at Gibraltar This involves the upkeep of light houses and ships, the buoying of channels removal of dangerous wrecks, and so on The Elder Brethren of Trinity House are persons of high standing in the country, including members of the Royal Family and retired naval officers of high rank. They wear a distinctive costume on state occasions.

Trinity Sunday Sunday after Whit sunday (Pentecost) observed by the Anglican and Roman Catholic churches in honour of the Holy Trinity The festival, which was not generally observed until the 12th century, was established authoritatively by Pope John XXII in 1334

Triolet Form of verse, consisting of eight lines, the first and last two lines are identical and the fourth line is the same as the first The lines are of six or eight syllables

Tripe Food prepared from the intestines of ruminant animals. It is usually cut in slices and served with milk and onlons. It is regarded as the most easily digestible of

all meat foods

Triple Alliance Alliance made be tween three nations There have been many triple alliances between European nations the most recent of these was that formed in 1883 between Germany Austria and Italy against the power of Russia and France This alliance was severed when Italy joined the Allies in the Great War on May 4 1915

Tripoli City of North Africa It is the capital of the district of Libya

amatol and ammonal are mixtures of this usually called Tripolitana, but sometimes itself substance with ammonium nitrate, powdered known as Tripoli Situated on a promontory of the Moltterranean, at the intersection of three caravan routes it comprises all the features of a typical Moorish city, containing several fine mosques The arch of Marcus Aurelius is an imposing monument in marble, and there is an intersecting Caralta forecast and there is an interesting Spanish fortress Since the Italian occupation many fine govern-ment buildings have been erected as well as a modern fort In the 16th century Tripoll passed from the Arabs to the Turks Pop (1931) 71,793

Tripolitana Italian colony of N Africa and is divided into civil and military zones Until 1911 it was a Turkish vilayet. The chief industry is agriculture, and acceptance of the chief industry is agriculture and especially fruit growing Tripoli is the capital Other places are Yefren, Gharian and Aziza It is a centre

Tripos Three legged stool or altar, used by the Greeks Tripos is the name, at Cambridge University, of the Honours examination in various schools and is derived from the obsolete custom of

and is derived from the obsolete custom of sttting on a three lenge 1 stool on Ash Wednes day to debate in the Philosophy School

Triptolemus Son of Celcus, king of Eleusis An agricultural hero and supposed inventor of the plough he ras, according to one legend, brought up by Demeter, becoming the first priest of Demeter and founder of the Eleusinian Mysteries According to the Attle legend, he was a judge in the underworld

Triptych Decorative piece consisting of three panels They are often seen in churches where they are used as altar pieces Some of them are beautifully decorated with paintings of religious personages or scenes The two wings usually fold over the centre piece

Trireme Vessel with three banks of oars and two masts It probably originated in Tyre or Sidon, but was soon copied by the Greeks The Attic trireme contained up to 174 oarsmen, and possibly reached a speed of nine knots. The sails were reached a speed of nine knots not used in battle

Tristan Hero of romantic legend He was the nephew of King Mark of Cornwall and the ill fated lover of his uncle s wife, Iscult According to some versions, the legend is connected with the Arthurlan cycle, but the poem written by Thomas of Brittany and translated by Gottfried von Strassburg (which forms the basis of Wagner's Opera, Tristan and Isolde), knows nothing of King Arthur Other modern renderings of the tale are found in poems by Swinburne, Arnold and Tennyson

Tristan da Cunha Island midway Africa and South America It is occupied by the descendants of some of the military force stationed there while Napoleon resided at St Helena, and remaining when the garrison was withdrawn in 1817 The people, number ing 163 (1932) raise potatoes and have cattle, sheep, pigs and poultry

Tritoma Genus of herbaceous plants, belong to the natural order Liliaceuc and are natives of South Africa Several species are grown as garden plants, one known as the red hot poler plant is conspicuous for its clongated spike of scarlet flowers in the late

summer or autumn

Triton Greek merman Son of Poseidon and Amphitrite, he dwelt on the Libvan coast, and assisted the Argonauts when their ship went ashore on the Lesser Syrtes He was human to the walst, but had a fishtail and carried a sea shell which he blew to bring storms or calms

Triumph Celebration of a Roman occasion of great rejoicing. The general and his troops marched through the city, with the prisoners and the spoil they had taken, as is illustrated in the story of the British chief, Caractacus The general went then to the Capitel where sacrilices were offered One of the most splendid triumphs ever colebrated was that of the Emperor Aurelian in 274

Arches erected to commemorate these victories were known as triumphal arches. There were many of them throughout the empire and some of them still stand. One of the finest is the arch of Titus in Rome, creeked to celebrate the capture of Jerusalem in a D 70

Triumvir Member of the Triumvirate in Rome The First Triumvirate was formed in 60 nc, when Caesar Pompey and Crasus joined for es to govern Rome The Second Triumvirate, 13 nc, consisted of Octavian Antony and Lepidus, who divided the Roman Empire among them The word comes from the Latin tres, three, and vir a man

Troglodyte Name given by the Greeks They were supposed to live in the Caucasus, or on the shores of the Red Sea Their chief occu-

pation was keeping cattle

Troll Creature of Scandinavian folk-lore of giant or ogre, sometimes more like a gnome but always with evil powers and malevolent disposition

Trolley Small truck on wheels in mines, gravel and chalk pits, and for similar purposes A trolley car is a kind of wheeled tram car, much like a motor-bus in appearance, but propelled by electricity and running on rails In some places it has supersoded the ordinary tram

Trollope Born April 24, 1815, into a literary family, he was educated at Winehester and Harrow He worked in the surveyor's department of the Post Office from 1841 to 1867, his duties taking him to the United States, the West Indies and Leppt — He travelled later in S Africa and Australia, acquiring in all his journeys material for books His first fow foll int, but The Warden (1855) excited attention, and when Barchester Towers appeared his reputation was established The Last Chronicle of Barset, The Claverings, John Caldigate and An Old Man's Love are only a few of a very long list He died Dec 6, 1882

Trombone Brass wind instrument formerly known as the sackbut It possesses a deep tone. In the slide trombone, an outer semicircular tube slides up and down the inner tube, altering at will the length of the tube of air, thus the pitch can be varied. The valve trombone, another variety, is equipped with pistons instead of a slide. Trombones are of three kinds, alto, tenor and

the seventeenth century struggle for sea supremacy between the Dutch and the English In May, 1652, he was worsted by Blake, but in November he defeated him in the Straits of Dover In Feb, 1653, van Tromp returned and suffered defeat off Portland The final struggle was July 31, 1653, off the coast of Helland and Straits and Struggle was July 31, 1653, off the coast of Helland The Struggle was July 31, 1653, off the coast of Helland The Struggle was July 31, 1653, off the coast of Helland The Struggle Was July 31, 1653, off the coast of Helland The Struggle Was July 31, 1653, off the coast of Helland The Struggle Was July 31, 1653, off the coast of the Struggle Was July 31, 1653, off the coast of the Struggle Was July 31, 1653, off the coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the Coast of the Struggle Was July 31, 1653, off the S Holland, where the Dutch lost thirty vessels, and Admiral van Tromp was killed by a bullet He was victorious in 33 naval encounters

Tromso Scaport of Norway It is on the island of Tromso and is the principal port for Spitzbergen Fishing and its subsidiaries are the chief industry. The town has a broadcasting station (453 2 M, 0 1 kW)

Trondhjem (or Nidaros) City and seasituated on the flord of the same name, on the estuary of the Nid, 350 m by railway N of Oslo The cathedral built in the 11th, 12th and 13th centuries has suffered many times and 13th centuries has suffered many times from fire from 1818 the kings of Norway Shipbuilding is have been crowned here carried on, and there are saw mills, tobacco and other factories The city has a broad-casting station (493 4 M, 12 kW) Pop (1930) 54,458

Founded in 996, Trondhjem was the capital till 1380, after which it declined till the present century In 1930 it changed its name officially to the older Nidaros

Troon Burgh, scaport and pleasure resort It is 9 m from Kilmarnock, on the LMS Rly It has a good harbour from which coal is shipped and has other industries Troon has become a popular watering place Pop (1931) 8544

Troop Body of soldiers In the British army it is only used in the cavalry regiments where each squadron is divided into troops It numbers about 40 men The phrase trooping the colour means carrying the colours in front of a regiment or battalion on the Ling's birthday

Trope Expression used in a sense different from that which it properly possesses. It is usually done for emphasis. It is a trope to call a man a dark horse or a sly old fox

Tropics Term for part of the earth's surface There are two tropics, north and south The northern one, bounded by the tropic of cancer, lies between latitude 231° N and the equator, and the southern, bounded by the tropic of capricorn, lies between the equator and 231° S. They include, therefore the delater water the southern. therefore, the hottest part of the earth, which is called the torrid rone

Trossachs The Mountain district of Porthshire, Scotland The

name is Gaelic and means bristling country

name is Gaelie and means bristling country. The region, which consists of a pass extending from Loch Katrine to Loch Achray, is densely wooded and is noted for its lovely scenery. Overlooking the pass are Ben Venue, 2393 ft, and Ben A'an, 1850 ft.

Trotsky Leo Davidovich Russian polistein (or Braunstein) He was born in 1877 near Elisavetgrad and educated at Odessa University Arrested as a revolutionary in 1898, he was exiled to Siberia, but escaped to England, where he became acquainted with Lenin He returned to Russia in 1905, was again arrested, but escaped to Vienna At the Tromp Martin Harportzoon van Dutch admiral He was born at Brielle in 1597, and his name is associated with large of Brest-Litovsk, Commissar for War

In 1927 he was expelled from the Communist party, and exiled to Turkestan In 1929 he went to Constantinople He was refused entry to England and Denmark, but in 1931 was permitted to live in Spain In January, 1932, he was banished for two years by the Soviet Government In the same year he lectured on Communism in Copenhagen

Troubadour Mediaeval poet The troubadours flourished in Provence from the eleventh to the thirteenth century The three great sources of their century Ine three great sources of their maspiration were war, religion and love, and their poetry is for the most part written in very complicated metre and rhyme They received from the nobility protection and patronage in return for their services in cele brating the exploits of their patrons. The counterpart of the troubadour in northern France was the troubage. France was the trouvere

Trout Fresh water fish of the family (Salmo faria) is found in streams and rivers of northern Europe, or in inland waters from which these flow There is considerable variation in colouration, but this is generally olive green above and paler beneath, the head onve green above and purer orneath, the nead body and fine marked with roundish black spots. The trout varies in weight from 1 lb to 2 lb or more the larger fish being found in the deeper waters Trout resort to the upper shallow waters of streams to spawn The fish affords good sport to the angler who uses a light flexible rod and bait of an artificial fly

Trouville Watering place of France It stands on the River Touques 10 m from Havre and 132 m from Paris There is a small harbour and a little fishing, but the place is best known as a popular pleasure resort, with a casine good bathing and other attractions Steamers go regularly from Havre Deauville is on the other side Deauville is on the other side from Havre of the river

Trowbridge Urban district and mar It is 12 m from Chippenham and 97 m from London by the GW Rly Woollen goods are manufactured Pop (1931) 12,011

manufactured Pop (1931) 12,011

Troy Ancient city It was situated on the Troy N w promontory of Asia Minor, at the junction of the rivers Scamander and Simols 3; m from the Hellespont Its site has been identified in modern times with the mound of Hissarlik, and excavation has has been identified in modern times with the mound of Hissarlik, and excavation has revealed the remains of nine cities, of which the sixth has been established by modern scholarship as the Troy of Greck legend This was believed to have been founded by Tcucer, and was the scene of the Trojan War a ten years' war between the Greeks, led by Agamemnon and Menelaus and the Trojans whose prince Paris had abdrated Helen the whose prince Paris had abducted Helen, the wife of Monclaus The Greeks finally captured the city by stratagem and sacked it See Homer, Agamemnov, Hellen etc A small city on the site in Alexander's day was in ruins by Strabo a time

Troy Weight Measure or weight Used for weighing gold, precious stones and other precious materials, it was as follows

> 24 grains make 1 dwt. 20 dwts ... 1 oz 1 ox 2. To: 1.0 lb 1 qr 1 mt

In addition 4 grains make one carat and 6 carate make 1 dwt.

Troy weight was abolished in 1878 except for the troy ounce which, with its decimals, is

for the troy ounce which, when he declared a still used for weighing precious metals

Troyes city of France. The most not cathedral which was begun in 1208, and which contains some fine stained glass. The manufacture of cotton, woollen and silk hoslery manufacture of cotton, woollen and suk nosiery is here carried on Troyes is the early Roman Augustobona and derives its name from the early settlers, the Tricassi It reached its zenith in the Middle Ages, but has since declined very considerably in importance Pop (1931) 58 804

Truce Word used for a cessation of war armiettee which is a consisting from the properties of the consistency was a consistency which is a constitute which is a

an armistice, which is a cessation of war preparatory to the negotiation of a peace treaty. When a combatant asks for a truce it

is usual to carry a white flag

Truck Term used for the payment of wages in goods instead of in money It was at one time very usual, but in money It was at one time very usual, but in Great Britain it has been made illegal by a series of acts passed in 1831 and later The prohibition now applies to sall classes of emprohibition and applies to savents. The truck plovees, except domestic servants. The truck acts also forbid employers to deduct money for the sharpening of tools and similar purposes, and limit the power of the employer to levy fines. They also forbid the payment of wages in kind where intoxicating liquor is sold. Offenders against the acts can be fined and it is the duty of the factory inspectors to enforce them

Truffle Genus of edible funci of the divi-ground in habit, being found just below the ground in habit, being found just below the soil usually beneath a tree or in wooded places. The best known variety (Taestrum) is somewhat like a potato in appearance, usually oblong or irregularly globose, with a dark, warty, hard exterior It is fleshy in consistency with a delicate distinctive flavour Dogs and the property of the with a cellecte distinctive flavour. Dogs and pigs are useful in locating them, by means of their scent, as there is no growth above the soil by which to discover them. A French variety (Tmelausporum) is especially valued. Trug Name for a long shallow square-ended basket made of wood. It is light and strong and used by gardeners for carrying small plants, etc.

small plants, etc

Trumper victor Thomas Australian Trumper cricketer Born in Sydney, Nov 2, 1877, he was early noticed as a fine bat. He played for N S Wales, and later was chosen to play in the test teams against England and South Africa, for which he made a series of centuries He died June 28, 1915

Trumpet Wind instrument, one of the oldest known There are three main kinds the natural trumpet, used mainly by cavalry regiments with its pitch varied by means of crooks the silde trumpet, in which pitch variation is obtained by tubes trumpet. The trumpet tuned on C produces the following range of tones of (second space, bass clef) G, C, E, G, Bb, C, D, E, G

Trumpet Flower Genus of half climbing shrub of the order Bigoniaceae They bear brilliant red or orange flowers, and should be grown in a sunny sheltered position. The

Trunk Main central part of the human body to which are attached the head and limbs. The upper part the thorax,

enclosed by the ribs, contains the heart and the i their bites the parasites of sleeping sickness, lungs, the abdomen below being occupied principally by the alimentary system Va-muscles cover the surface under the skin. Various

Truro City, borough and market town of Cornwall Attends on Truro River, 12 m from Falmouth and 279 m from London, on the GW RIJ The chief building is the cathedral This was built between 1880 and 1910 part of the parish church being incor

porated in it Truro has an agricultural trade Pop (1931) 11,074

Truro form of Nova Scotia, Canada, river Salmon, in the midst of a splendid agricultural trade of the Nova Scotia, Canada, river Salmon, in the midst of a splendid agricultural state of the Nova Scotia, Nova Scoti cultural district It is the seat of the Nova Scotia College of Agriculture and of the Pro-vincial Normal College Pop (1931) 7,901

Truss Apparatus for the prevention or affected part of the body and its object is to

In building, the timbers that are fastened together for binding a beam or supporting a roof are called trusses The word means a

bundle

Trustee One who holds property on trust for another A trustee must not male any profit out of his trust, but he can appoint a solicitor to act as his agent. He must observe strictly the terms of the will by which he is appointed. He must make good any losses caused by his negligence, or that of his agent, but by a law passed in 1925 he cannot be purished for a herach of trust if he has be punished for a breach of trust if he has acted honestly and reasonably. He cannot, however, get rid of his responsibilities for a breach of trust by retiring

Trustee securities are those securities in which a trustee can invest the money in his charge. They include all stocks issued by the British Government, or guaranteed by it, and all stock of British corporations and undertakings such as the Metropolitan Water Board The debentures and preference stocks of British rillwave are also trustee securities, except that since the Great War, owing to the absence of dividends thereon, some of these have been

tal on out of the list

Trusts See Combines.

TSAT or Czar. Title borne before 1917 by the rulers of Russia. It is a variant of Caesar. Tsarsloye Selo, meaning imperial village was the name of a town 15 m from Petrograd. It had two palaces, favourite residences of the tsars, and a cathedral Tschalkovsky. Piotr llytch Russian Tschalkovsky Composer Born May 7, 1840, he studied music at St Petersburg under Zaromba and Rubinsteln. In 1866 he was appointed Professor of Theory at the Moscow Conservatoire, but ill health forced him to resign in 1877. Thenceforward he devoted his energies to composition. His works comprise ten operas, six symphonics, numerous comprise ten operas, six symphonies, numerous "tone poems," overtures and concertos, the best known being in the 1812 overture, the Nulcracker Suile, the Queen of Spades, The Tempest, Francesca da Rimini and Eugen Onegin. Of all Russian music, his is the best known, and enjoys world-wide popularity He died from cholera in Nov, 1893

Tsetse Fly Name given to blood sucking dipterous files of the genus Glossima, they are natives of tropical Africa They inhabit low-lying bush or forest regions near water, and transmit by

and of nagana, a fatal disease attacking domesticated cattle. The fly somewhat resembles the house fly, with a larger probosels which projects in front of the head

Tsingtao Scaport of China It is on the south side of the Shantung Peninsula in the territory of Kiao Chow which, before the World War, was a German possession The port was strongly fortified In Sept, 1914, a Japanese force, aided by a small British contingent, began the siege of the fortress, and this lasted until Nov 10, when it surrendered It was kept for a time by Japan, but later was handed back to China. Pop (1931) 390,337

Tuam Market town of Co Galway, Irish Free State It is 20 m from Galway and is served by the GS Rivs It is best known as an occlesia tical contro, as it has both Roman Catholic and Protestant cathedrals There is a fine cross in the market place Pop (1926) 3293

Tuber Literally a swelling. In botany it describes a thickened underground stem. Very succulent, this is covered ground stem with buds from which new plants or other tubers are produced. Many tubers are highly nutritious, the potato and the artichoke being examples

Tuberculosis Infectious disease. Its ism is the tubercle bacillus which invades the body and attacks the bones, lungs and glands, and other tissues The disease, which has been one of the greatest scourges to mankind is conveyed chiefly by milk from cows suffering from the disease, and may result in enlarge-ment of the neck glands, disease of the hipjoint, etc.

In phthisis or pulmonary tuberculosis air-borne germs enter the lungs, usually attacking young persons, and the disease is accompanied by anaemia, emaciation, loss of energy with a troublesome cough and purulent expectoration Tuberculosis is no longer regarded as hero-ditary, and in many cases it yields to special treatment.

In 1911 a committee under Lord Astor investigated the general policy on tuberculosis in Great Britain, and a scheme for combating tuberculosis was inaugurated, consisting of special tuberculosis institutes and residential special tuberculosis institutes and residential sanatoria, while the Public Health (Tubercu-losis) Act of 1921 made it obligatory on each county to arrange for treatment of all sufferers from tuberculosis, whether insured or not

Tubingen Town of Württemberg, Ger-the Black Forest, it is a chemical manufacturing The chief buildings are the old castle centre The chief buildings are the old castle of Hohentübingen, on a hill overlooking the town, which contains the university library, an observatory, the town hall, and the Stiftskirche (built 1409-83), which is a Gothic building, containing the tombs of the rulers of Württemberg Pop 20,276.

At the university, which was founded in 1477, the Tübingen school of theology had its origin, and theology has always been the centre

origin, and theology has always been the

foremost faculty

Surname of an English dynasty. It was founded by a Welshman,  $\Gamma$ udor Owen Tudor, who married Catherine of France, the widow of Henry V His eldest son was Edmund, Earl of Richmond, who married Margaret, daughter of John Benufort, Duke of Somerset, whose son was afterwards Henry Henry VIII, Edward VI, Mary and

Elizabeth were Tudor monarchs In architecture, the Tudor style designates buildings showing traces of Gothic influence, chiefly large country houses or manors, built in the time of the Tudors (1485 1603)

Tugela River of Natal It rises in the Drakensberg Mts and flows past Ladysmith and Colenso into the Indian Ocean, near Port Durnford For part of its course it is the boundary between Natal and Zululand In its early course it is called the Buffalo

During the early part of the South African War, from Dec 1899, to Feb, 1900, there was a good deal of fighting along the Tugela. The a good deal of lighting along the Tugela. The Boers were strongly entrenched in the hills to the south of Ladysmith, thus proventing the British from relieving that town. The river was crossed without any great difficulty, but several attempts to dislodge the Boers failed. The final crossing, on Fob 26, however, had a more satisfactory result and Ladysmith was relieved. relieved

Tug-of-War Event at sporting and athletic meetings Two sides, each consisting usually of eight men or boys, pull against each other with a rope The object of each is to pull the other team over the midway line The decision usually depends on the best of three turs

Tulleries Palais des Building in Paris
Catherine de' Medici and Henri IV, and was
for long the residence of Louis XIV, in whose
reign the gardens were laid out by André
Lenôtre in the present style The Tulleries
played an important part in the French reign the gardens were laid out by Andre Lenôtre in the present style The Tullerles played an important part in the French Revolution On June 20, 1792 the palace was invaded by the mob and again on August 20 of the same year, when the Swiss Guards were brutally massacred This second onslaught resulted in the capture and imprisonment of Louis XVI

Tulip Genus of bulbous plants of the order Liliaceae Natives of Asia and the castern Mediterranean, they were introduced into England from Holland in the 16th century, and they have been established as garden favourites ever since then. Early flowering varieties single and double, are from 6 to 12 inches in height. The beautiful Darwin Cottage or May Flowering tullps have tall, strong stems up to 2 ft. The gorgeously striped Parrot Tulips in shades of scarlet, yellow, red and green are also a late flowering variety

Owing to crossing and cultivation, there are now an enormous number of species in a range which includes almost every brilliant and beautiful colour Tulips can be grown in any garden soil that is not too damp or water logged The ground should be dug deeply and the bulbs planted in late September, about 6 in A mixture of sand with the soil when

planting is advantageous

Tulip Tree (Liriodendron tulipifera)
North American flowering timber tree A species of magnolia it grows to a great height, sometimes reaching 180 ft It has glossy leaves and large tulip shaped flowers of variegated yellow, orange and green colour

Tullamore Urban district and market town of Offaly, Irish Free from Dublin, on the GS State Rivs It is an agricultural centre and has some industries The Grand Canal passes the town. Pop (1926) 4930

Tullus Hostilius Third legendary of Rome His traditional dates are 672 640 Bc The destruction of Alba Longa is the only ovent of those ascribed to his reign which may be regarded as an historical fact.

Tulse Hill 6 m to the 3 W of the city, on the S Riv It is part of the borough of Lambeth and contains Brockwell Park, a large public pleasure ground.

public pleasure ground
River of Perthshire runnel are to Perthshire It flows out of Loch Rannoch and empties itself into the Tay 7 m from Dunkeld. On it are the Falls of Tummel, a famous beauty spot, and for three miles of its course it forms Loch Tummel The Garry is a tribute.

Tumour Morbid parasitic growth, usu-ally accompanied by a swelling They are either malignant or non malignant, although some are intermediate. The latter do not ulcerate and if removed when young by an operation do not usually form again Malignant tumours may grow on any part of the body, some are cancerous and others sarcomatous They affect the adjacent parts of the body and the blood stream and even if removed tend to grow again

Tumulus Mound of stone or earth It place though tumuli are occasionally found simply as memorials tumulus is a barrow Another name for

British unit of liquid measure It consists of 4 hogsheads, or 252 Tun gallons

Tunbridge Wells Borough, mar spa of Kent. It is 35 m from London and is served by the S Rly Its healing waters made it a popular resort in the 17th and 18th centuries Places of interest are the covered promenade called the Pantiles and the parish church of King Charles The town is famed for the ware made here A cricket week is held and there are golf links and other facilities for sport. Tunbridge has been a borough since 1909 Pop (1931) 35,367

Tundra Cold desert area of northern Russia and Siberia. It lies behind the Arctic coasts of that region and during the long winter is ice and snow covered in summer only the surface becomes thawed the temperature being even then only about 48° 50° F It is a treeless plain, sparsely 48° 50° F It is a treeless plain, sp. bearing lichen, mosses and low shrubs fauna include caribou and reindeer

Tungsten Metallic element having the symbol W, and atomic weight 184 It occurs in the minerals scheolite, a tungstate of lime, and wolfram, a mixture of iron and manganese tungstates It is a dull white, somewhat malleable metal with a very high melting point and added to steel increase. high melting point, and added to steel increases the hardness and cutting properties Tungsten also is used for electric light and thermionic valve filaments and its compounds for making coramic glazes, dye mordants, and for fireproofing

Tunic Short loose garment Garments of this kind were worn by the ancients The Romans were them under the toga similar garment is worn by children to day

Tunis Scaport and capital of Tunisla.
Situated on a small bay of the Gulf of Tunis, it has access to the sea by means of a channel dredged in 1893 It is an ancient city with many fine examples of Arab architecture, chiefly mosques It was occupied by the French in 1881 Tunis has many industries and considerable trade The remains of Carthage are only 3 m away Pop (1931) 202,405

Tunisia French protectorate of N Africa It lies along the Mediterranean coast, between Algeria and Tripoli, and has an area of about 48,300 sq m Tunis is the capital Other towns are Bizerta, Sousse and Stax The country is mainly arricultural Cereals are grown, also ollves, dates and other fruits are grown, also ollves, dates and other fruits

There is considerable mineral wealth in phosphates, lead, zine and iron, which is now being developed. Other industries juclude spinning and weaving, leather embroiders and similar crafts It was occupied by the French in 1881 Pop (1931) 2,110,692, of whom 195,293 are Europeans

Tunnel Passage cut through a hill traffic purposes. The earliest tunnels were made to take railway lines through hills, but later they were much used for relieving the congestion of the traffic in large cities Tunnels, or tubes for railway lines, are a feature of the travel facilities in London and New York There are also tunnels beneath the Thames and the Hudson, as vell as the Mersey and other rivers

Tunnels for drainage purposes were made by in England was made on the Bridgwater Canal about 1760 The longest is probably the one under the St Gothard Pass from Switzer-land to Italy Suggested tunnels are one land to Italy Sugrested tunnels are one under the English Channel from Dover to Calais, and one under the Thames from Graves and to Tilbury See Channel Transport

Tunney James Joseph, more usually in Greenwich Village, New York, in 1898, he served for a time in the marines, but later took up boxing He defeated Carpentler in 1924, and Jack Dempsey in 1926, the latter match securing for him the world's title In 1928 he scored a further success against Tom Heeney, after which he retired into private life

Tunny Large marine fish of the family Scombridge related to the macherel It is found abundantly in the Mediterrancan and also off the southern and castern British coasts, having a fairly wide distribution through the warm seas. It may attain a length of 8 to 10 ft, and a weight of 1000 lb, and is a useful food lish. Attempts have been made to encourage its use in Britain

Tunstall Market town of Staffordshire, since 1910 part of Stoke on-Frent It lies to the north of Stoke, on the Trent It lies to the north of Stoke, on the LMS Rly, 151 m from London See Stoke-ON-TRENT.

Tupper Sir Charles Canadian states-Nova Scotia, July 21, 1821 He studied medicine in Edinburgh, and was president of the Canadian Medical Association, 1807-1870 Beginning his political career in his native Province, he became its Prime Minister in 1864 After Confederation in 1867 he entered After Confederation in 1867, he entered Dominion politics, holding various portfolios From May, 1884, to Jan, 1896, he was High Commissioner for Canada in London, and from April 27, 1896, he was Prime Minister until the defeat of the Conservatives, June 23 In 1909 he settled in England, and died Oct. 30, 1915. 1915

Tupper Martin Farquhar English author Ho was born in London, July 17,

1810, and educated at Charterhouse and Oxford In 1835 he was called to the Bar, law for authorship In all he wrote some forty works, one alone of which, Proverbial Philo sophy, brought him both fame and wealth He made two lecture tours in the USA. He died Nov 29 1889

Turban Oriental headdress It consists of a scarf of silk or muslin material, arranged in folds over a fee or cap which forms the foundation It is the headdress of some regiments in the Indian army Caps in this style were worn by ladies in the early 19th century. In Cranford Miss Mattle refers to one worn by Queen Adelaide

Turbine Rotary motor employing water or steam to rotate it directly in its bearings In its simplest form it consists of a wheel with vanes moved by the pressure of water, but the name also denotes a similar device where steam is the moving power Hydraulic turbines are employed in utilising water power for conversion into mechanical or electrical energy, as in the Pelton wheel where a water jet acts upon the buckets on the rim or in the Francis turbine where a large body of water acts upon curved vanes Steam turbines of several types are used in electrical generating stations, and are applied also to the propulsion of ships

Turbot Flat fish (Rhombus) Of the mon in northern British waters The broad body is roughly diamond shaped, greyish brown, with darker spots It is a popular food flah

Turenne Henri de la Tour d'Auvergne, Vicomte de French general He was born at Sedan, Sopt 11, 1611 In 1641 Richelieu entrusted him with the supreme command of the French troops engaged in the Thirty Years' War, during which, with Condo, he gained several notable victories During the civil wars of the Fronde, Turenne fought against his former friend Condé He conquered parts of the Spanish Netherlands, ravaged Alsace and the Palatinate, advanced into Germany, but was killed at Salzbach, July 27, 1675

Turf Top layer of grassland It has become a colloquial term for horse-racing The Turi Club, 85 Piccadilly, is a centre

for racing men and sportsmen generally

Turgenev Ivan Sergelevitch Russian author Howas born Nov 9, 1818, of a noble family, and educated in Moscow, St Petersburg and Berlin He was the first to make western Europe acquainted with Russian life, his character sketches being propured to the first to make western Europe acquainted with Russian life, his character sketches being with itussian life, his character sketches being unsurpassed His Annals of a Sportsman (1846) brought him fame, but his novel, Fathers and Children, is perhaps his most distinguished work His somewhat outspoken opinions carned him a brief imprisonment in 1852, and he lived thereafter chiefly in Baden-Baden and Paris, where he died Sept 3, 1883

Turgot Anne Robert Jacques, baron de Children he week statesman One of the few honest statesman of his day he week

of the few honest statesmen of his day, he was born in Paris, May 10, 1727, and educated at the Sorbonne He was Intendent of Limoges from 1761-1774, and did much to improve the condition of the peasantry He was appointed Minister of Finance by Louis XVI in 1774, and order ourself to reform the whole system of and endeavoured to reform the whole system of taxation He thereby made bitter enemies of the privileged classes, and was forced to resign after 20 months, when he retired to private life He died March 8, 1781.

1242

Turin City of Piedmont, Italy It was, until 1860, capital of the kingdom of Sardinia, and from 1861 65 the capital of Italy Of Roman origin, it stands on the Po, about 780 ft above sea level, 80 m NW of Among the notable buildings are the cathedral of S John the Baptist, the church of San Filippo, the Palazzo Madama, the royal palace with a valuable library, and other palaces with fine pillared courtyards. In the Castello del Valentino are a polytechnic school and scientific museums There is a flourishing and scientific museums There is a flourishing university, founded in 1400 The Academy of Sciences is also a museum The Mole Antonel liana, also used as a museum, is the highest brick building in Europe (510 ft ) On the Hill of Superga is a basilica, used as the burial place of the House of Savoy There are several royal castles in the vicinity

Turin is an important industrial city, of Italy's motor industry Other ics include aeroplanes, metallurgy, centro industries ery, chemicals, weaving, chocolate, liqueurs and machinery, perfumes,

machinery, chemicals, weaving, perfumes, glass chocolate, liqueurs and vermouth Hydro-electric power is obtained from the Alpine valleys. The city has a broadcasting station (273 7 M 7 kW) Pop (1931) 596 566

Turkey Large game bird (Meleagus)
are two species The common domesticated birds are derived from M Gallopavo, a number of varieties having been evolved by breeders the male bird may weigh up to 34 lb, with a heavy body, metallic bronze plumage, marked with black and fan like expansible tail The latter has a white margin, and the tail coverts latter has a white margin, and the tail coverts also are tipped with white The neck and head are reddish or bluish, nearly bare, wrinkled and tuberculed, and on the head is a pendent dilatable appendage On the chest is a bunch of black bristles The bird is extensively bred for the table

Turkey Republican country Lying partly in Asia and partly in Europe, it has an area estimated at 294,416, sq m, of which 9257 sq m are in Europe, and a population of 13,660,276 This figure was This figure was arrived at in 1927 by the first census ever taken in Turkey. The capital is Ankara, but Istanbul is the largest city The next largest towns are Izmir, Smyrna, Adaua Brusa and Konia Turkey is rich in minerals but up to the present these have been little worked They

include chrome ore, zinc, silver manganese, copper and antimony Agriculture is back ward, but is being improved and extended under the new regime. Products include fruits and spices, cereals, oil, oplum, furs and hides, etc. Wool and mohair are also objects

of commerce Carpet weaving is the most important in dustry Others are being gradually built up and machinery is being imported for that purpose Among these, sugar factories may be mentioned. The Ford Company has an

assembly works at Tophane.
HISTORY The Turks enter European his tory when after a westward movement of the Ottoman tribe, Amurath I established his capital at Adrianople and defeated the Serbians at Koesovo (1389) His son, Bajazet I, anni hilated the combined hosts of Hungary and Poland at Nicopolis (1399) and Ottoman aggression continued till it reached its limit under Solyman the Magnificent (1520-66) who humiliated Vienna and marched against Germany By

the Porte In 1730 began the long series of Russo Turkish wars in which Russia appearing as the champion of the Christians under Turkish rule, pushed south the northern Turkish frontier The Crimcan War saw England and France united in protecting the Sultan's Empire sgainst Nicholas I in 1875 risings among the subject peoples of the Ottoman Empire were mercileasly suppressed and Europe rang with reports of atroctites Again in the war of 1877 and the resultant Berlin Treaty, it was foreign interference which sayed the "sick man of Europe" from Russian Russo Turkish wars in which Russia appearing saved the "sick man of Europe" from Russian domination The Young Turk Reform party was ruthlessly suppressed in 1901, but drove Abdul Hamid from bis throne in 1908. In the Great War the Turks stayed the allied attempts to force the Dardanelles (1915) A Nationalist revolution (1919) resulted in the establishment of a separate government at Angora, and a war with Greece ended in Turkeys favour (1922) On Nov 1, 1922, the sultante was abolished and on Oct 29 1923, Turkey was declared a republic with Mustapha Kemal as Decided to 1,027 = 3 in 1927. President. He was re elected in 1927, and in 1931 Government is by a Grand Assembly, elected for four years Under the guidance of Kemal, Turkey has

been modernised and has made great progress Industry and agriculture have been advanced, the position of women has been raised to European status, and western methods are being adopted in government, education and

industry

Area of Western of central Turkistan -1 Urkistan Western Turkistan formerly known as Russian Turkistan includes the northernmost province of Afghani-Eastern Turkistan is Chinese Turkistan, officially included in the province of Sin kinng.
The Pamir district occupies a large part of the area, and much is desort. The population is almost entirely nomadic, trading in skins, furs and similar articles of commerce Some of the best known of the tribes are Uzbeks, Kirghiz and Turcomans Some cereal crops are grown here and the mulberry tree is extensively cultivated. There is also considerable trade in horses The term Turkistan is used so vaguely that it is difficult to estimate either area or population.

Turks Islands the West Indies They are a British possession and are ruled from Jamaica Grand Turk is the largest.

Turnberry Pleasure resort of Ayrshire from Girvan and is a noted golfing centre Here are the ruins of a castle which once belonged to Robert Bruce On the L.M.S Rly,

Turnbuckle Kind of coupling It is a ranged that it regular lates the length or tension of the connected parts. It is chiefly used for adding tension to bars, or steel ropes

Turner Artisan who practices the art of turning This is a process by which pieces of metal or wood are shaped by holding a tool against the piece while revolving in a lathe It is used for the legs of chairs and

other pieces of furniture
The Turners' Company is one of the London livery companies

ated Vienna and marched against Germany By the Buttle of Lepanto (1571) Spain taught the Buttle of Lepanto (1571) Spain taught Turner Joseph Mallord William English the Furby was not invincible and London April 23, 1775, he learnt much about the Peace of Karlowitz (1699) was humiliating to painting, but little about anything else, his

education being considerably neglected He had the good fortune to know Sir Joshua Revnolds, and studied under his roof. He first exhibited at 15, at 21 lus reputation was established and ut 28 he was elected RA. He was an ascetic by nature, never married, and shunned all society. Turner painted in two distinct styles. His early pictures are sober in colourium, browns, blue and greys predominating. The works of his middle and late period are marked by the splendour of colour and brilliance of light of pictures such as "The Fighting Teméraire" and "The Sun of Venice Going to Sea." Much of his most beautiful work is to be found in his water colours. His industry must have been prodigious, for "Turners" are found all over the world. He died in London, Dec. 19, 1851, having bequeathed a large collection of his works to the cagine can a the cagine can are the ca

Turnham Green District of London city, it is between Hammersmith and Chiswick on the District Riv The green still remains an open space, but around the land has been built over.

Turnip (Brassica campestus) Edible tuber A native of Europe and Asia, it grows freely in Great Britain where it is cultivated as a food plant both for human beings and for cattle. It grows up to a height of 2 ft., has bristly leaves and jellow flowers. There are two main kinds. The white turnip is grown for the table, both leaves and root being used. The gold turnip or swede is grown as a cattle food, especially suitable for winter feeding. In Great Britain turnips are raised from seed sown in March or April, or in June or July for an autumn crop. The drills should be 12 in apart and they require only a slight covering of soil. The plants should be thinned out to about 6 to 8 in apart. The plant is attacked by the turnip flea which can be killed by repeated dustings with soot. They are also used to flavour soup. In 1931 the turnip crop of Great Britain amounted to 16,262,000

Turnpike Gate across a road. They common in England, their object being to enable the tolls to be collected from vehicles when the bill was paid the gate was turned Pike is an old word meaning to go or turn

quickly

The turnstile is a variant of the turnpike
It is used to arrest the entrance of visitors to
places of amusement and the like. As each
entrant pays the required fee the turnstile,
which has four arms, moves round and allows
him to pass in The modern turnstile records
automatically the number of people who pass
through it

Turnstone (Strepsilas interpres) Small lapwing, it is about 9 in in length. The plumage is black and white, with reddish brown shading on the back, white tips to the tail feathers, under plumage of white, and legs orange vellow. It frequents the shores of Great Britain from Aug to March or April. Its name is derived from its method of turning over stones and scaweed on the water's edge in search of crustacca, etc., on which it feeds

Turntable Device for moving railway some place platform which has on it one or more lines of a the langua as the literail and which rotates in a horizontal plane. It great art can thus be turned round so that the lines can and Siena.

connect with the other lines running to it, and the engine can be transferred from one set of rails to another

Turpentine Liquid used for cleaning and industrial purposes it is obtained by distilling a resin which exudes from pine and other conferous trees oil of turpentine is used in making varnishes and paints It is also used in medicine to some extent

Turpin Richard English highwayman Better known as "Dick "Turpin, he was born in Essex in Sept, 1705 He began life as a butcher's apprentice, but, wishing for a more adventurous career, took to stealing cattle and horses, to smuggling and house-breaking, and finally became a notorious highwayman He was hanged for murder in York, April 10, 1739

Turquoise Mineral used as a gem stone phosphate, containing a little copper. It is found in the rocks of Persia, Arabia and the United States. The best stones come from Persia. In colour the turquoise varies from blue to green, the best being blue. It is valued because it takes a bright polish. The name is a variant of Turkey, because the early stones came from Persia by way of Turkey.

Turret Small tower They are seen on mediaeval castles where they were part of the scheme of defence To day they are introduced into buildings for ornamental purposes Another kind of turret is the revolving structure which contains the big guns on a battleship Usually there are two guns in each turret

Turriff Burgh of Aberdeenshire It is served by the LNE Rly Pop (1931) 2298

Turtle Aquatic reptile of the tortoise (Thelomdae) family The limbs are modified into paddles adapted to the habitat The turtles resort to the sandy shores to lay their eggs The hawksbill turtle (Thelone imbricata) yields tortoiseshell The edible green turtle (C midas) is used for making turtle soup See Terrapry

Turtle Dove Genus of placens A native of N Africa and parts of Asia, the common turtle dove (Streptophcha turtur) is a summer visitant to Britain, nesting in coppies and woods, or even tall hedges It is a pest of grain crops. The plumage is ashen blue on head, wings, rump and back, wing coverts rufous, brownish tail, margined white white, under parts white to buff, there is a white and black patch on each side of the neck. The length is 11 to 12 in

Turton Urban district of Lancishire It is 4 m from Bolton and 202 from London by the LMS Rly A house called Turton Tower is of interest. It was built in the 12th century, and has been restored The town is a centre of the cotton industry. Pop (1931) 11,847.

Tuscany Division of Italy Situated to the west of the centre of the peninsula, it consists of nine provinces, having a population of (1931) 2,892,364, and an area of 8,853 sq m The valley of the Arno is the most fartile region, the rest bother hilly, and in some places thickly forested The purity of the language of Tuscany has caused its adoption as the literary language of Italy Here are the great art centres of Florence, the capital, Pisa and Siena.

From 1530 1737 Tuscany was ruled by the Medici (q, v) and on their extinction was given to the dukes of Lorraine of whom Leopold I (later the emperor Leopold II ) carried out extensive reforms During the French revolu tionary wars Tuscany was overrun, the grand duke Ferdinand III being forced to fly, and in 1801, by the peace of Lunéville, Tuscany was given to Spain only to be ceded to Napoleon In 1807 In 1814, however Ferdinand returned Under his son, Leopold II, a constitution was granted in 1848 but revolution broke out, and from 1849 1855 Leopold ruled with the help of the control of the Austrian troops In 1859 Leopold was driven out by the Florentines and in 1860 Tuscany voted for annexation to Sardinia, becoming becoming

part of the Italian kingdom in 1861

Tusculum The modern Frascati It was stunted in Latium, on a spur of the Alban hills, about 12 m south-east e' Rome When Octavius Mamilius, Tarquin s son in law, was expelled from Rome, he fled to Tusculum, whence he led the Latin allies

of Lars Porsena against the Romans

Tussaud Madame Marie Effigist Born in Berne in 1760, sho learned Effigist Born She had the art of wax modelling in Paris the art of wax modelling in Paris She had opportunities for becoming acquainted with many leading persons through the lessons in modelling that she gave to Elizabeth a sister of Louis XVI In 1802 she established herself in London, gradually building up the famous waxwork show in Baker Street Her portraits were always lifelike, and "Madame Tussaud's" is one of the sights of London She died April 16 1850 and the show is now owned by her descendants. The building was destroyed by fire in 1925, and was then re-prested upon a by fire in 1925, and was then re-erected upon a larger scale than ever

Tutankhamen Egyptian king of the succeeded, after a short interval, his more famous father in law Akhenaton whom he had assisted in his religious reforms. His reign (c 1350 B c) appears to have lasted only nine years In Nov, 1922, his tomb-chamber was found intact in the Valley of the Kings by excavators working under the direction of the late Lord Carnaryon This discovery proved to be the most remarkable ever made in the history of Egyptological research, for the outer and inner chambers of the tomb contained treasures in unparalleled profusion, including the royal sarcophagus, two splendid canopies a magnificent chair of state, the paddles of the royal barge amulets, scarabs, etc

Town of Staffordshire 1 ULDULY 4 m from Burton on Trent, and 140 from London by the LMS Rly Standing on the Dove, it has an agricultural trade It is known for its eastle, now a ruin, in which Mary Queen of Scots was imprisoned. The parish church is a fine burton to the control of th The parish church is a fine building Norman doorway being specially notable The castle and the surrounding land is the property of the Duchy of Lancaster Pop 2062

Twain Mark Pen name of Samuel Lang and author He was born at Florida, Miss, Nov 30 1830 In turns printer, river pilot miner and journalist he gained fame overnight with The Celebrated Jumping Frog of Calareras County, the result being that he was commissioned in 1867 by a San Francisco paper to write letters descriptive of a European trip These were published under the title of The Innocents Abroad, and had a prodigious sale, as did also A Tramp Abroad, published 1880

Among many other works were The Prince and the Pauper, Tom Sawyer, Huckleberry Finn He died April 21, 1910

Tweed River of Great Britain It rises in the county of Peebles and flows through the county of Selkirk into Royburgh through the county of Selkirk into Hovburgh shire At Kelso it becomes the boundary between England and Scotland, which it remains until just before it enters the sea at Tweedmouth It is 98 m long and its tributaries include the Ettrick, Till and Teviot It is noted for its fishing and is famous in stories and legends of the border country

Tweedmouth Town and scaport of stands at the north of the Tweed, opposite

stands at the north of the Tweed, opposite

stands at the north of the Tweed, opposite Berwick with which it is linked by a long stone bridge of 28 arches It is 324 m from London and has a station on the L N E Rly Shipping and fishing are the chief industries Pop 5000. The title of Baron Tweedmouth has been borne by the family of Marjoribanks since 1881 Edward Marjoribanks, the 2nd baron was a Liberal M P from 1880 to 1894 when he represed the father in the nearner. Having succeeded his father in the peerage Having been chief whip of the Liberal party when in opposition, he was Parliamentary Secretary of the Treasury, 1892 94, and Lord Privy Scal 1894 95 In 1905 he was made First Lord of the Admiralty an office he left in 1908 in consequence of a letter he wrote to the German Emperor He was then made Lord President of the Council and he died Sept. 19, 1909 son, Dudley Churchill Marjoribanks, became the 3rd baron, is known as a sportsman.

Twelfth Day Twelfth day after Christmas, therefore Jan 6 On it the feast of the Epiphany is held to commonorate the bringing of gifts to Jesus Christ by the wise men on this day In the 16th and 17th centuries Twellth Night was a time of rejoicing, festivities of all kinds being held Shakespeare's comedy, Tuctifit Night, or What You Will was probably written to be first performed on this night.

Twelve Tables  $rac{ ext{The}}{ ext{Roman law}}$ Code One of the earliest written codes, it was drawn up in 449 BC by the december, a body of ten chosen for the purpose, after a long struggle between patricians and plebeians The laws were the written expression of old Roman customs, and their appearance marked a definite step in the progress towards liberty of the Roman people, who had hitherto been at the mercy of patrician magistrates

Twickenham Borough of Middlesex on the S Rly from Waterloo York House, on the S Rly from Waterloo once a royal residence, has been bought for the council offices, the grounds are open to the public as are those of Marble Hill, which stretches down to the Thames In the river here is Eel Pie Island and in the borough is the football ground of the Rugby Union where the international and other important matches are played Alexander Pope, who is buried in the church, had his famous villa here A newer one occupies the site Twickenham was made a borough in 1926 Pop (1931) 39,909

Twilight Sleep Obstetric method of insensibility to pain and partial unconscious ness by the use of the drug scopolamine morphine By this means it is claimed that the montal and physical partial insensibility and physical partial mental and physical pains of childbirth may be removed or prevented without any injurious after-effects.

Two Step American dance Popular of the 20th century, it soon give place to the one step. The step is similar to the polka, and is included in various other dances

## Two Thousand Guineas

In England one of the five great horse races It is run at Newmarket over the Rowley mile on the Wednesday of the first spring meeting It is for colts and fillies which are three years old. It was first run in 1852

Twyford Village of Berkshire It is 31 m from London by the GW RIV, on which it is a junction Pop 1209 There is a village of the same name near Winchester, which is 60 m from London by the S RIV

Tyburn Name of a small tributary of the Tyburn Thames It gave its name to the callows formerly standing at the west end of Oxford St., London, not far f a the modern Marble Arch The last execution there took place in 1783 Among those who met their fate there were Perkin Warbeck (1419), the Jesuit, Edmund Campion (1588), Jack Sheppard (1724), and Earl Ferrers (1760) The skeletons of Cromwell and his associates were hung in 1661 The stream flowed from Hampstead heights in a southerly direction to the present site of Buckingham Palace

Tyldesley Urban district of Lancaindustry, it is 5 m from Bolton, and 195 m from London by the LMS Rly There are coal mines in the neighbourhood The urban district includes Shakerley Pop (1931) 14,848

Tyler wat Leader of the peasants' revolt in 1381 The story goes that he killed a poll-tax collector, then gathered a following in Kent and Fssex, and marched to London, doing much damage On their arrival at Smithfield they were met by Richard II and the Lord Mayor, the latter killing Tyler during an altercation This revolt was but one of many risings in different parts of the kingdom, the chief cause being unjust taxation

Tympanum An ancient musical "Tympanon" by the Romans, this name appeared to include the tambourine and the kettledrums, the instrument was used at Bacchanalian feasts

In architecture, the tympanum is the triangular space contained between the horizontal cornice and the two sloping cornices

Tyndale William English translator of the Pentatouch and the New Testament He was born in Gloucestershire, about 1492, and educated at Oxford He then went to Cambridge, probably attracted by its reputation as a centre of Greek study which Erasmus had helped to establish In 1525 we find him in Cologne, where he began to print the New Testament in English It was published in Worms the same year, and was followed by several other editions He also translated the Pentateuch and several other portions of the Bible He suffered martyrdom, Oct. 6, 1536

Tyndall John British scientist. He was born in Co Carlow, Ireland, Aug 21, 1820 He studied at Marburg University, and held many important posts, such as Professor of Natural Philosophy at the Royal Institution (where he was a colleague of Faraday), scientific adviser to Trinity House

and the Board of Trade, and superintendent of the Royal Institution. He was eminent as a lucid exponent of last century's physical science, and wrote a number of books on the subject, some of the most important being Heat as a Mode of Motion Floating Matter in the Air, Lectures on Light. He died Dec. 4, 1893

Tyne River of England It is formed by the union of two streams, the North Tyne and the South Tyne, which unite at Hexham The former rises in the Cheviot Hills and the latter near Crossfell and before they join each has travelled about 33 m. The Tyne proper is 30 m. long and is a great industrial river. It passes by Jarrow, Wallsend, South Shields, Gateshead and Newerstle and falls into the North Sea at Tynemouth. On its banks are great shipping yards and engineering works.

Tynemouth County, borough and scaport of Northumberland It stands at the mouth of the Tyne, 6 m from Newcastle, and is reached by the L.N E Riv It includes North Shields and Cullercoats which is a pleasure resort. The chief industry is shipping for which there are large docks. The borough, which dates from 1849, sends one member to Parliament. Pop. (1931) 64,913

Tynwald Hill in the Isle of Man It is to Peel and is the place where the laws of the island after having been passed are read on July 5 A fair is held on that day In 1928 the hill was presented by the king to the island Near is the Manx war memorial The two houses of the parliament of the island are called the Tynwald Court, when they meet together for public business

Typewriter Machine for producing type on paper without the use of the pen It appears to have been invented early in the 18th century, but it was not put to practical use until well into the 19th. There are various kinds of machines on the market, and all contain mechanism for reproducing capital and small letters, figures, etc.

Typhoid Infectious disease Also known as enteric fever, it is due to the presence in the alimentary canal of an organism, the bacillus lyphosus Infection may be conveved by a contaminated water supply, milk, food, or defective sanitary arrangements. The disease incubates from 8 to 14 days, followed by diarrhea, rapid pulse, bodily prostration and not infrequently purplish spots which appear on the abdomen Owing to the high fever, the urine becomes deficient and may cause uraemic poisoning coma and death Perforation of the intestine and bleeding into the bowel are the two most dangerous complications of this fever

Typhoon Cyclonic hurricane The term is applied to a violent type of hurricane occurring in the China Sea from July to Nov, and having its origin in the southern waters under calm conditions and extreme heat. Apart from the danger to shipping, the immense waves associated with the typhoon often cause destruction on the coasts

Typhus Fever Infectious disease Also known as gaol fever or spotted fever, it was once prevalent as a regularly recurring disease in Western Europe It is known now that the causative organism is conveyed by lice, hence the disappearance of the disease where bodily cleanliness is observed After an incubation of

1246

12 days shivering, a rapidly rising temperature and severe vomiting sets in, followed by a skin A feeble heart action may cause aottaurie coma and death in severe cases

Typography Art of printing, whether type or from type setting machines, such as are used in modern printing. The letter or figure, word or line, which is used in the printing process, is called type. In olden times it was of wood but to day it is usually of type metal, a mixture of lead and antimony. It is occasionally set or of lead and antimony It is occasionally set or put in position by hand, but usually by machines

There are several kinds and sizes of type, each with a distinctive name. The sizes are each with a distinctive name. The sires are diamond, pearl, ruby, nonpariel, minion, brevier, bourgeois, long primer, small pica, pica, great primer, and others still larger Type is also reckoned in points, an American device Brevier, for instance, is 8 point, and great primer is 18 A higher point means a larger type.

Tyrant Originally, a despotic ruler The term was applied in particular to rulers over the Greek city states in the 7th and 6th centuries BC, such as Hiero of Syracuse, Pelsistratus at Athens, etc With the passing of time the word received its modern mean ing, although originally it hold no derogatory eense

Born in Ireland Earl of Tyrconnel Earl of Born in Ireland bot came early to London, gained the royal favour, and soon showed himself to be devoid favour, and soon showed himself to be devoted of any scruple James II created him Earl of Tyrconnel and Lord Deputy of Ireland, with command of the troops there At the revolution he curried favour with William III, but after the Battle of the Boyne he field to France He dled soon after his return to Ireland in 1691

Tyre Phoenician seaport It was founded in the 15th century BC, and became the great mart of the Mediterranean world Originally a colony of Sidon, it was divided between the mainland and the island, which were joined by a causeway As an island fortress, Tyre withstood many slegges, but was captured by Alexander the Great in 332 BC, taken by the Muslims captured by the Crusa dors and finally destroyed by the Crusa after the fall of Acre In Roman times, Tyre was famous for its silk and purple dye. To-day it is in the state of Great Lebanon, French mandated territory and is known as es Sur Its trade is insignificant Pop 57,000

hoops are used. For bicycles and cars rubber or pneumatic tyres are employed, the latter more generally. An inner tube of rubber is made separable from the outer cover Bicycle tyres are repaired by a solution of rubber in CS, motor-car tyres by vulcanising Vast improvements have taken place in their mann facture during recent years

County of Northern Ireland. It Tyrone is elitiated south of London-lerry, where the river Foyle forms the derry, where the river Fovle forms the boundary, other rivers including the Black-water and the Derg With the exception of the eastern plain the county is hilly, the chief heights being the Sperrin range Cattle are raised, and outs flax, and potatoes are the chief crops The county town is Omagh Clogher, once important ecclesiastically, has a cathedral dating from the 18th century The derry,

Clogher, once important ecclesinstically, has a cathedral dating from the 18th century The area is 1218 sq m Pop (1926) 132,792

Tyrrell Aug 17 1866, and educated at Oxford, William George Tyrrell has had a distinguished diplomatic career He entered the Foreign Office in 1889, where from 1896-1903 he was private secretary to the Under-Secretary, secretary to the Under-Secretary, secretary to the Imperial Defence Committee, 1903 4, acting secretary to the Committee, 1903 4, acting secretary to the Embassy in Rome 1904 From 1907 1925 he occupied other important posts at the Foreign Office He was Permanent Under Secretary from 1925 28, and British Ambassador in Paris, 1928 34 In 1934 he received the Grand Cordon Legion of Honour

Tyrrell Father George Irish divine He family, Feb 6, 1861 Entering the Roman Catholic Church, he was ordained priest in 1891 His advocacy of modernist views brought about his dismissal from the Society of Jesuits, followed by his excommunication in 1907. For the last twelve years of his life he was the close friend of Baron von Hügel He died July 15, 1909, having received absolution on his deathbed

Tyrwhitt Admiral Sir Reginald Yorks British sailor Born May 10, 1870, he became licutenant on H.M.S Cleopatra in 1894 In the Great War he commanded destroyer fiotilias near Heligoland, and was in action off the Dogger Bank In 1921-22 he commanded the third light carries and the commanded the street of the commanded the street of the commanded the street of the carries and the commanded the street of the carries and the carries are street of the carries are str commanded the third light cruiser squadron in the Mediterranean, was commanding officer of the Coast of Scotland, 1923 25, and commander-in chief of the China station, 1927 29 He was promoted to the rank of admiral in 1929, and has been commander in chief at the Nore since Tyre Outer part of a wheel On many 1930 He was created baronet in 1919 and farm and commercial vehicles metal made G C.B in 1929

ated on the Sussex Ouse, it is 8 m from Lewes and 53 from London by the S Rly It is a farming centre and had an agricultural college.

Pop (1931) 3557

British protectorate of E Central Africa. It has an area Uganda British protectorate of Ecentral Africa. It has an area of 91 201 sq m and a population of 3,553,534 (1971) Administration is by a governor, assisted by executive and legislative councils, but the native states are encouraged to practise a degree of home rule Kampala is the capital, with the administrative headquarters at Enteroise The country lies round the great lakes Victoria and Albert Nyanza, Rudolf and others There is much big game in the swampy areas and tropical forests. Ivory is exported also skins, chillis, coffee and cotton is not very healthy for Europeans, and sleeping sickness is a scourge both to them and to the native races Since the discovery of the teetee fix as carrier of the parasite responsible for the disease, it has been possible to control this to some extent. The European population has

Uhlan in the Great War, there were regiments of Uhlans, corresponding to the lancer regiments in the British service lancer regiments of the lancer regiments of the Uhlans, corresponding to the lancer regiments in the British service lancer regiments of the Outer Hebrides, Uist belonging to the country of Inverness They are mountainous. On North Uist the

They are mountainous On North Uist the chief place is Lechmaddy at the head of a harbour and on South Uist it is Lechboisdale The inhabitants are engaged in cattle and sheep rearing and fishing. North Uist is 18 m long and South Uist 22 m

Uitlander Dutch word for a foreigner or outlander It is chiefly used in S Africa, when, in the Transvaal and Orange Free State before 1899, the British

were regarded as uillanders

Were regarded as inflanders
Were regarded as inflanders
Were regarded as inflanders
Were regarded as inflanders

Soviet republic of S W Russia.

Ukraine It comprises the former governments of Chernigov, Kharkov, Kiev, Poltava.

Ekaterinoslav, Kherson, Podolia and Voltymia and Joined the Soviet Union in 1920

The chief and Joined the Dnieper, Dniester, Bug and Liver are the Dnieper, Dniester, Bug and and joined the Soviet Union in 1920 The chief and joined the Dnieper, Dniester, Bug and rivers are the Dnieper, Dniester, Bug and Donetz, and the main feature of the country Donetz, and the main feature is the most is its steppe land Agriculture is the most is its steppe land Agriculture is the most is its steppe land agriculture is the most important industry, the Ukraine being the important principal cereal-growing district of Russia principal cereal-growing district of Russia principal cereal-growing is carried on a large duced, stock raising is carried on a large duced, and flour milling, sugar rofining, oil scale, and flour milling, sugar rofining, oil pressing, leather and textiles are important industries. The minerals include salt, coal, industries. industries. The minerals include salt, coal, iron, manganese and mercury, and the iron, manganese and mercury, and the metallurgical, chemical and other industries contribute a large proportion of Russla's output There is considerable hydro-electric development on the rivers. The capital is Kharkov and Odessa is the principal port. Other large centres are Kiev Dnepropetrovsk and Ekaterinoslav Area 166,368 sq m. Pop (1931) 31,403,200 (1931) 31,403,200

-BOAT Abbreviation for Uniterectoof, the German name for a submarine As used in the Great War they were marked U, followed by a number See Submarine Uckfield Sussex Situseer Ouse, it is S m from Lewes Indian and the United States.

Ukulele Small musteal instrument. It played by plucking them much as a banjo The instrument belongs to the Hawaiian from where it was introduced into Great Britain and the United States. Great Britain and the United States.

Ulcer Open discharging sore Some Ulcers are of a chronic nature and may arise from local infection or inflam-

may arise from local infection or inflam-mation of the tissue, and some are of a tubercular or syphilitic nature Bed sores are of ulcer arising from continuous friction through being always in one position during illness Suitable medical treatment is essential in all cases, and in the case of ulceration of the limbs rest is imperative

Ulex Botanical name for gorse or furze, shrubs of the bean family

Ullswater the borders of Cumberland and Westmorland, between Keswick and Penrith, and is perhaps, the most beautiful of the English lakes It is 7½ m long Steamers traverse it, touching at Pooler Bridge, Potterdale and Howtown

Patterdale and Howtown
Ullswater was born April 1, 1855 and educated at Eton, King's College, London and Trinity College, Cambridge He was called to the bar in 1879, entered Parliament as member for Rutland in 1883 represented Penrith, 1886-1921, and was Sneaker of the House of Commons from and was Speaker of the House of Commons from 1905 to 1921, being created viscount on his retirement. Since then he has served as chairman of many royal commissions, such as those on London government, political those on London government, political honours and electoral reform. He is a trustee

honours and discounding the British Museum of the British Museum, in the republic TTI City of Germany, in the republic TTI City of Honours and It is situated on TTI City and of the British of Germany, in Stuated on City of Warttemberg It is situated on the Danube, at the point where the Biau and the Iller join the main stream, and is 58 m. SE of Stuttgart. Across the Danube is New Ulm, in Bayaria. The vast cathedral, with a conspicuously lofty spire, dates from the aconspicuously lofty spire, dates from the aconspicuously lofty spire, dates from the contury town that century the brass foundries breweries and other manufacturing establishments was originally a free imperial city Pop 59,000

One of the four provinces of Ireland It is in the north of the country, and consists of the counties of Donegal, Londonderry, Antrim, Tyrone, Cavan, Fermanagh, Monaghan, Armagh and Down The area is 8611 sq m and Belfast is the provincial capital The six counties in the north-east form the state of Northern Ireland, the other three—Cavan Donegal and Monaghan the other three—Cavan, Donegal and Monaghan—are in the Irish Free State.

Ultimatum kind It is used most any generally for the final demand that precedes a declaration of war Thus in Aug, 1914, the British Government issued an ultimatum requesting Germany to respect the neutrality of Belgium. Finai demand of Belgium.

(From Ultramontane ultra, perond and mons, a mountain) Ultramontanists are those who maintain the supreme authority of the Papacy over the Catholic Church, in all countries, in matters which infringe upon temporal flairs, eg appointment to benefices and evenues, as well as in the spiritual sphere, e matters of faith and morals

Jitra-Violet Rays a wave length ext to and shorter than the visible rays hey are present in sunlight, and are a source of the beneficial properties of which advantage taken in sun bathing Generated artificially hey are used for treatment of rickets, heir beneficial action being due to the formation in the skin of the vitamin which is necessary for the proper formation of bone for SIN BATTENG ee SUN BATHING

Ulund: Village of Zululand, until 1883 Ulund: the residence of the Zulu kings on July 4 1879, a Zulu army was annihilated by Lord Chelmsford at Ulundi, and after the pattle the royal kraal was burned. In 1883 Detywayo was reestablished by the British ti Ulundi, but he was driven out by his rival, Usibepu

Ulverston Market town, scaport and urban district of Lanca shire It is on Morecambe Bay 26 m from Lancaster, on the LMS Rly The industries are coal mining and iron founding Pop (1931) 9235

Ulysses (Odysseus) One of the heroes Odyssey describes his ten years' adventures on his way home after the destruction of Troy He blinded the one eyed cyclops Polyphomus, visited the sorceress Circe and the nymph Calvpso, salled safely between Scylla and Charybdis, resisted the Sirens, and after other adventures reached home

Umber Brown earth containing iron and manganese oxides It is used as a pigment by artists When calcined or burnt it gives a warmer tint than the raw umber

Umbra Region of complete shadow obstructs light In astronomy it is used for the dark cone that is projected from a planet on one of its satellites on the side away from the sun The outer region of partial shadow is called the penumbra  $(q \ v)$ 

Umbrella Contrivance for protecting a person from rain or snow Umbrellas were used by the Chinese and were regarded in the East as a sign of rank Jonas Hanway, who died in 1786 is regarded as the first man habitually to carry an umbrella in

England

(Magnolia um-brella) American Umbrella Tree species of small magnolia tree The blossoms are white and the long, oval leaves radiate from the end of the flowering branches in a form suggesting an umbrella

Umbria Ancient and modern district from the Umbri, the chief Italian tribe before the Roman conquest. Modern Umbria, not the Roman conquest. Modern Umbria, not entirely co extensive with the ancient district, contains many manufactories, besides hydro electric plants, and is touched by the main lines from Rome to Florence and Ancona

Umpire Person called in to decide an industrial or other dispute The word is also used for the two men who interpret the rules and decide doubtful points at cricket and in general control the course of the game In most other games the term referee is used The word umpire is employed, however, at the university boat race and other sporting events

Umtali Town of Rhodesia It is 170 m from Salisbury with which it is connected by railway The town is the distributing centre of a mining and agricultural district and the starting point of important roads Pop 2300 (whites)

Una Character in Spensor's Facric Queene Lovely in person and in character, her name denotes singleness of heart and mind in devotion to all that is true and beautiful She is therefore, regarded as the personification of truth

The Term used in Unconscious psychology to denote the deep regions of the mind where repressed memories survive and act It cannot be reached by normal memory, but only by psycho analysis (q v) its content being usually repugnant to the conscious mind. Its im portance to the individual lies in its effect on overyday behaviour In his relation to society he is forced to repress his natural instincts, and these, now operating in the region of the unconscious, are responsible for emotional conflicts which express themselves in dreams and as irrational dislikes, fears, inhibitions and physical disabilities See Repression, Inphysical disabilities SUBCONSCIOUS HIBITION

Unconsciousness Complete loss of sensibility It may be caused in many ways, such as by poisoning, apoplexy, intense cold, loss of blood, violence especially to the head etc. The patient should receive immediate medical attention and in the meantime should be placed in a horizontal position, the head being on no account raised unless the face is flushed, when cold water may be applied, otherwise, the patient should be kept warm. Any obvious injury may receive suitable first aid treatment.

Unction Extreme See Extreme.

Undercliff Name used for the coastline of the Islo of Wight between Ventnor and St Catherine's Point It is famed for its mild climate and its beautiful scenery It is about 6 m long and about 1 m wide

Undertaker A contractor To day pecially for one who contracts or undertakes to carry out funerals

Historically the word is used for those who settled in Ireland in the 16th and 17th centuries and undertook to cultivate the land that was granted to them Other undertakers started negotiations with James I for a contract to collect the country's revenue, but the proposal fell through

One who takes up or Underwriter underwrites a policy of insurance The word is chiefly used for the men, generally members of Lloyds who insure ships and their cargoes It is also used for the financial houses and individuals who insure the success of an issue of capital In return for a certain percentage they undertake to subscribe for such parts of the issue as are not taken up by the public The commission paid varies with the nature of the security and the conditions prevailing at the time

Undine Name given in legend to a water sprite She is soulless, and can obtain a soul only when she becomes the mother of a child after marriage to a mortal Undine, the novel of De la Motte Fouque, is a story based on this idea

Undset Signid Norwegian novelist Born in 1882 at Kallundborg, Denmark, she was educated at Christiania in 1912 she wrote her first successful novel Jenny, which was translated into English in 1917. She became a Roman Catholic after the World War and wrote a novel of historical interest, Kristin Larransdaller, which was translated into English in 1930. She was translated into English in 1930. She was translated into English in 1930. She was translated into English in 1928, and her other novels include The Cross (1927) The Axe (1928), The Son Arenger (1930), The Wild Orchid (1931) and Ida I lizabeth (1933).

Unemployment Absence of employment usually work that provides a livelihood The conditions of modern industry, mass production, fashion, machinery, the credit system and many other factors have created a great, but varying, amount of unemployment which presents one of the most fermidable problems of the day No single solution is possible, but something may perhaps be done by stimulating demand and reducing hours of labour As however, a perfect equilibrium between production and onsumption can never be reached unemploy-nent is never likely entirely to disappear Since the Great War there has been a great

increase in the number of unemployed, although this is partly accounted for by the greater fulness and accuracy of the figures kept by the various nations. In Great Britain Lept by the various nations of the palent 2000,000 the number of unemployed, kept by the various nations. In Great Britain the figure has only rarely fallen below 2,000,000, and in 1932 it was only a little under 3,000,000, or something like one fifth of the working population. In 1932 Germany reported over 6,600,000 unemployed. For the United States there are no exact figures, but 10,000,000 and even 12,000,000 were freely mentioned. In 1932 it was stated by the International Labour Office that 30 per cent of the workers were unemployed. Succeeding years, however, have shown a steady improvement, and in 1935 the unemployed Succeeding years, however, have shown a steady improvement, and in 1935 the total number of unemployed in Great Britain was 1,919,000 The German unemployment figure for 1935 was given as 1,711,000, but this may be misleading In the United States the number had dropped by 1935 to about 4,000,000

UNEMPLOYMENT INSURANCE Since 1911 Great Britain has had a system of insurance against unemployment, and a similar scheme has been in operation in Northern Ireland The contributions payable and the benefits receivable have been altered several times, the last time being as from July, 1934, while the minimum entry age was lowered from 16 to 14 as from Sept, 1934. The scheme applies to all manual workers and to all others who are in receipt of less than \$250 a year and UNEMPLOYMENT INSURANCE Sinco 1911 applies to all manual workers and to all others who are in receipt of less than £250 a year and are between the ages of 14 and 65, with the exception of two large classes, agricultural labourers and domestic servants. About 13,000,000 persons are insured under the scheme, which is controlled by the Ministry of Labour. The local centres for the payment of benefits are the employment exchanges and the effects of trade unlong.

offices of trade unions
The rates of contribution are per week

	Insured Person	Employer
Males	10d	10d.
78 to 01	<b>9J</b>	9d.
111 +0 19	64	5d
" 14 to 16	žď.	3d.
Women	0d.	9d. 8d
,, 18 to 21	<b>8</b> d	840
18 to 18	41d	41d
14 to 16	24	2d.

The benefits are

women 15s per week with smaller sums for those under 21 years old. In addition 9s a week is paid for a wife or other adult dependent and 2s for each child

Owing to the serious increase in unemployment, it was necessary for the state to borrow large sums in order to maintain the benefits, and in 1931 over £100,000,000 had been so borrowed The Act of 1934 followed reports of a royal commission appointed to investigate the situation and by it the debt was funded, to be repaid at a fixed annual rate. Also it restored the 10 per cent benefit economy cut of 1931, and granted additional days, increasing benefit in certain cases beyond the 26 weeks previously specified

Ungava District of Canada It lies in area of 456 000 sq m There is much forest land in the S and rich deposits of from ore Lead and copper are also found. There are large numbers of fur bearing animals with consequent trade in skins. The territory became part of Quebec in 1912

Uniat Name used for Christian churches that are Greek in practice, but have accepted the authority of the Church of Rome. They are found in various places in the Balkan area and other parts of Europe and Asia Minor The largest are the Ruthenian and the Armenian

Unicorn Fabulous animal with head and body of a horse and a long, sharp horn in the middle of its forchead. Its existence is testified to by Pliny, Aristotle and the Bible but it is probable that it was confused with the rhinoceros. The Scottish royal arms are supported by two unicorns, giving rise to the traditional rivalry with the English lion

Uniformity Conformity to one pattern have been passed from time to time to enforce have been passed from time to time to enforce a set form of religious worship. In England they were passed in 1549, 1552 and 1559. The fourth and last, passed in 1662, ordered all elergymen to be properly ordained, to accept the 39 articles and to use the Book of Common Prayor. Those who refused were expelled from the Established Church and joined the Nonconformists.

Union Act Name of two Acts of passed in 1707, the English and Scottish Parliaments were united By the second, passed in 1800, the British and Irish Parliaments were united Each aroused a good deal of opposition in its particular country The Irish union was partly annulled by the legislation of 1921-22 Another Act of Union was that which in 1907 created the Union of South Africa.

Union Day Annual public holiday in 31, it commemorates the foundation of the Union of 8 Africa in 1910

where for the payment of ymont evchanges and the substitution are per week bution are per week.

This is a substitution are per week bution are per week bution are per week bution are per week.

This is a substitution of S Africa in 1910

Union of S Africa in 1910

It originated in

Rule to Ireland A number of Liberals, led by the Marquis of Hartington and Joseph Chamber of Unionist because they were determined to maintain the union between England and Ireland In 1895 they iolined the Conservative party in forming a government, and gradually the two parties of Unionist After the Great

War when Home Rule had ceased to be a vital question, there was a return to the name Conservative The name Unionist, however, is still used and the official name for the Central Association of the party is Conservative and

Association of the party is Conservative and Unionist. See CONSERVATIVE
Union Jack Britain. It is the outcome of the union of the banner of S George white with a red cross for England, the Lanner of S Andrew, blue with a white diagram cross, for Scotland and the hanger of S Patrick, the transfer of Scotland and the hanger of S Patrick,

white with a red diagonal cross, for Ireland. The Union Jack Club is a club for men of the navy, army and air force. It was founded in 1907 and a building was erected in Waterloo

Road, London, S.E 1

Unitarianism Theological term It God and is generally used to designate the faith held by those Protestants, who, while denying the doctrine of the Trinity and other beliefs of orthodox Christianity, nevertheless accept the pre-eminence of Jesus Christ as a religious teacher and prophet. English Unitarians trace their origin to the ejection from the Established Church of the 2000 clergy under the Act of Uniformity in 1662 in 1813 the last disabilities from which Unitarians suffered were removed, and since then their faith has flourished in England under the leadership of such men as Martineau, Stopford Brooke and Estlin Carpenter orthodox Christianity, nevertheless accept the

United Irishmen A revolutionary of 18th revolutionary century Ireland Shortly after the French Revolution, malcontents, profiting by a wave of unity which allied Presbyterians of the North with Catholics of the South, sought to introduce French ideas and to precure an independent Irish Republic Foremost among these were Tone, Russell, Emmet and Tandy while Lord Edward Fitzgerald agitated on their behalf. This unrest culminated in the rebellion of 1798, which was repressed, after which the organisation was broken up

United Kingdom Name given in 1800 to the king dom of Great Britain and Ireland. The parliaments of England and Scotland were united in 1707, and the first parliaments of Great Britain and Ireland met in June, 1801 The latter union was dissolved in 1922, when the Irish Free State was established and to-day the phrase United Kingdom means the United Kingdom of Great Britain and Northern Ireland, i.e the areas represented in the Parliament at Westminster See England, Northern Ireland, Scotland, Wales

United Methodist Church. English Noncon formist body It was formed on July 26, 1907, by the union of three churches which had seceded at different times from the Methodist body founded by John Wesley—the Methodist New Connection (1797) the Bible Christians (1815), and the Methodist Free Church (1857) With the consummation of Methodist Union in Sept. 1932 the United Methodist Church Sept, 1932 the United Methodist Church ceased to have a separate existence

Province of United Provinces India, in full

native states. The Ganges flows through the province, which is an agricultural area. It is governed by a legislature of 123 members, of

governed by a legislature of 123 members, of the whom 100 are elected Pop (1931) 48,408,763.

The term United Provinces is also used for those provinces of the Netherlands under the leadership of Holland that revolted against Spain in the 16th century. In 1581 they declared their independence, which was recognised by Europe in 1648 by the Treaty of Westphalia. See Netherlands

United Service Museum Museum In London belonging to the Royal United Service Institution. Museum. Museum It occupies the banqueting hall in Whitehall and contains articles showing the development of weapons, ships and aeroplanes, as well as naval and military relics and models. It is open to the public every day except Sunday

United States Country of North America It extends trom the Atlantic to the Pacific Ocean, with Canada on the north and Mexico on the south. It has a total area of 3,026 789 sq m. The population (1930) was 122,775 046, of whom 11 891 143 are negroes, and 2,019,696 belong to other races who are not whites A few Indians remain living chiefly on reservations Washington is the capital, but New York is the minimal of the preparation with a contraction of the preparation of the prepa the principal city Other places with over a million inhabitants are Chicago, Philadelphia. Detroit and Los Angeles.

The country contains great varieties of climate, but is entirely habitable, and except in certain areas the soil is fertile In it are parts of the Great Lakes. The greatest river is the Mississippi with the Missouri and other the mississippi with the many other great tributaries, but there are many other great rivers including the Hudson Delaware, Poto mac, Savannah and Colorado The greatest mountain ranges are the Appalachians in the

east and the Rockles in the west.

The United States is rich in natural wealth of almost every kind. It has vast deposits of coal, iron and copper, and much of the world's oil and silver comes from the country. Maire, wheat, cotton tobacco and sugar are grown on a vast scale As a manufacturing country

The United States consists of 48 states, divided into groups according to geographical position, and differing greatly in size and in other ways. Texas is the largest and Rhode Island the smallest Several cover over 100,000 sq m., or twice the size of England. One group in the north-east forms New

England.

The possessions of the United States are The possessions of the United States are Alaska, the Philippine Islands, the Hawaiian Islands, Puerto Rico, Guam the Virgin Islands and some Samoan Islands, as well as the Panama Canal zone The country is a republic governed by a president elected every four years, and a ministry responsible to a legislature called Congress (q v) The constitution is a written one, and its terms cannot be altered without considerable difficulty. The country has an army a navy of considerable size and has an army, a navy of considerable size and an air force The unit of currency is the dollar

an air force The unit of currency is an action and most of the currency is in paper History The United States originated in settlements made by English and Dutch on the Atlantic coast, but in the 17th century the Dutch Atlantic coast, but in the 17th century the Dutch Atlantic coast, but in the 17th century the Dutch atlantic coast, but in the 17th century the Dutch Atlantic coast, but in the 17th century the Dutch atlantic coast, but in the 17th century the 17th c the United Provinces of Agra and Oudh It was formed in 1902 and since 1921 its chief official has held the rank of Governor It covers 166 248 sq m Lucknow is the capital other places are Cawnpore, Benares, Allahabad, char Bareilly and Meerut. In it are three followed and in 1783 thirteen of them, hencecolonies were acquired by Great Britain. These were in the main independent of each other, but in 1776 a union was formed to resist the claim of Great Britain to tax them. A war

orward known as the United States, declared heir independence. A constitution was formed, nd in 1788 they elected their first president, leave Washington. The country then exrended westwards as far as the Mississippi, but radually further areas were acquired and resh states entered the union In 1800 Louisiana was bought from France, and in 1810 Florida from Spain A war with Mexico, 1846-48, brought the territory in the south into the union and by the time of the Civil War the land had its present area, though in the west much of it had not taken on the status of states. The last states to join the union were Arizona and New Wexico in 1912

In 1861 the United States were engaged in a Civil War in which the northern federal states fought the southern confederate states, who claimed the right to secede and to keep their slaves. Finally the north, with its vastly superior resources won the union was saved and the slaves freed. Reconstruction was followed by an erro of expansion and extraordinary prosperity, alternating with periods of depression, the most severe of which was in 1930-32 In 1917 the United States entered the Great War on the side of the Allies, and her riatesmen had a large share in framing the Treaty of Versailles She did not, however, enter the League of Nations the author of which was her picsident, T Woodrow Wilson (q 1) In 1932 Franklin Roosevelt (q v ) became president His government took part in the World Monetary and Loonomic Conference, called by the League of Nations in 1933 Among Hoosevelt's economic difficulties were the vast number of unemployed, deferred payments of war debts by other countries, demands for continuation of the ex soldiers' bonus, and a budget deficit—in 1934 it was £1,800,000,000 In Sept of that year Roosevelt appointed a committee to take charge of the broad policies of future legislation of his famous National Recovery Administration (NR.A) The Finance Committee of Senate in May, 1935, voted continuation of the NRA. for another year, but the Supreme Court decided that unconstitutional power was thereby surrendered by Congress to the President, and in June the NRA chairman resigned Yet the bill for its extension was passed, although Senator Huey Long spote in the Senate against it for 16 hours

Marked opposition, however, had undermined the NR.A., and President Rossevelt brought forward his New Deal, which was "to give Labour freedom to organise and pro-tection from exploitation, to safeguard and develop the national resources," etc. Its farm programme was put in the hands of the Agri-cultural Adjustment Administration (A A A), signed by the president Augustianian (AAA), signed by the president Aug, 1935, and despite a declaration of unconstitutionality by the Supreme Court in Jan, 1936, this administration introduced a bill giving it power to make grants to farmers on specified bases

Universal Word used for a general term in logic Its opposite There are five classes of universal genus, species, difference, property and accident, but their nature led to great arguments among the scholars of the Middle Ages "All cats are unimals" is a universal, "some cats are black" is a particular

In 1880 a Universal Language universal language named Volapük was brought forward, and other efforts are Esperante, invented by Unknown Warrior Body of an Dr Zamenhof, a Warsaw medical man, in 1887,

and Idiom Neutral Esperanto has made some headway and is practicable as an auxiliary language

Universe The whole system of created things Man has always Man has always speculated on its nature, extent and the means of its creation Until the 17th century the carth was considered as the centre, with the sun moon and stars revolving round it. In 1632, however Gallieo showed that the earth moved round the sun, and the work of Newton and Kepler led to the accurate forecasting of

the movement of all the planetary bodies

The improvement of the telescope led to
the discovery of more and more stars, and
spectroscopy enabled their distance and spectroscopy enabled their distance and constitution to be investigated. Now, astronomers estimate that the universe contains at least 2000 million stars, the nearest being 25,500,000 000 000 m from the earth, this being also about the average distance separating one star from the next Many of the elements found on the earth have been detected in the stars, and it is probable that some stars are

store, and it is probable that some stars are themselves centres of plantary systems. The extent of the universe has caused much philosophical difficulty. Einstein's theory of relativity led to experimental proof that light travels in a curved path, which if prolonged far enough, will return to its starting point, and it is in this sense that the universe is now considered finite but boundless. See Space.

There is some evidence to show that the

There is some evidence to show that the naterial bodies of the universe have been created by a slow process of evolution, stars forming by concentration from nebulae, and planets by the cooling of portions of the stars See The Mysterious Universe and other books by Sir J. H. Jeans (q v )

University Community of teachers Salerno, founded in the 9th century for the study of medicine, was the first European university, the revival of legal studies in the 12th century led to the foundation of Bologna, Padua and others, and the schools of dialectic in Paris developed in the 13th century into the Sorbonne The universities of Central and Northern Europe, including Prague, Heidelberg, Louvain and the first Scottish foundation at St Andrews, were founded in the 14th tion at St Andrews, were founded in the 14th and 15th conturies The earliest English universities were Oxford and Cambridge, in the 12th and 13th centuries, and here colleges wore first established as places of residence for students Trinity College, Dublin, was founded in 1591 In response to modern needs, many other English universities were founded in the 19th and early 20th centuring. 19th and early 20th centuries, London, Manchester and Liverpool being the first

University Settlement

Community of social workers, having a connection with a university The present University Settlement Association over its origin to Canon 8 A Barnett, vicar of White-chapel In 1884, in an article in the Ninetenth Century, he discussed the question of university settlements, and this led to the formation of an association Barnett, Rogers and Monteflore were the movers in the construction of Toynbee Hall, Commercial Street, Stepney, connected with Oxford University Barnett was the first warden of Toynbee Hall, which was the forerunner of the many east end social settlements of to-day

soldier killed in the Great War, buried as representing all who fell in the struggle In ferest fitting an who fold in the struggle Inferent Britain the unknown warrior was buried in Westminster Abbey on Nov 11, 1920 in France beneath the Arc de Triomphe in Paris in the United States in the National Cometery at Arlington and in Italy in the church of Santa Maria degli Angeli, Rome

Unleavened Bread Food enten by in commemoration of the Passover and obedience to the instructions of Moses (Exodus xii 15) The prohibition of leaven has a ritual significance which may be associated with the idea that fermentation involves corruption

Unwritten Law Term used for a principle that is regarded as a law, although it is not included according to one view, that a husband may kill the seducer of his wife without being punished for the offence

Upas Tree Tree found in Java and juice contains a poison formerly used by the natives to poison their darts

Upping ham Market town of Rut from London, on the L.M.S Rly The chief building is the parish church and there is an agricultural trade Pop 2453

Uppingham School, founded in 1584, became a leading public school under the headmaster ship of Edward Thring (1853 87) and has now the parage of building with accompandation

a fine range of buildings with accommodation

for about 500 boys

Upsala City of Sweden, on Lake Malar Its university, founded in 1477, is the oldest in Sweden, containing schools for is the oldest in Sweden, containing sobools for every department of learning, as well as an observatory Upsala Cathedral which is French in style, was begun in 1287 Old Upsala dates back to the 9th century, when its heathen temple, made of gold made it famous During the Middle Ages, Upsala was a kind of ec clesiastical capital, and it was here, in 1593 that the Synod, which proclaimed the final victory of Protestantism in Sweden, was held The city was burned down in 1702 There is a broadcasting station (453 2 M, 0 15 kW) Pop (1932), 39,741

Ur Ancient Surrerian city The biblical "Ur of the Chaldees' (Gen xi 31, xv 7), whence Abram get out on his journey into Cansan, is generally identified with it It was situated on the left bank of the Euphrates, about 153 m SE of Babylon The modern name of the mound under which it lay is Mugheir Excavations were begun in the 19th century and after the Great War continuous work was carried on Since 1922 a joint expedition of the British Museum and the University of Pennsylvania has excavated the mound with remarkable results. The creat

University of Pennsylvania has excavated the mound with remarkable results The great temple of Nannar, the moon god (c 2300 B c) with its ciggural or stage tower, was unearthed the discovery of other temples and some private houses followed, and then some royal graves (c. 3200 BC) in which were many objects of gold silver and semi precious stones of finest workmanship in 1929 30 the walls of the city, with a circuit of two and a half miles, were traced

Ural Range of mountains running from the Arctic to the Caspian Sea forming a boundary between Europe and Asia The Ural range is important chiefly for the timber from its densely wooded slopes its salt mines

and deposits of gold platinum, copper iron and coal These deposits were originally worked by seris

The River Ural rises in the Southern Ural

Mis, and flowing past Uralsk, empties itself into the Caspian Sea at Tschapajew

Uralite Type of rock Uralite is formed by the changing of rock masses, and in the process of uralitisation secondary hornblende replaces augite Uralitisation occurs in a rock known as diabase, uralities tiself may be said to be an alteration product of diallage, a calcium magnesium silicate

Uranium Metallic element, symbol U, atomic number 92, atomic weight 238 14 Uranium was first obtained weight 238 14 Uranium was first obtained from pitchblende by Klaproth in 1789 pitchblende still furnishes most of the world's uranium being U,O, and remarkable in that it contains helium Uranium is a white, malleable metal which tami-hes slowly in air it burns to U O, and decomposes water It forms two series of compounds uranous and uranyl It is chemically related to tungsten and chromium

God of Greek legend He was the son or husband of Ge, the Uranus Earth and was the first King of the Gods was the father of Kronos and the other Titans. the Cyclops Oceanus Hyperion and the monsters Briareus and Gyges Legend tells the Cyclops how, hating his children, he imprisoned them in Tartarus Led by Kronos they rebelled against him and conquered him He was torn to pieces the giants sprang from his blood, and Aphrodite from the foam of the sea into which his mutilated limbs were thrown Uranus One of the planets, discovered by William Herschel on March 13,

1781, it was first called Georgium Sidus, in honour of King George III Lxcept Neptune, it is the farthest planet from the sun, and the time required for a revolution in its orbit is time required for a revolution in its orbit is 84 years. The diameter is four times that of the earth, and the density slightly greater than that of water. It has four satellites, Titania, Oberon, Ariel and Umbriel

Urban Name of eight popes 8 Urban was Bishop of Rome from 222 to Urban II (1088 1099) had to contend 230 Urban 11 (1088 1099) had to contend with the antipope Gilbert of Ravenna, and promoted the First Crusade Urban III. (1185 1187) also supported the crusaders After Urban IV (1261 1264) the son of a shoemaker, and Urban V (1362 1370), Urban VI (1378 1389) had to contend with fiorce opposition from the French popos Urban VII. opposition from the French popos Urban VII only occupied the papal chair for a short time in 1590 Urban VIII (Barberini) was ready to wage war on behalf of the papacy, and on his equipping the Castel Sant' Angelo with bronze from the Pantheon, he was satirised as a Vandal thus—Quod non feeerunt barbari, feerunt Barberini, 1e, "What the barbarians did not do, Barberini has done."

Urban District In England and up for purposes of local government in 1894 Each urban district has a council, elected by the people for three years and presided over by a chairman The council is responsible for the care of the streets and for sanitary matters If the district has a population of over 20,000 it is also responsible for elementary education The urban districts are represented on the county councils

Urbino Town of Italy It contains a magnificent arcaded courtyard, a cathedral

and university, also a monument to Raphael, the inversity, also a monument to Raphaen, it is was born at Urbino. It is the ancient flown of Urvinum and was formerly one of the thief centres of art and literature in Italy fluring the 16th century majolica pottery. was extensively produced at Urbino

Ure River of Yorkshire Rising in the Pennine Hills, it flows east and then south-east During its course of about 70 m it passes Askrigg and Ripon, near which it joins the Swale to form with it the River Ouse

Urga City of Mongolia (known as Hurae) residence of the lama known as the "Living Buddha" Urga can be roughly divided into three sections the Kuren where the lama resides the Mongol quarter and the Chinese settlement The Chinese trade extensively with the Mongols and the Russians in cattle, comple horses sheen and milk camels, horses sheep and milk

Urial (Orrial or Oriel) Ancient province of Ircland, comprising the present counties of Armagh, Louth Monaghan and Fermanagh This province was founded in the early 4th century by the three Collas, who drove out the Ulidians from the province Numerous cairns and tumuli remain to mark this early

province

Urine Fluid secretion containing waste material abstracted from the blood as it passes through the capillaries in the tissues of the lidneys. In a healthy state urea, urle acid, hippuric acid and sodium chloride are present but sugar and albumin are absent. The colour, derived from bile pigments is normally vellon but may vary considerably. Excess of urle acid tends to the formation of gravel, while the presence of sugar or albumin is indicative of certain diseases

Urmston Urban district of Lancashire It is 5 m from the Central Station, Manchester, and 194 m from London, by the LMS Rly Its industries are mainly connected with cotton Pop (1931) 9284

Urquhart Sir Thomas Scottish author of an old Scottish family An ardent Rovalist, he was knighted by Charles I in 1641 at Whitchall, and was captured by the Cromwellian army at Worcester, but released after a short term of imprisonment His writings the but appears a trigonometrical treation of n sport term of imprisonment. His writings include epigrams, a trigonometrical treatise, a translation of Rabelais (1653) and a plaidoyer in favour of a universal language. He died in

Ursula Roman Catholic saint commemorated on Oct 21 Most stories Most stories about S Ursula are ill-founded According to one legend, she and a body of nuns were slaughtered by the Huns in the 3rd century, when defending their virginity Other stories say that she led a party of 11,000 virgins from Britain to avoid Maximian's persecution

Ursulines Religious order It was at Breseia in Italy, for the education of girls and the care of the poor, in 1535 In the 17th century the order was supported by S François de Sales The nuns numbered some 20,000 in the 18th century but have since dwindled Their patron saint is S Ursula

Uruguay Republic of South America It is situated south of Brazil, fronting the Atlantic, and is divided from Argentina on its western border by the River Uruguay and the Plata estuary Like the Argentine Pampa, the country consists, for the

most part, of a grassy plain with few trees save along the river banks. It is well watered The Uruguay River is 1000 m long, and for 100 m of its length is from 6 to 9 m wide The climate is well suited to Europeans, and a large proportion of the population are immigrants from Spain and Italy Spanish is the principal language used The country affords excellent pasture ground, and the chief industries are those connected with meat, wool and hides Ment extracts are manufactured and large scale and them are correctly large. on a large scale, and there are several large refrigerating stations Uruguav is rich in minerals which include gold, silver, copper and lead The capital is Montevideo Paysandu has important abattoirs

Originally forming part of a Spanish viceroyalty, Uruguav became a province of Brazil, and in 1825 established itself as an independent republic. The government is vested in a senate and elected chamber of representatives. The president who is aided by an administrative counsel is elected for four years. The area is 72,153 sq m. Pop. (1932) 1,941,398

Uses in Law In olden times, a man an estate by will the use was invented to avoid the laws against mortmain by making over the estate to a friend on the understanding that the original owner should still profit from it This was found valuable for defeating creditors In 1536 was passed the Statute of Uses, which was not successful in its attempt to counter these methods. This province is now governed by the law of trusts

Island of Germany Usedom Pomerania, off the Baltic coast The surface is flat, being covered mainly by moor and marsh Fishing and agriculture are the industries of the island, which contains some popular watering places

Ushant (Fr Oucssant) Island off the acres, it is some 15 m from Finistère, with which it forms a canton It consists mainly of granite rock and its rugged coasts are made dangerous by fogs and frequent gales Cereals

and potatoes are grown and sheep bred
Fishing is also carried on
In 1388 the island was rayaged by the
British On "the Glorious First of June," 1791,
Admiral Lord Howe was victorious over the
French fleet, and in 1778 the English and
French fought an indecisive naval action
of Victoria.

off Ushant

Ushaw Village of Durham It is 4 m from Durham, and has a college for training men for the Roman Catholic priesthood It was founded in 1804 for the students who had been obliged to leave Donai and is dedicated to S Cuthbert

Usk River of Wales, Rising on the border of Brecknockshire and Carmarthenshire, it flows east and then in a southerly direction to the Bristol Channel It is navigable to Newport and is about 70 m in length

Usk Market town of Monmouthshire On the River Usk, it is 11 m from Monmouth There is an old church restored, and also the ruins of a castle, once a royal residence The place is visited for the fishing

Uskub (or Skoplje) Ancient Turkish town, now in Yugoslavia It lies on the Vardar, and is the Junction of the line from Belgrade and Monastir to Salonica It occupies a strategic position, and possesses

1256 VALVE

in 364 he succeeded him He was very intolerant in religious matters, but he made wise and useful laws He divided the empire into east

and west taking the west himself
Valentinian II (372 392) was the second son
of Valentinian I Three years after he began
to rule he was murdered by Arbogastes,
commander in chief of his army, and his

ex tutor

Valentinian III (419 455), the son of Constantius III, was Emperor of the West, being thus created by Theodosius II, Emperor of the East, in 425 He was weak and vicious, and was overruled, first by his mother, Placidia and then by the eunuch, Héraclius By his maltreatment of Bonifacius, he lost Africa to the Empire In 455 he was killed by Maximus

Valerian Perennial herbaceous plant (Valeriana officinalis) of the order Valerianaceae The leaves are narrow and the broad clusters of tiny pink flowers are borne on stems several feet high The root is used medicinally for nervous affections Another variety, the small marsh valerian (V drora), has minute pink flowers and is found chiefly in boggy places

Valerian Publius Licinius Roman Emperor (193 260) He was elected by the legions in Rhactia in 253, after Galba had been murdered He had a very troubled reign, being threatened on every border in 260 he marched against the Persians at Edessa under their king, Sapor, was defeated and taken prisoner, and tortured to death.

Valetta The capital of Malta The main of rock, which projects into the middle of a bay, dividing it into two harbours The streets and houses are mainly of stone There are many fine public buildings such as the governor's palace, the opera house museum, and the old lodges of the Knights of St John, now used for clubs and offices The Roman Catholic Cathedral of St. Giovanni dating from 1576, contains some fine paintings and tapestries Since the British occupation Valetta has been an important naval and military centre General want and discontent, consequent upon the Great War, led to serious riots in June, 1919 Pop 25,000

Valhalla In Norse legend the great hall of Odin and the dwelling place of the souls of warriors slain in battle. The hall contains 540 great gates, through which they issue daily to engage in battle, returning at nightfall to feast with Odin and the gods

Valkyrie In Scandinavian mythology, divine maidens who rode through the air, sword in hand, upon swift horses to do Odin's bidding. They presided over battlefields to determine the course of strife or to select the bravest fighters for Valhalla. Here they ministered for them at feasts serving them with ale or mead in skulls Similarly named creatures (vaelcyryean) were mentioned in early England, but were identified with witches

Valladolid City and province of Spain, and was an ancient stronghold of the Moors, but it has been greatly modernised, possessing fine streets and buildings which set off its cathedral and university Cervantes lived here and Columbus died here Linen silk, woollen goods pottery, leather and ironware are among the manufactures. Pop (1931) 89.342

Valladolid is also the name of a town of Mexico in Yucatan, founded in 1544, soon after the conquest

Valleyfield City and port of Quebec. It stands on the south shore of the St Lawrence, 43 m from Montreal, and is served by canal and rallway Here are cotton mills The chief building is the Roman Catholic cathedral which was destroyed by fire in 1933 Pop 9215

Vallombrosa Summer resort of Tusand in surrounding villages are ancient monasteries, one of which, at La Verna, was founded by St Francis in 1215

The Vallombrosians are an order of monks founded in 1038 by S John Gualbert at Vallombrosa, some 60 monks of this order still exist

Valmy Village in the department of the Marne France At Valmy, in Sept, 1792, the Prusslans, who were advancing to Paris to restore the dethroned Louis XVI, were heavily defeated

Valois French family, formerly a royal house of France The name is that of a small town near Valenciennes The Duchy of Valois formed part of the lands of the dukes of Orleans up to the Revolution Members of the house of Valois were kings of France from 1323 to 1589 Marguerite de Valois, daughter of Henry II and Catherine de' Medici, married Henry of Navarre, and was one of the best memoir writers of the 16th century Henri de Valois (1603 76) is famous as a translator of Latin and Greek classics

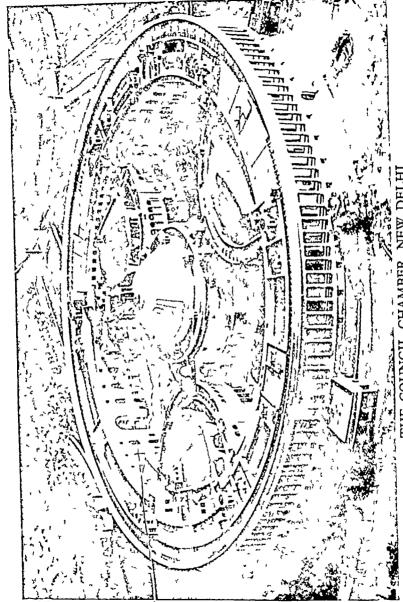
Valparaiso Province and city of Chile The city, which possesses perhaps the most important harbour on the Pacific Coast of S America, is a port of call for many lines of steamers plying between the United States and Europe Valparaiso ("Paradise Valley) is most inappropriately named, its streets being narrow and dirty It has had an eventful history having been, at various times, captured by the English under Drake and Hawkins and sacked by the Dutch and Spanish The city lies under the shadow of great volcanoes, and as late as 1906 a large part of it was destroyed Pop (1932) 189,117

Value Term of political economy It is not quite the same as price, which expresses value only in terms of money Economists who use the word a good deal, distinguish between value in use and value in exchange Such things as water, air, comfort and friendship have a high value in use, but no value in exchange

In music value is the relative length of a tone signified by a note, in painting it is the relation of one part of a picture to the others with reference to light and shade, but without reference to colour Philosophers also use the word when referring to the relation of one

desire to another

Valve Contrivance devised for the regula tion of the flow of a fluid through pipes pumps, etc There are many types of valves some automatic in action, others regulated by hand or mechanically Of the automatic type, a simple form is the flap or clack valve used in suction pumps, which consists of a metal plate with leather hinge A stop valve, operated by hand, is raised by a screw spindle with a handle and passes through a stuffing box to obviate leakage The slide valve used in steam engines is an example



NSE

of the mechanically worked type THERMOVICS

Vampire Imaginary monster The besuching ghosts, is a very ancient one, and appears to have emanated from Eastern Europe A vampire is alleged to be the soul of a dead man, which leaves the body by night the form of a but his der sudden to great the soul of the form of a but his der sudden to great the soul of the form of a but his der sudden to great the soul of the form of a but his der sudden to great the soul of the form of a but his der sudden to great the soul of th in the form of a bat, bird or spider to such the blood of the living, who slowly decline and die The corpse of the vampire, however, remains fresh and life-like The activities of vampires are supposed to be stopped by driving a stake through the corpse Wizards, witches and suicides become vampires after death

Vampire Bat Species of bat, of which two inhabiting S and Central America were discovered by Darwin It bites horses upon the withers, rendering them unfit for the saddle The commoner type, Desmodus rufus, is some 3 in in length, reddish-brown, with sharp teeth, and of for-

Van Town, lake and province of Asla Minor The town, which is populated by Moslems and Armenians, lies about a mile from the lake It is of ancient origin, dating from about 900 B c and contains numerous cunel-

torm inscriptions

Lake Van is 5000 feet above sea level, and contains man islands on which churches and monasteries are situated. The water is undrinkable, containing salts which are evapor-

ated in pans

Vanadium A rare earth, symbol V, weight 51 2 Discovered by Berzelius in 1831, the metal, which is of a light colour, belongs to the phosphorous group and has five oxides, V,O, V,O, V,O, V,O, V,O, and V,O, to the last of a high it burns in oxygen 1t dissolves in nitrio acid Vanadium in small quantities improves the resistance of steel, and is used in the manufacture of motor car engines. in the manufacture of motor car engines

Vanbrugh Irene English actress The younger daughter of the late Prebendary Barnes of Exetor, she was born in 1872 She started her theatrical career at Margato, as Phoebe in As You Lale It She is a leading comedy actress, combining fine technique with great natural charm. Amongst technique with great natural charm Amongst her numerous parts have been Lady Rosamund in The Liars, Sophy Fullgarney in The Gay Lord Quex, Lady Mary Lazenby in The Admirable Crichton, and Belinda (1918) She toured the southern colonies in 1923-25, and again in 1927-29 She played in The Swan (1930) and as the Queen in Hamlet (1931)

Vanbrugh Sir John. English architect and dramatist He was born in London in Jan, 1664, and educated in France He became a leading figure in society and as an architect was responsible for the finishing of Greenwich Hospital (1695), Castle Howard in Yorkshire (1702), and Blenheim Palace (1705) As a dramatist, he collaborated in management with Congreve and wrote society plays, notably The Relapse, The Provok'd Wife (1697), and The Confederacy (1705) He died March 20, 1726

Vancouver City of British Columbia shore of Burrard Inlet There is a legend that a Chinese settlement existed near the present site of Vancouver in A p 499, but it was not until the Canadian Pacific Rallway completed its transcontinental line in 1886 that there was any real growth, and in less than 50 years

See also it has grown to be the largest city in British Columbia Splendidly laid out, with many The be-large parks, it possesses buildings of the most modern type, and the CP Rlv has made it an important port for trading with Japan, China, New Zealand and Australia It has a broadcasting station, (49 43 M) Pop (1931) 245,307

Vancouver Island of Canada Off the coast of British Columbia, it was discovered in 1592 by Juan de Fuca and visited later by Capt Vancouver and and visited later by Capt Vancouver and named after himself. It is 275 m long and has an area of 20,000 sq m. In 1849 it was proclaimed a British colony. The mainland, in these days, was generally known as New Caledonia In 1858 the colony of British Columbia was created, and in 1866 the two colonies were united under that name in 1871 it became a province of the Dominion of Canada Victoria, the capital of British Columbia, and Esquimalt, a naval station, are both situated on the island, most of which is wooded There are golf links and facilities for camping and every kind of sport

Vandals Tribe which first appeared in eastern Germany In a D 400 they began to move westwards, coming into contact with the Goths and Franks Under contact with the Goths and Franks Under Gunderic they crossed the Pyrenees, settling in Galicia and Andalusia, in 428, 80,000 Vandals under Genseric crossed to N. Africa where they slowly ousted the Romans They formed bands of pirates and in 455 captured Rome by surprise, carrying off valuable treasures Their cruelty to the Christians gave rise to the word Vandalism Following their defeat by Belisarius, the envoy of Justinian, in 533 near Carthage, they slowly disappear from history

Vanderbilt American family The founder, Cornelius, was born on Staten Island, NY, May 27, 1794 At sixteen he ran a ferry between the island and New York City, this gradually developed into a coastal trade so extensive as to earn for him the nickname "Commodore" Abandoning shipping for railways, then being rapidly built, he acculred enormous and commanding shipping for raiways, then being rapidity built, he acquired enormous and commanding interests. He died Jan 4, 1877 His eldest son, William Henry, born May 8, 1821, acquired further extensive railway control and died further extensive railway control railways. His eldest son, also W H Vanderbilt (1843–1899) followed in the family traditions

Van de Velde Family of Dutch painters Of these, Adrian (1639-72) excelled in pastoral scenes, he also painted religious subjects Jan (1593-1642) left behind him over 400 engravings 1642) left behind him over 400 engravings Willem (1611-93) painted sea battles for the Dutch Government, accompanying the Dutch fleet during their war with the English He and his son Willem (1633-1707) were later engaged by Charles II and James I to paint naval actions Willem Sen died in Greenwich, his epitaph recording that he was "a painter of sea fights to their Majesties" Willem Jun was made court painter, and died in 1707

Vandervelde Emile Belgian statesman 25, 1866, near Brussels In 1886 he joined the Belgian Labour Party, and soon became its leader He entered Parliament in 1894 He was a member of the Cabinet during the World-War, and afterwards, as Minister of Justice effected many humanitarian and scientific reforms in the prison system He was Minister for Foreign Affairs from 1925 to 1927. In 1925

he played an important part in negotiating the 1791 when they attempted to fice from the Locarno Pact. He has written on labour country. It is situated on the Aire, and was questions and on Marxism, and with his wife occupied by the Germans during the Great War. questions and on Marxism, and with his wife published Lc Pays d'Israel (1929)

Van Diemen's Land to Tasmania (qv) by the Dutch explorer, Tasman, who discovered it in 1642 It was renamed in 1853

Sir Anthony Van Dyck Van Dyck painter He was born at Antwerp on the 22nd March, 1599 After studying under Rubens, he visited England in 1620 and painted a portrait of James I From 1623 to 1628 he was in Italy painting portraits and religious subjects Later he executed a series of portraits as engravings which won him fame as an etcher Returning to England in 1632, he secured the patronage of Charles I, was knighted and appointed painter in ordin ary He painted the portraits of all the Royal Family, and many distinguished members of the court Most of these pictures are now at Windsor Castle He married Lady Mary Ruthven in 1639, and died on Dec 9, 1641,

Vane Sir Henry English statesman Born in 1615 and educated at West minster and Magdalen Hall, Oxford, he was early known for his republican and anti-Church sympathies In 1635 he left England and became Governor of Massachusetts He reference of the sympathic of turned two years later and entered Parliament.
During the Civil War he was the civil leader—
"that in the state which Cromwell was in the field." After a quarrel with Cromwell he was imprisoned Returning to public life after the Restoration he was beheaded on Tower Hill for high treason on June 14, 1662. He was a promoter of the Solemn League and Covenant, and author of The Healing Question

Vanilla Flavouring material obtained.

vanilla from the seed pod of the vanilla plant (Vanilla plantfolia) This plant is a native of Central America. It has green flowers and long slender seed pods, and belongs to the natural order of Orchidaceae.

Vaportsation.

Vaporisation Change of matter into the gaseous state It occurs at all temperatures and continues until the vapour reaches the saturation pressure Rise of temperature raises this pressure, until it equals the pressure of the atmosphere when boiling occurs At still higher temperatures the vapour behaves as a gas Vaporisation the vapour behaves as a gas Vaporisation cools the parent liquid and is assisted by a reduction of pressure, as by air in motion, hence the danger of draughts.

Vardar River of Yugoslavia and Greece It rises in the north of the former country and falls into the sea near Salonika. It is about 200 m long There was a good deal of fighting along the Vardar in 1915 and 1918, the French and British here being in conflict with the Bulgarlans In Sept. 1918, the French and Sephinns drove the Bulgary before French and Serbiana drove the Bulgars before them and entered Uskub

Vardon Harry English golfer Born at Grouville, Jersey, Aug 9 1870 he became professional at Ripon when 20 Between 1896 and 1914 he won the British Open Championship six times, the American Championship in 1900, and the German in 1911 Ho is the author of The Complete Golfer and How to Play Golf Vardon Braid and Taylor were known as 'the great triumvirate' of British colf British golf

Varennes Village of France In the department of Meuse Here Louis XVI. and his family were stopped in

Term in biology for the degrees of difference in the V ariation characters often seen between a parent organism and its offspring, and representing deviations from the normal characters of the Some of these variations are continuous, forming a graded series, others are discontinuous as where very unlike forms suddenly appear These cases are termed mutations Some variations are due to environment Many secondary variations are now known to be due to dissimilarities in the functioning of the ductiess glands. The theory of natural selection was based upon the gradual increase in continuous variations, but more recently mutations have been regarded as taking an important part in evolution

Varicose Veins Dilated veins in the leg They may be due to constitutional causes or to prolonged standing and walking tight garters, muscular strain

Treatment -Avoid garters, any pressure on the veins, and much standing or walking, relieve chronic constipation and any liver com plaints, wear a light, porous, elastic bandage during the day In young subjects an operation may be desirable In the case of Haemorrhage from the veins, lay the patient down and raise his leg to a vertical position apply pressure to the bleeding point with a knotted handker-chief until medical aid is obtained

Variolite Basaltic rock. It occurs in the tertiary dykes in Co Down, Ireland, the Point of Sleat in Skye and at Ardnamurchan, Argyllshire It has a glassy matrix containing numerous fan-shaped, sheaf like, or radiate aggregations of felspathic fibres, that assume in some types the form of

large pea like spherules

Varna Bulgarian port. On the Black Sea, it is the third city of the country, ranking after Sofia and Philippopolis. In Varna is the summer palace of the King of Bulgaria. The exports include grain and wine Varna was the headquarters of the Allies in the Crimean War, and was ceded to Bulgaria by the Treaty of Berlin (1878) Pop (1926) 60,563

Varnish Decorative and preserving sub-stance for wood, etc There are two main kinds Spirit varnish, in which various resinous substances are dissolved in spirit, and oil varnish in which oil is the dissolving agent. Shellac, mastic and the like are used for spirit varnishes, while for oil varnishes the more

Varnishes, while for oil varnishes the more usual resins are amber or copal.

Varnish Tree Tree which flourishes in date) The seeds of this tree contain lac, a resinous secretion exaded by certain insects, to which the true corrections.

to which the tree owes its name

Varus Publius Quintilius Roman general He was consul in 13 a c, and afterwards Governor of Syria. In a D & Augustus sent him to command the Roman forces in Germany He was ambushed by Arminius the German chief, and was routed with three legions. legions, whereupon he killed himself

Vascular System Biological term for the system of channels in animals and the higher plants by means of which nutrient materials are supplied to the various parts, and waste matter, in animals, is removed from the tissues In man, blood is circulated through

thick-walled arteries by the heart, returning through thinner-walled yeins, the two sets of channels being connected by a network of fine

capillaries in the tissues

Vatican Pontifical palace, Rome In the world, covering an area of 1151 ft by 767 ft. and containing over 4000 rooms, 8 grand staircases as well as numerous courts, gardens and halls Pope Gregory XI, on his return from Avignon in 1377, chose the place as his residence, and ever since that date it has remained the home of the popes and the centre of the Roman Catholic Church, including centre of the Roman Catholic Church, including within its area all the offices of Papal government

One pope after another has tried to outdo his predecessors in making this palace the largest and most beautiful in the world. The Sistine Chapel where the pope is crowned, erected under ixtus IV, in 1473 is famous for its masterpices by Michelangelo. The grand corridor of the Vatican Library is the longest room in the world, over a fifth of a mile in length The library itself is estimated to contain some 220 000 volumes including many ancient manuscripts Among its treasures is the famous Codex Valicanus, a Greek Bible dating

from the 4th century

The Lateran Treaty between Italy and the Holy See was ratified here in 1929 By it the state of Vatican City came into being The succession of the Papal States was ruled over by the pope until 1870 it has an area of 108 acres in Rome and possesses certain buildings and estates outside its walls Foreign powers are specially represented at the court of the Vatican, and the city has its own railway station, postage stamps coinage, flag, etc It has a broadcasting station (50 26 M 10 kW and 19 84 M, 10 kW) Pop (1932) 1025

Vauban Sebastian le Prestre de French soldier and military engineer Born on May 15, 1633, near Avallon, he served in the French army in Spain, under Condé, and in 1658 he was France's chief engineer under Turonne He directed thirty-five successful sieges, erected thirty three forts, and refortified three hundred After the Peace of Ryswick in 1697, he studied politics, and in 1707 published his Dime Royal, a project for equality of taxation His scheme was condemned by Louis XIV He died March 13, 1707

Vaudeville Originally a popular song with topical allusions. Todny it describes a play interspersed with dances and songs, usually humorous, which are

and songs, usually humorous, which are introduced incidentally
The Vaudeville Theatre is in the Strand, London, nearly opposite Charling Cross Station

Vaudois Alternative name for Waldenses (q v)

Vaughan Charles John Cleric and schoolmaster He was born in St Martin's Vicarago, Leicester, in 1816, educated at Rugby, under Dr Arnold, and graduated from Trinity College, Cambridge, with high honours in 1838, becoming a Fellow in 1839 After three years as Vicar of St Martin's, Telepater ha was headmaster of Harrow. Leicester, he was headmaster of Harrow, 1844-50, then Vicar of Doncaster From 1869 94 he was Master of the Temple, in 1879 he was made Dean of Llandaff He died Oct. 15,

and in 1646 published his first poems, "with the tenth Satyre of Juvenal Englished" He took a medical degree, and practised at Brecon He published pious meditations, Silex Scintillans in 1650-55, and in 1652 The Mount of Olives, devotions in prose In 1678, Thalia Redurra, the Pasimes and Diversions of a Redurra Nuse, which consisted of elegies, translations, and religious poems, was published He died April 23, 1605

Vaughan Herbert English cardinal Born on April 15, 1832, at Gloucester, and educated at Stonovhurst and Rome, he entered the priesthood in 1854, and became Bishop of Salford in 1872. He was made Archbishop of Westminster in 1892, and became a cardinal a year later He founded St Joseph's College for foreign missions at Mill Hill, and was the owner of the Catholic papers, the Tablet and the Dublin Review He

Vaughan-Williams Ralph. composer Born Oct 12, 1872, he was educated at Charterhouse and Trinity College, Cambridge, at Charterhouse and Triniti College, Cambridge, taking his Mus Bac in 1894, and his Mus Doc. in 1901 His works include A London Symphony, A Sca Symphony, as well as an opera, Hugh the Drover (1924), notable songs, hymns and other church music A new piano concerto was produced in 1933 He was a prime mover in the Leith Hill Musical Festival

Vault Primarily an arched roof It is much used in architecture Groined vaulting is found in Norman buildings and ribbed vaulting is a feature of Gothic architecture. The word came to be used for an under-

ture The word came to be used for an underground chamber, owing to its arched roof, and so for the places where wine is stored and the chambers in which dead bodies are buried

A vault also means a leap, and for this purpose a device called the vaulting horse is

seen in gymnasiums

Vauxhall District of London It is on the river in the borough of Lambeth and is a busy industrial district, on the S Rly Vauxhall Park is an open space and a bridge crosses the Thames here Vauxhall Gardens was a popular pleasure resort from about 1670 until it was closed in 1859 The name is a variant of Faull or Faul Faulkes Hall, or Fulkes Hall

Vedas Ancient writings of the early Hindus The word veda means knowledge, and the ancient Vedas were supposed to be due to divine revelation The Vedas, which comprise precepts, hymns and poems, have been called the "Hindu Iliad"

Veddas Primitive people of Ceylon, they were the true aborigmes They are now confined to the south-eastern part of the island. Practically dwarfs, they are a shy, harmless folk, dwelling in caves They are harmless folk, dwelling in caves. They are monogamous, a trait very rare in such tribes. Their worship consists of rude dances to scare away demons

Wegetable General term for plants, and man or beast. A further distinction can be made between vegetables and fruits Herbs are a type of vegetable. These are mainly a dwarf perennial plant, such as parsley, mint, marjoram, basil, rue, hyssop and thyme. Other vegetables can be divided into Tap Roots (carrots, turnips, parsnips). Tubers (potatoes, carrots, turnips, parsnips). Rulbs (carions). Buds. Vaughan Henry British poet He was Jerusulem artichokes), Bulbs (onions), Buds (lettree, cabbage, broccoli), Leaf Stalks (celery, otc.) Gourds, 1c., marrows and

but, containing seeds, are properly fruits

Vegetable Marrow The commonest of the gourds Marrows demand a warm situation and rich soil The fruit is of oblong-elliptical shape, of some 9 in long, though some varieties are some 18 in in length When young, they are pale green, but become light-yellow on

Vegetarian1sm Term used for ab meat The word came into use about 1847, and is applied to the practice of living on foods from which fish, flesh and fowl are excluded Some sects even deny themselves all animal products, such as milk and eggs, and confine their food to nuts, fruits and cereals The commonest grounds adduced are those of health (in so far as diseases of animals are communicated to consumers of their flesh), economy, and kindness to animals There are vegetarian societies and restaurants

ein Blood vessel which returns impure blood from the capillaries towards the heart, motion of the blood being secured by the pressure of moving muscles and the force from the arterial system The venous system may be divided into three classes (a) general may be divided into three classes (a) general venous system including facial, jugular, abdo minal veins and veins of the thorax (b) pul monary veins which emerge from the lungs, bringing back oxygenated blood to heart (c) hepatic portal system which drains blood from the stomach and intestines

Velasquez Diego de Silva y Spanish painter He was born Junc painter He was born Junc 1599, in Seville, and studied under Herrern and Pacheco His earliest success was the "Water Seller" Philip IV made him his private painter, and he painted many portraits and studies of court life He visited Italy twice Examples of his more term (Christic and Studies of Services and S

Examples of his work are 'Christ in the House of Martha," in the National Gallery, and the "Boar Hunt," and portraits of Philip IV His pictures are admirable in colour and relief, and he is the most powerful and original Spanish painter He died Aug 6, 1660

Vellum of a newly-born calf or kid vellum was formerly the recognised surface for writing and was also used in such articles as fans. To day it is employed in book binding and percussion instruments. As a medium for writing it has been entirely replaced by

Velvet Silk fabric It is woven with a short, thick pile on one side only In mediaeval times Genoa was the source of the finest velvet with some other Italian cities as the next producers In modern times much of the trade has passed to Lyons Velveteen although very similar in appearance is a cotton fabric, or at best a mixture of silk and cotton

Vendée Maritime department of West Principal towns are La Roche sur Von and Sables d'Olonne while Politiers and Maillezais are of historical interest Wars of the Vendée were counter revolutionary risings of 1793 in France Discontented peasants joined by some of the emigres succeeded for a while in withstanding the republicans, but they were annihilated at Le Mans (Dec , 1793)

Vendetta Feud between private in dividuals It refers to the practice of the relatives of a murdered man

pumpkins, are popularly known as vegetables, taking vengeance on those who killed him the feud being kept up perhaps for generations Something of the kind prevailed among the clans in the Highlands of Scotland, and more recently in Italy, especially in Corsica.

Vendôme Town of N Central France, town contains many fine old churches and was formerly the Gallic Vendocium. The Abbey of the Prinity was one of the most important early Christian Churches, and claims to possess a tear shed by Christ at Lazarus's tomb Paper and gloves are manufactured at Vendome Louis Joseph, Duc de Vendrôme, was one of the greatest generals of Louis XIV

Venereal Diseases ing from infection generally contracted during sexual intercourse including generates, local ulcers and syphilis (q v) In the two former the and syphilis (qv) In the two former the attack is localised in the parts affected, in syphilis the whole system is involved. Im mediate medical attention is necessary Treatment of syphilis by areno benzol compounds has been developed with success in recent years The prevention of and treatment for these diseases is receiving the attention of authorities in many countries by the establishment of centres for treatment, provision of properly tested remedies, and by educational means.

Venezuela Republic of S America.
Venezuela are bounded N and E by the
Carribean Sea and the Atlantic Ocean, and on
the S and W by Colombia and Brazil More than half of the country, south of the Orinoco, consists of tropical forest. The rest is made up of immense grassy plains, known as llanos, while in the more northerly regions are the Andes and the Orinoco area. The valleys of the montain district comprise some of the most fruitful and most densely populated parts of the republic The climate varies The lowlands are very hot the hill country is temperate, and in the Andine regions the cold is severe. The Carribean coastland is cooled by the trade winds Coffee, cocoa sugarcane, maize and cotton are grown The plains produce good pasturage Forest products include rubber, balata, and vanilla Among the minerals balata, and vanilla Among the minerals found are petroleum, asphalt, gold and copper There are some pearl fisheries The capital is Caracas other towns including Maracabo and Valencia. Spanish is the language used The population is a medley of European Indian, and negro blood A Spanish possession from 1550, Venezuela revolted in 1810 and finally secured her independence in 1830 The area is 393,976 sq m. Pop (1930) 3,216,000

Venice Scaport of Italy, capital of the province of the same name It is situated on the Adriatic Sca, and, being built on some 80 islets of the lagoon, is raised mostly on piles, while canals are the main thorough

fares

The ancient republic of Venice was a mari time power of great importance until the capture of Constantinople by the Turks in 1453, and the discovery of the Cape route to the Indies which diverted trade from the Mediterranean Its independence came to an end in 1797, when Napoleon gave the city to Austria In 1866, after the defeat of Austria by Prussia, Venice became part of United Italy The city, which is divided by the Grand Canal has many famous buildings, including the Palace of the Doges, the cathedral of St. Mark, the Bridge of Sighs, numerous Gothic

and Renaissance churches, guildhalls and to the theory that she was especially the goddess campanili Byzantine architecture is a feature of human cultivation. Her identity was of the city. Other notable buildings are the Arsenal, and the libraries including that of Aphrodite, under which form she assumed San Marco. To the S E is the Lido, a famous patronage of human love. of the city Other notable buildings are the Arsenal, and the libraries including that of San Marco To the SE is the Lido, a famous watering place The modern harbour is large and well equipped Industries include the manufacture of glass, for which Venice is famous, tapestry, brocades, laces, etc. Pop. (1931) 256,144

Venison 17esh of the deer In olden days and there was a deer park round most great houses. It is eaten to-day, but to a much

smaller extent

Venizelos Eleutheries Greek states-23, 1864, near Canea in Crote and educated at Canea, Syra and the University of Athens He canea, Syra and the University of Athens He practised as a barrister in Crete Entering polities, he became a deputy in the Cretan Assembly in 1888 and took part in the Cretan rising in 1896 becoming president of the Assembly in 1897, and Minister for Loreign Affairs He led another insurrectionary movement in 1994. ment in 1904 In 1909 he went to Athens, and became Prime Minister of Greece in 1910 At the outbreak of the Great War his sympathics contrary to those of his severeign, were with the Allies and he resigned in 1915 After the dethronement of King George in 1917, he was again Prime Minister until 1920 He held the office again in 1921, and almost uninterruptedly from 1928 to 1932

Vennachar Lock in Perthshire It 4 m long The river Teith flows through it

Ventilation The means by which a free circulation of air is maintained in houses or other buildings to secure proper healthy conditions. This is secured in houses usually by an adequate room space open windows, and the draught from space open windows, and the trangite from fires, etc., the art of ventilation being to ensure free circulation of air and equable temperature without draughts—In factories, mines, crowded bulls, etc, where poisonous fumes are present or the oxygen content may become low, systems of ventilation specially studied and built are required Ventilation is important also for the preservation of perishable goods and other materials

Ventnor Pleasure resort and urban dis 12 m from Rude, on the S Rly Near the town are St Bonlface Down, Bonchurch and other beauty spots Pop (1931) 5112

Ventriloquism The art of making appear to come from a distance, and not from the speaker's own mouth The name indicated that this gift was thought to be due to some use of the stomach while breathing Actually, it results when the mouth is but slightly opened, and only the tip of the tongue moved Ventriloquism is an ancient art, and it has been suggested that various phenomena. such been suggested that various phenomena, such as oracles and Egyptian speaking statues, owed their explanation to the mastery of this practise by priests

Venus Goddess of Roman mythology She was regarded as a representation of beauty and growth in nature, particularly, the Romans considered, as applied to gardens. Her two temples in Rome had the same dedication day, which coincided with the Vinalia Rustica, and gives added significance. It is discharged and another jury sworn in for a new trial. In Scotland a jury can return an intermediate verdict, one of non proven to garden. A green deposit formed on copper by exposure to air unlike iron rust, it will protect the metal and prevent further corrosion. This deposit is a

Planet of the solar system having Venus its orbit between the earth and Moreury It has nearly the same diameter as the earth (7700 miles), its year consists of 224 7 days, and its distance from the sun is 67,200,000 m Venus is the most brilliant of the planets and exhibits phases like those of the moon, showing, when at its brightest, a brilliant crescent form. Its surface is obscured by dense clouds, but probably the atmosphere is similar to our own. Transits of Venus across the sun are important as a means of measuring the solar parallax, though more efficient means of achieving this object are now available

Venus's Looking Glass (Specularia speculum) Annual berbaccous plant of the order Campanulaccae 1t is about 12 in in height with vivid purple flowers and narrow lanceolate leaves, and is easily grown from seed planted in a light sunny position

Vera Cruz City and scaport on the from 1520, following the advent of Cortes The port suffered so severely from the depreda-tions of pirates, that the fort of San Juan de Ulna was constructed on one of the reefs in the bay Coffee, tobacco, sugar rubber minerals are exported Pop (1930) 70,000

Verbena Genus of shrubs, mostly native to America It ranges in colour from white, rose, carmine to violet and purple, and occurs in clustors of long spiky flowers It was formerly used in the composition of charms and love-philtres. One variety is known as lower grees and yields a former to it. known as lemon grass and yields a fragrant oil

Verderer (Lat unids, green) Name used for one who looked after one of the king's forests. To day verderers are still appointed in the New Forest and the Forest of Dean, where they are the representatives of the commoners of the forest.

tatives of the commoners of the forest Verdi Giuseppe Italian composer Born at Roncole, Oct 10, 1813, after studying at Milan, he produced his first opera Oberlo, in 1839 His first success was scored with Nabucodonoser (1842) and his most famous contributions to the Italian school of opera are Ernani (1844), Rigoletto (1851), Il Trovatore (1852), and La Trainala (1853) Aida, produced in 1871, is of a different type, and shows the influence of Wagner His work is highly dramatic and theatrical, and owes its popularity to this and to its notable rhythm, which makes it particularly effective in perwhich makes it particularly effective in performance He also wrote the great Manzoni Requiem in memory of his author friend, Alessandro Manzoni He died at Milan on Tan 27, 1901

Verdict Finding of a jury at a trial It is pronounced by the foreman after the jury has returned to court from considering the matter In English law a jury must return a unanimous verdict of either guilty or not guilty, if unable to do this it is discharged and another jury sworn in for a new trial In Scotland a jury can return an interventiate verdict one of new preserver.

basic copper carbonate Verdigris is used as a articles Persons infested with vermin can be paint in dyeing and calico printing It is used taken to a public station and cleansed if a in an ointment for warts It is an irritant magistrate's order is obtained. poison, and hence, copper utensils are not frequently used in cooking

Verdun Town of NE France It was the Roman Verodunum. Its bishop ric dates from the 3rd contury, and after being destroyed by the barbarians, the town was rebuilt at the end of the 5th century. After the revolution of 1789 the citizens opened the gates of the city to the Germans It also capitulated to the Germans in 1870 In the Great War Verdun which was the scene of terrific fighting, suffered heavily The town lies upon the Meuse,

and is surrounded by a bastioned rampart, pierced by four gates It possesses a cathedral and its 17th century hôtel-de ville contains a museum Its industries include metal founding, manu facture of sweetmeats, machinery, nails, chairs and linen It lies on a canal, and its canal port has trade in agricultural produce and

timber

Vereeniging Town of the Transvaal 50 m from Johannesburg, and 964 from Cape 50 m from Johannesburg, and 964 from Cape town with which it is connected by railway Near are coal mines Its industries include brick making and flour milling Here a great barrage has been built to provide water for irrigation purposes and for generating electric power Pop (White) 700

Being a border town, with the Transvaal just across the river, Vereeniging was chosen for the Peace Conference between the British and the Boers in 1902 The treaty signed on May 31

Boers in 1902 The treaty signed on May 31 provided for the annexation by Britain of the two republics, the Boers receiving £3,000,000 as compensation for the burning of their farms

Verlaine Paul Paul French poet and de cadent Born at Metz March 31, 1844, he chose French nationality in 1873 He wrote Poemes Salurniens (1865), Les Fêles Galantes (1869) and La Bonne Chanson (1870), and then for twelve years led a life of dissipa-tion, broken by illness In 1881 Sagesse ap-peared, verse showing sweetness and sanity He afterwards wrote Amour (1885) Bonheur (1889) and Parallèlement (1890) He died Jan 8, 1896

Vermeer Jan Dutch painter He was He probably studied under Karel Fabritius a pupil of Rembrandt He was master of the Guild of Painters of Delft in 1662 and 1670 He was forgotten until 1866, when he was "discovered" by Theophile Thore, the French critic, and Vermeer is now considered the most perfect in technique of the Dutch masters Among his works are "Street in Deltt,' 'The Pianist,' The Lace maker' 'The Woman with a Water Jug" He died Dec. 15, 1675

Vermicelli Paste of flour obtained from the harder species of wheat. It is pressed through fine tubes into a thin thread like shape It is used in soups, or like macaroni as a food stuff

Vermin Word used for a noxious animal, or one destructive to crops and game Rats mice, moles foxes, polecats and weasels are vermin In Great Britain, by a law passed in 1919, persons who fail to destroy rats and mice on their land, wherever it is reason ably possible to do so can be prosecuted and fined. The word is also used for lice, fleas and fined The word is also used for lice, fleas and other insects that infest dirty persons and

Vermont State of the United States on the Now England states, is in the N.E of the country and its area is 9564 sq m Montpeller is the capital It is almost wholly an agricultural area, and produces a great quantity of maize, wheat, oats and barley It is also famous for its cattle Another product is sugar, and a good deal of lumber is out. The government of the state is under a legislature of two houses two senators and one representative are sent to Congress Vermont became a state in 1791 Pop (1930) 359,611

Vermouth Liqueur prepared from dis flavoured with wormwood, oranges and other bitter or aromatic ingredients and sweetened with white sugar It is made in France and also in Italy, chefty in Turin The Italian vermouth is slightly more potent than the French variety

Verne Jules French writer Born at Nantes on Feb 8, 1828, he went to study at Paris where his talent manifested itself in librettos and comedies He was inspired on hearing stories from traveller friends, to write the tales of travel for which he is famous Among the best known are Round the World in Eighty Days and Twenty Thousand Leagues under the Sea His novels have been widely translated, and he has done much to oppularise scientific knowledge Owing much to Swift and Defoe, his influence may be traced in the works of Wells and Rider Haggard He died March 24 1905

in the works of Weils and Rudel Habourdied March 24, 1905

Vernet Name of a family of French Claude Joseph Vernet was born at Avignon, Aug 14, 1714, and studied art in Rome where he lived for 20 years Later he worked in Paris for Louis XV and Louis XVI and there he died Dec 3, 1789

His son Antoine Charles Horace Vernet, born Louis XVI and there he died Dec 3, 1100 His son, Antoine Charles Horace Vernet, born in 1758, painted battle scenes for Napoleon, but is best known as a painter of horses He died in Paris Nov 17, 1835 His son, Emil Jean Horace Vernet born in 1789, was also a painter of battle scenes From 1828 34 he was also a painter of the Fronce school of art in Rome director of the French school of art in Rome He died in Paris Jan 17, 1863

Vernier Pierre French scientist Born at Ornans near Besancon in 1580, his most famous invention, the vernier, consists of a small movable scale, running parallel with a fixed scale of a theodolite or barometer and is used for measuring a fractional part of one of the equal divisions on the fixed scale He died in 1637

Verona Capital of the province of Verona, Verona is an extremely taly Verona is an extremely
Its cathedral was consecrated ancient city Its cathedral was consecrated in 1187, while it contains numerous palaces, castles and a Roman amphitheatre It is also rich in paintings and sculptures The Congress of Verona, held on Oct 20 1822 was based on principles laid down by the Treaty of Paris (1815) Here Great Britain by here a consecrated in Spain, broke policy of non intervention in Spain, broke away from the Great Alliance of Russia, Prussia and Austria

Veronal (or diethylbarbituric acid) White Veronal powder, possessing a bitter taste As a drug it is used in treatment of heart, lung and kidney diseases and other nervous diseases associated with sleeplessness. Although a very slow poison, its excessive use

has caused many deaths among sufferers from, insomnia

Veronese Paolo Venetian painter Born in 1528 at Verona after working there and in Mantua, he settled in Venice in 1555, where he made wealth and carned fame He visited Rome in 1563, and that gave greater dignity and grace to his work, which was always rich in colour and noble in design

His best known work is "Marriage Feast at Cana" now in the Louvre, and others are "The Feast of Simon" and "The Triumph of Venice"

reast of Simon" and "The Triumph of Venice"
He died April 19, 1588

Veronica to have been a woman of
Jerusalem who, as Jesus was bearing the Cross
to Golgotha, offered him her handkerchief to
wipe his brow The image of His face became
impressed upon it She may also have been
she whom Christ healed of an issue of blood
(Viatt ix 20)

Veronica Genus of plants, shrubby and phulariaceae The flowers are in all shades of violet, mauve, blue, and white Veronica In the flowers are in all shades of violet, mauve, blue, and white Veronica 793, it was rebuilt in 1077, and in 1877 was longifolia, a popular garden variety is about 1 made the cathedral of the newly-formed 2 ft high and bears spikes of blue flowers blue or white blooms, and another V ruprestris is of dwarf growth, more suitable for the rock is of dwarf growth, more suitable for the rock garden V chamcedrys, the germadder speedwell, is the best known of the 16 British speeds and is often called Bird's eve, or Cat's and genoral systemic diseases.

Verulam City of Hertfordshire, now called St. Albans Offa, King of Mercia, built a Benedictine abbey here in 793, it was rebuilt in 1077, and in 1877 was made the cathedral of the newly-formed diocese. St. Albans was the seene of the opening battle of the Wars of the Roses (1455) and of another in 1461. There is a monument is of dwarf growth, more suitable for the rock popular is a first of the wars of the Roses (1455) and of another in 1461. There is a monument is of dwarf growth, more suitable for the rock popular is a first of the wars of the Roses (1455) and of another in 1461. There is a monument is of dwarf growth, more suitable for the rock popular is a first of the wars of the Roses (1455) and of another in 1461. There is a monument is first of the wars of the Roses (1455) and of another in 1461. There is a monument is first of the wars of the Roses (1455) and of another in 1461. blue or white blooms, and another V ruprestris is of dwarf growth, more suitable for the rock garden V chamcedrys, the germadder speedwell, is the best known of the 16 British species, and is often called Bird's eye, or Cat's eye The tiny flowers are a brilliant blue V agrestis, the field speedwell, has small blue blooms with a white lower petal

Vertocchio artist His real rame was

Verrocchio Andrea del. Florentino Ciono He was born in 1435 and worked under Donatello Though specially distinguished as a sculptor, he was also goldsmith, architect, painter and musician His most famous work Is the bronze equestrian statue of Colleoni at Venice Leonardo da Vinci was his pupil He died in 1488

Versailles French town It is situated to the stand is chiefly famous for its royal palace Erected

chiefly famous for its royal palace Erected by Louis XIII, it was enlarged by Louis XIV The palace is remarkable for its massive proportions and vast extent (on the garden side the façade is 520 vds long)

Here King William of Prussia was proclaimed German Emperor in 1871. Here too, was signed on June 28, 1919, the Treaty of Versailles which fixed the terms of peace after the Great War It contained 15 parts Part I dealt with the Covenant of the League of Nations (q v), II and III with territorial dispositions, Gormany losing Alsace and Lorraine to France, several frontier districts to Belgium, part of Schleswig to Denmark, lower Silesia to Poland, the Memel district to Lithuania, while the banks of the Rhine were demilitarised and the Saar basin was placed under an international commission By Part IV Germany coded all her colonial possessions to the chief Allied Powers, and by Part V her armaments were drastically restricted Part VII, dealing with penalties remained a dealt etter, Parts VIII and IX dealt with Reparations (q v) and finance. Part X with economic restitution, commercial treaties, shipping, etc., Part XIII with ports, waterways and rallways Part XIII provided for the setting up of an international labour organisation Part XIV provided for military occupation of the Rhine zone by the Allies The

other parts dealt with prisoners, war graves, aerial navigation and miscellaneous technical points In Europe Germany lost 27,250 sq m. and about 61 millions in population, as well as most of her iron and minerals, abroad she lost 1,128,000 sq m, with a population of over 13 millions

Vertebrata A branch of the animal kingdom, comprising mam. mals, birds, fishes and reptiles, or those creatures with vertebrae or backbone, actually, such a division is faulty, since many invertebrates possess an unjointed rod, the notochord, which is an embryonic spine Other characteristics are jaws as part of the head, nervous system separated from body cavity and never more than four limbs disposed in pairs

Vertigo Dizziness or a sensation of certain ear and general systemic diseases.

Very Light Firework that throws a illuminate a dark area. It resembles a cartridge and is fired from a pistol. It is named after Samuel W Very who, in 1877, invented a method of firing coloured balls from a pistol to serve as signals. Very lights were much used during the Great War.

Vespasian Roman emperor Born Nov 18, AD 9, he served in Britain under Aulus Plautius and reduced the Isle of Wight He was Consul in 51, governor of Africa in 63, waged war in Judaea in 66 In 69 he was declared emperor and selzed Rome from Vitellius He led a simple life and under his rule literature flourished while under his rule literature flourished, while Agricola took North Wales in 78 He died June 24, 79

Vespers In the Roman Catholic liturgy, the sixth of the seven "hours" which make up the dally office It is generally recited between the hours of 4 and 6 p.m. The office contains five Psalms, a short lesson, versicle and responses, a hymn, the Magnificat and the prayer of the day. The service is derived from the nocturnal vigil of primitive Christian assemblies. It corresponds to the Evensong of the Anglican Church

Vespucci Americo Italian explorer Born at Florence, March 9 Italian explorer Vespucer Born at Florence, March 9, 1451, he became a provision contractor, and provisioned one or two of the voyages of Columbus When fifty years old he organised a voyage to the New World by the same route as Columbus Sailing under the commander Hojeda, he explored the coasts of Vonezuela. His name, Amerigo (America), was given to the two continents through the erroneous belief, fostered by the letters he wrote, that he had reached and discovered the mainland in 1407, the year before Columbus He died Feb 22, 1512

Vesta Roman divinity, identified with the Greek goddess, Hestia She was worshipped as the goddess of the hearth in a

emple erected by Numa between the Capito Ine and Palatine hills Here the goddess was epresented not by a statue, but by the ternal fire kept burning by the Vestal Virgins, for priestesses Their term of office was thirty ears, ten of which were set apart for learning he duties, ten for actual ministration, and ten They were six in or teaching the neophytes They were six in number and carried out their duties under the ontrol of the pontifex, who had authority to unish by death the violation of the vow of hastity, which each took on her appointment

Vestment Ceremonial garment worn by priests, clergymen and others performing religious offices. The use of vest ments in Christian churches dates from an early period, but is not directly connected with the vestments of the Jewish priest The vestments worn by a Roman Catholic priest for Mass are amice, alb, girdle, stole, maniple, chasuble In the Anglican Church the vestments are the cassock, the surplice and the stole

Vestry Room attached to a church, in which vestments are kept Hence it came to mean a meeting of the ratepayers of a parish held in this room for the transaction of parochial business The vestry is respons ible for the management of church property, the election of church wardens, etc. It now exists for ecclesiastical purposes only, having been deprived of other functions by the Local

Government Act of 1894

Vesuvius Volcano east of the Bay of Naples, Italy It stands some 4000 ft above sea level, but its height varies 4000 It above sea level, out its neight varies at one time it was probably much higher than at present, but during a gigantic eruption the upper half of the cone was blown away Its volcanic nature was unsuspected by early settlers around its base, until in 79, a tremendous explosion destroyed Pompeli and Herculaneum (qv) Slight activities have since been frequent until as recently as 1906 An electric railway now plies from Naples to the edge of the crater

Vetch Plant belonging to the genus Vicia, sometimes known as tares Certain vetches, loosely named, belong to other genera, i.e., horse shoe Vetch (Hippocrepis), and milk vetch (Astragalus) The vetches are reddishpurple, annual herbs and form a valuable

forage crop

Veterinary Surgeons Surgeons ising in the treatment of domestic animals To the French belongs the honour of being Surgeons pioneers in veterinary science The first veter inary college was established at Lyons, in 1762 and it was a Frenchman, St. Bel, who founded the London College in 1790 To day the veterinary surgeon has a high professional status, and the growth of the public concern about the health of domestic animals has brought about an increased demand for his services

Both men and women are eligible for the profession of veterinary medicine The Diploma of MR.CVS is the only recognised qualification, and the course of training must to the Royal College of Veterinary Surgeons, viz The Royal Veterinary College, Camden Town, London, and the Veterinary College of Edinburgh, Glasgow, Liverpool and Dublin The course occurred to the College of College of Edinburgh, Glasgow, Liverpool and Dublin The course occurred to the College of College o The course occupies five years, after the passing of a recognised matriculation examination. Veterinary students may also take the univeresty degrees of B Sc and D.Sc in Veterinary

Science at the Universities of London, Edinburgh and Liverpool
While the treatment of farm animals—

horses, cows, pigs and sheep—is mainly carried out by men, a few women have taken up the treatment of the smaller domestic animals There is an unsatisfied demand for highly trained veterinarians for Government services at home and in the colonies, and Government scholarships are available to suitable applicants All particulars can be obtained from the RCVS, 10 Red Lion Square, London, WC1

Veto Act of forbidding or stopping It is chiefly used in connection with legislation In the British Empire the king emperor has in theory the right of vetoing, or refusing to assent to any piece of legislation, but the right has not been exercised since the times of Anne, and is regarded as obsolete The president of the United States possesses a limited right of yeto. The right possessed by the right of veto The right possessed by the House of Lords and other second chambers of refusing to assent to a measure is not, strictly speaking a veto

Vevey Pleasure resort of Switzerland It is on the north shore of Lake Geneva, 11 m from Lausanne, and is a calling place for steamers The buildings include an old tower

Viaduct Elevated way It is usually built on arches to carry a road or railway across a valley An example in London is the Holborn Viaduot There are a number along the railway lines of Great

Viaticum In the Roman Catholic church the eucharist as reserved for the dying The word is also used for a portable altar employed by the priest on these occasions

Viborg Town of Jutland, Denmark Its cathedral dates back to 1130, and its museum possesses relics of the Stone, Bronze and Iron Ages Capital of province of the same name, standing on the Bay or Viborg, Finland It is the seaport of Karelia and its pleasant scenery attracts tourists from Finland and Leningrad. It has a broadcasting station (291 M., 13 2 kW) Pop (1930) 56,295

Vicar The word meaning a delegate or deputy (Lat. vicarus) In the ecclesiastical sense it denotes an incumbent who is the deputy of the rector, the latter being entitled to a share of the emoluments of the incumbency. the incumbency By an Act of 1868 all incumbents who are not rectors are entitled to be called vicars, if they are duly authorised to officiate at weddings, etc

Vicar-General Ecclesiastical official in the Church of England the term denotes the assistant employed by the Archbishop or bishop to help in an ecclesiastical visitation In the Roman Catholic Church the vicar general performs the duties of an archdeacon, especially assisting the bishop in matters of jurisdiction

Vice Tool used for holding a piece of wood laws and a screw which regulates the jaws, one of which is usually immovable. There are various kinds, among them the swivel vice and the parallel vice. A hand vice is made to hold in the hand and a table vice is fastened to a table. A pin vice is a delicate instrument used by watchmakers.

Vice-Chancellor Deputy of a chancellor It is chiefly used at the universities where the vice

chancellor is the acting head, the chancellor Victoria Queen of the United Kingdom being an honorary official At Oxford and Victoria of Great Britain and Ireland and Cambridge the vice-chancellor is the head of a college and he serves for four years newer universities he is appointed for life

Vicenza Town of Venetia, Italy, at the many fine buildings, a town hall or basilica of the Renaissance period, a cathedral dating from the 13th century, and villas of Palladio Trade in wool, leather, linen, gold and silver goods is carried on at Vicenza, while mulberry trees flourish in the vicinity Vicenza was formerly Vicetia, and was laid waste by Attila Mantegna, the painter of "The Crucifixion," was born here Pop (1931) 65,161

Viceroy One who represents the sovereign in one of the countries or districts under his rule. It is applied to the governor general of India and was the usual term for the lord lieutenant of Ireland until the office was abolished in 1922

Vichy Town of central France, on the river Allier Its mineral waters were known to the Romans There are 34 springs at Vichy, 12 of which belong to the State, those in the environs of the town are brought in by aqueducts The waters, which have an alkaline taste, and smell faintly of sulphuretted hydrogen contain a large percentage of sodium carbonate, while some are chalybeate They are used in treatment of gout and diabetes Large quantities of the chalybeate They gout and diabetes water are bettled and experted

Victor The title of three popes and two victor i was bishop of Rome from 190-198, Victor II was bishop of Rome from 190-198, Victor III was proclaimed pope in 1986 against his will, but died in the following year He was a notable classical writer Victor IV was a name taken by two anti-popes The first, Gregorio Conti, was chosen in 1138 as successor to Analetus II, the second, Octavian, the Ghibelline anti-pope, was supported by Frederick Barbarossa in 1159 against Alexander III He died in 1164

Victor Emmanuel I. King of Sar-

Victor Emmanuel I. dinia Born at Turin, July 24, 1759, he was forced to abdicate in favour of his brother Folix in 1821 by a rising of the liberals He died in Jan 10, 1825.

Victor Emmanuel II., King of Sardinia, after wards King of Italy Born at Turin, March 14, 1820, he gained military distinction at an early ago, and after his accession he allied himself with France against Austria With the help of his army and Garibaldi, and by diplomacy with the help of his minister, Cavour, he was the real creator of a united Italy As King of Italy he ruled as a strictly constitutional monarch He died Jan 9, 1878

Emmanuel King of Italy Born at Naples, Nov 11, 1869, the son of Humbert I, he came to the throne July 29, 1900 He married Princess Elena of Montenegro in 1896 A man of culture and artistic taste, he ruled constitutionally and well but has had little prominence since the advent of Fascism in Italy The "March to Rome." Oct, 1922, brought to power the Fascistic corresponding a revolutionary movement against Victor representing a revolutionary movement against the inactivity of post-war Italian statesmen The leader is Signor Benito Mussolini, who has acquired dictatorial power, militarised the state, and was largely responsible for the Abyssinian war

Empress of India She was the only child of Edward, Duke of Kent (fourth son of George III), and was born in Kensington Palace, May 24, 1819 She succeeded William IV, June 20, 1837, and married her cousin, Prince Albert of Save-Coburg-Gotha, in 1810 Her long reign saw more changes—political, social, industrial, scientific—than any other in British history The Empire was considerably enlarged, the greater colonies achieved self-government, successive reform bills extended the franchise, the Corn Laws were repealed, and Free Trade was adopted Education was made compulsory, extraordinary advances were made in all domains of science, railways, the telegraph and telephone came into being, penny postage was inaugurated, and many measures for improvement in working class

conditions were passed Great Britain's interests abroad involved her in several wars In the East she waged war in China and Afghanistan, her rule in India chink and Alghanistan, nor rule in Indian involved her in the Indian Mutiny, two Sikh wars and two Burmese wars In Africa outstanding wars were the Zulu wars, the Boer War and the South African War, In Europe she took part in the Crimean War, and British diplomacy plaved its part in international affairs, especially in the Near East

Among the queen's prime ministers were Melbourne, Peel, Palmerston, Disraeli, Glad-stone and Salisbury Though as a constitutional monarch she followed the policy indicated by them, she made her influence felt in the political sphere, as well as in social and religious affairs She colebrated her Diamond Jubilee in

Victoria 87,884 sq m in the S E of the continent and is divided into 37 counties Mollourne in the continent and is divided into 37 counties Melbourne is the capital and the largest city Other cities are Geelong, Ballarat and Bendigo It is governed by a parliament of two houses, council and assembly Members of the council are persons of standing and substance elected for six years, they number 34 Members of the assembly, 65 in number, are elected for 3 years or a shorter period. There is a cabinet responsible to the legislature The state sends members to a federal parliament which is responsible for some of its affairs. Victoria produces a good deal of wheat, but is more famous for its wool, vast numbers of sheep being kept. A good deal of coal and a little gold are mined. The state has a supreme court of tuesties and a miverity. There is a scheme of justice and a university There is a scheme

of old age pensions
Originally part of New South Wales, Victoria
became a separate colony in 1851 It became
self governing in 1855 and in 1900 joined the commonwealth of Australia Pop 1,805,298

Victoria Capital city of British Columbia Camosun, the site of a former Indian settlement at the southern end of Vancouver Island, was selected in 1843 by the Hudson Bay Company for the erection of a fort to protect its trading, the name being changed to Fort Victoria in honour of the Queen In 1858 the town grew rapidly, owing to the rumoured discovery of gold, but the rush soon ceased, a healthy and steady growth followed, and in 1866 the city was chosen as the capital of the newly formed province of British Columbia It is now one of the most beautiful residential cities on the Pacific coast, with a splendid harbour, fine

Victoria and Albert Royal Order British order It was founded in 1865 and is given to women, but there have been no appointments to it since 1901 Members are divided into four classes and are distinguished by the letters V.A

Victoria Cross Medal bestowed for conspicuous valour in presence of the enemy It was instituted by Queen Victoria in 1856, and consists of a bronze cross in the centre of which is a lion standing on a crown, and a scroll with the words "For Valour" It is suspended by a plain red ribbon and is worn on the left breast. Any member of the British Army, Navy or Air Force can win it, and it carries with it a small pension. It is a very signal honour, sparingly awarded Sometimes the cross is awarded to a ship or a Sometimes the cross is awarded to a ship or a regiment, in which circumstances the persons concerned decide among themselves which member of their company shall wear the decoration for them Thus Captain Alfred Carpenter, R.N., was selected by the crew of the Vindictive and the assaulting party on the Vindictive and the assaulting party on Evebrugge to wear the cross for them after the famous attack on St. George's day, 1918 in 1929 the King when Prince of Wales gave a dinner in the House of Lord's to all V C's, at which 321 assembled

Victoria Falls Falls on the Zambesi River in Rhodesia, 800 m from the sea They were discovered by Livingstone in 1855 The falls consist of a single drop of 256-343 feet into a vertical single drop of 256-345 reet into a vertical chasm at a place where the river is very wide. The water strikes the opposite wall of the chasm, becoming a mass of spray Passing through a narrow channel, the river enters a tortuous 40 mile course at the bottom of a strike in the chasman of the course at the course of the chasman of the course at the bottom of a strike in the course at the chasman of the course of the chasman of t canyon with almost vertical sides 400 feet high

Victorian Order Royal British hood It was established in 1896, and its nood it was established in 1896, and its members are divided into five classes These are Knight Grand Cross (G C V O), Knight Commander (K C V O), Commander (C V O) and Members, in two classes (M V O) Women are eligible and if of the rank of knight are distinguished as dames, D V O being Dame Commander The ribbon is blue with red and white addressing the most the Victoria. white edges and the motto is Victoria

Victoria Nyanza Lake of central Africa It is sur rounded by Kenya and Uganda on the north, and Tanganyika on the south The southern and Tanganyika on the south. The southern ond was discovered in 1856 by Speke who also found the northern outlet in 1861. The depth varies, soundings of over 600 feet having been taken. It is 3726 feet above sea level and the area is about 32,000 sq. m. It is the principal source of the White Nile over the Ripon Falls at the north and at the north end

Victory English warship A wooden Victory English warship A wooden Chatham in 1765 In 1803 she became the flagship of Nelson, and in her he fought the Battle of Trafalgar In 1825 she was paid off, and since then has been in the harbour at Portsmouth as the flagship of the commander in-chief Between 1923 and 1928 the Victory was restored to her original condition, the money being raised by public subscription.

Victory Medal Allied medal bestow-War Any member of the fighting forces who

public and private buildings, and a wonderfully had been on active service during the four mild climate Pop (1931) 38,441 years of war was eligible for it, as well as women of the nursing and auxiliary services The medal is bronze with a rainbow coloured ribbon

> Vicuna (or Vicugna) (Auchenia vicugna)
> Species of llama found in Peru and Chile Related to the camel, it is smaller being about two and a half feet in height, and the limbs are slender and graceful The hair, or wool is soft and fine in texture and is of a pale yellowish brown shading to white under neath The wool is used in the manufacture of a fine cloth which is used for clothing

> Vienna Austrian capital situated on the Danube The inner town, surrounded by the Ringstrasso, a beautiful boulevard on the site of the old fortifications, contains the Gothic cathedral of St Stephen, the Hofburg, formerly the imperial palace in the Baroque style, and the university founded 1365 There are also many modern buildings including the houses of parliament, the town hall, and the Palace of Justice The cultural centre of S E Europe, the city has museums and picture galleries and its beauty is enhanced

> and picture galleries and its beauty is enhanced by wilde parks and gardens.
>
> A leading commercial city, Vienna has an extensive transit trade, and exports luxury goods, chiefly silk and velvet, clothing, gloves, leather goods and jewellery Besides manufacturing optical instruments machinery and chemicals, it has a large film industry An international fair is held yearly
>
> A Bonan garden text granged Vindehous

A Roman garrison town named Vindobona, the city became the capital of the Duchy of Austria in 1137, and the centre of the Hapsburg power in the 14th century It was besieged by the Turks in 1529 and 1683 In the 18th century it was the chief residence of the Emperors, who built the palace of Schönbrunn, and in 1814 the Congress which resettled Europe after the Napoleonic wars was held there After the Great War Vienna became the capital of the Austrian Republic. The success of its municipal housing has aroused much attention It has two broadcasting stations (1237 M., and 517 M., 15 kW) Pop 1,865,000

Vigo Port of NW Spain on the SE shore for 20 m., and the town possesses a deep harbour and is well known for its sardine fisheries, as well as for its flour, paper and saw-mills. Vigo is a port of call for ships plying between Europe and South America. Drake attacked Europe and South America. Drake attacked Vigo in 1585 and 1589 while in 1702 Rooke won a great victory in the bay over a combined French and Spanish fleet Pop (1930) 53,091

Viking (Icelandic, viking, a warrior or rover) Scandinavian adventurer engaged in plundering the coasts of Europe from the 8th to the 10th century

Vilayet Name used in the republic of under the rule of the sultan of Turkey, for a province Iraq for example, is divided into vilayets, each with a capital

Villars Claude Louis Hector soldier and diplomat French Born at Moulins, May 8, 1653, he was responsible for the victories of Friedlinger and Kehl He fought against Marlborough at Malplaquet, and drove Frince Eugene back to Brussels after the victory of Denain (1712) He concluded the peace of Rastadt (1714) as plenipotentiary of France In the war of the Polish Succession (1732 34), he was again remarkable for his

Villein A term in feudal law, denoting one who held lands by "base or servile tenure" Villeins were intermediate in secial status between serfs and freemen, and were attached to the soil. One man in a holding had to work so many days per week for the lord, but in the fourteenth century money payments were often accepted in the place of these services Villeinage died out in England owing to changing economic conditions in the differenth century.

Villeneuve Pierre Charles Jean Baptist Sylvestre de French admiral Born at Valensoles, Dec 31 1763, in the Battle of the Nile he commanded the rear division of the French navy and saved it from disaster After luring Nelson away to the West Indies and back in his pursuit, he was blockaded by him at Cadiz, and in a desperato attempt to vindicate himself, gave battle to Nelson at Trafalgar in 1805, and was defeated He was a prisoner in Fingland until 1806. He stabled himself fatally at Rennes, April 22,

Villeroi François de Neuville French soldier He was born in Paris, April 7, 1644 was a great courtier and was made Marshal in 1693 Thoroughly incompetent, he was defeated in the Netherlands, in Italy—where he was taken prisoner by Prince Eugene—and again at Ramillies Later he was made governor of Lyons, and died in Paris, July 18, 1730

Villers-Cotterets Town of the The Ordnance of the Aisne, near Soissons The Ordnance of Villers-Cotterets (1539) substituted the use of French for Latin in legal procedure, and was the work of the magistrate, Guillaume Povet It had the effect of shortening legal work The town was the birthplace of the elder Dumas There was fighting here during the retreat from Mons in 1914

Villon François French poet Born in in extreme dissoluteness Many legends have survived concerning him His poems, Les testaments, strike a lyrical note rare in those times In them are some delightful ballades and rondeaux. He died about 1463
Vilna poland separating Lithuania from

A large and ancient town, capital of the province, Vilna is rich in historical association and possesses two cathedrals It was formerly inhabited by the Lithuanians and, after being seized by Ruesia and Sweden, was coded to the former in 1795 by the Partition of Poland It was in 1831 and 1803 the seat of unsuccessful Policy in the partition of Poland It was in 1831 and 1803 the seat of unsuccessful the seat of unsuccessful the seat of unsuccessful the seat of the partition of Policy in the seat of Polish insurrections against Russia After the Great War the Lithunians claimed the town, but the Poles, after some fighting, took possession of it. In spite of the efforts of the League of Nations to obtain a sottlement the matter is still a source of friction Vilna is the centre of the export trade of grain and timber It has a broadcasting station (563 M, 16 kW) Pop (1931) 197,049

Vimy Ridge Battlefield of the Great should be planted in a rich loam mixed with between Lens and Arras, Vimy Ridge played an exceptionally important part in the Great War In early 1915 the French successfully opposed the Germans at Vimy in 1916 a Canadian force, by dint of great bravery, took

military genius He died at Turin, June 17, possession of the ridge This possession was 1734 extremely valuable during the stemming of the German onslaught in 1918

Town in northern France, Vincennes in the department of the Seine Its castle was once a royal residence, and later a prison in which Henry of Navarre, Condé and Mirabeau were at various times confined Under Napoleon, the castle was

connect Under Napoleon, the castle was converted into a powder marazine (See Vigny's famous story La Veillée de Vincennes)

A city of Indiana, USA, is called Vincennes
It has an old university and was in 1778 captured by the British who renamed it Fort Sackville Clark recaptured it in 1779

Vincent Saint and martyr He was a Spaniard and was ordained at Huesca In 304 he was put in prison, and at Valencia was tortured to death in 304 by the Roman governor His feast is on Jan 22, in the Roman Catholic Church, but he is not in the English Calendar

Vincent de Paul St. French eccle-born on April 24, 1576, at Pour, France born on April 24, 1576, at Pour, France He was ordained priest in 1600 From 1604 to 1607 he served as a slave in Tunis, having been captured by pirates On regaining his freedom, he returned to Paris and devoted himself to charitable works, appointing "Confrères de Charité" to serve in various French towns In 1632 he founded the Mission of the Sisters of Charity He died on Sept 27, 1660, and was conceived in 1729 Sisters of Charity He die and was canonised in 1739

Vindictive British warship A cruiser of 5700 tons, she was used in the attack on Zeebruge on April 23, 1918, to carry the men who landed on the mole Later, on May 10, she was sunk to block the channel leading into the harbour at Ostend In April, 1920, the vessel was raised and afterwards broken up A new Vindictive, also a light cruiser, but somewhat larger, was built to replace her built to replace her

Vine Climbing plant of the natural order Vine Climbing plant of the natural order vilaceae It has sturdy woody stems, which cling by means of tendrils to a wall or any other support. The large leaves have tooth like edges and the small green flowers are clustered in racemes. The five petals are united above and below, so that the expansion of the stamens throws them off. The berries or grapes, contain hard seeds. or grapes, contain hard seeds

or grapes, contain hard seeds
In colour the grape varies from dark purple
to a very light green, almost white There are
many varieties, varying with the soil and other
conditions of the particular district The chief
areas for growing the vine are the countries
around the Mediterranean Sea, but it is also
grown in Australia and South Africa, as well
as in parts of America In England and other
countries it will grow under glass, although
there are vines growing in the open in sheltered
spots Viticulture is most flourishing in the spots Viticulture is most flourishing in the Rhineland in Germany, in the southern parts of France, in Italy, Spain, Portugal, Hungary,

The vine requires a sunny position and a rich loamy soll dug to a depth of 3 ft. The plants should be cut back each year and well fed with liquid manure. When grown under glass they should be planted in a rich loam mixed with lime rubbish and put in 6 ins apart. The fruit is liable to attack by an aphis called

malted barley, which is fermented It can be dog violet, V canina and V silvesires, and the made from alcoholic liquors and in Europe is wood violet, whose leaves form a rosette round In the United States made from white wine it is made from cider Fancy vinegars are made by adding tarragon, or chill, garlic or other substances Aromatic vinegars, used medicinally, contain cinnamon, peppermint

In addition to its uses in cool ery and with salads and fish, vinegar is a base in the manu facture of many sauces and is employed in pickling and for preserving meat and vege

tables

Vinegar Hill Hill in Co W Wexford near Enniscorthy and was the headquarters of those who rose in rebellion in 1798 They made their camp here and committed outrages in the surrounding country The British troops surrounded them on June 21, and, after a hard fight killed or dispersed them

Vinegar Plant Term applied to a slimy gelatinous mass found on the surface of alcoholic fluids during fermentation. It is composed of filaments of bacteria and fungi which form a floating layer on the fluid. The action of these, the fungi Mycoderma aceti in particular, converts the

alcohol into vinegar

Vingt-et-Un Game of cards It is persons and the aim of each player is to get his score as near to 21 as possible without exceeding that number It is played with the whole pack of 52 cards

The court cards count 10 each and an ace may count either 1 or 11 as its holder wishes

Vint Card game It is not unlike bridge The full pack is used and the player making the highest call declares trumps Each player bids for the deal independently and the one sitting opposite to the successful caller automatically becomes his partner. The suits rank spades, clubs diamonds and hearts when calling, but in scoring all are equal. As in bridge there is a trump call but the scoring is somewhat different. See Bridge

Vintage Yearly produce of grapes, the grape harvest The term is used for the wine made from the grapes of a parti-cular year, as when one speaks of the cham pagne vintage of 1888 In this sense it is much

used by wine merchants

Vintner Old name for a seller of wine of the twelve great livery companies of the city of London It has an income of £15,000 a year Its hall in Upper Thames Street, facing the Thames, was rebuilt in 1929

V101 Musical instrument. It was the precursor of the violin or little viol Like it, the viol which has three, four, five or

Viola Musical instrument. To this large type of viola, the part between the bass and second violin is assigned in orches tration. Of its four catgut strings the third and fourth are covered with silver wire tuned C (second space of bass staff), D. A. G. and is a perfect fifth lower than the violin, a an octave higher than the 'cello

V101et Genus of herbs of the order Viola ceae. They are perennials of low growth, seven species being British The sweet violet, V odorata, is found wild in southern and eastern England The leaves are broad and heart shaped and the blossoms Durnle or white. purple or white

which the small flowering branches extend The genus includes the heartscase or wild pansy, Viola tricolor, with blooms of purple yellow or white or a blending of these colours

Violin Instrument of music The modern instrument seems to be a develop The modern ment of the ancient viol a bowed instrument, and owes much to the science and craftsman ship of the 16th, 17th and 18th century Italian schools, among which the Brescia and Cremona schools are the most notable The variations of the sound holes represent the different styles of manufacture, but the superiority of the older violins is probably traceable not to superior wood, but to a secret method of preparing the varnish Essential features of the modern instrument are the four strings, tuned in fifths the bridge which was per fected by Stradivari the catgut made from lamb's intestines and the bow, which is of Pernambuco wood or of American oal in poorer quality bows

Violoncello Instrument of music Simi all its essentials to the violin, its name signifies amall violone yet it has nothing in common with the violone which has the flat back and sloping shoulders of the viol The 'cello has four strings It is tuned C, G, D A, an octave lower than the viola, and rests on a spike between the performers knees, when being

played

Vıper Group of venomous snakes of the Viperadac, found in Europe, Africa The British species is known as the b) True vipers (Vipera) have a and Asia adder (qv) characteristic flattened triangular head and relatively short, thick body Russell's viper of India causes many deaths each year The family includes also the rattlesnakes and other venomous species The horned viper (Cerastes) of Africa, a small sand coloured species with short horn like projections above the eyes is reputed to be the "asp" of Cleopatra.

Viper's Bugloss (Echium vulgare) nial herbaceous plant of the order Boraginaceae The tall stem and the leaves are covered with short bristly hairs The flowers are borne in a long panicle bearing short clusters of crowded blossoms These are at first purplish red, changing to a vivid blue as the bloom expands It grows wild in chalky and gravelly places

Virchow Rudolf German pathologist Born Oct. 13, 1821, at Schlvel bein, Pomerania, he studied medicine in Berlin, became lecturer at the university there in 1847, and later director of the Pathological Institute His contributions to pathological science were unrivalled, and those to archae ology and anthropology equally great. He worked incessantly for the improvement of hospitals and asylums for adequate drainage and pure water, and took an active part in the municipal government of Berlin He died Sept 6 1902

Virginal Musical instrument A form of harpsichord, it has one key and is oblong in shape See Harpsichord

They are perennials of low pecies boing British The codorata, is found wild in rise England The leaves are shaped and the blossoms of the varieties include the codorata that the codorata is found wild in Cisalpine, Gaul He had a thorough education and retired to his farm to write This farm was selzed after the Battle of Phillippi, but given back to him by Octavian to whom

In gratitude he wrote the Eclogues He was fortunate in the patronage of Maecenas and succeeded him jointly, Gian, who was allothers whose munificence gave him the leisure powerful, was made Duke of Milan by the Limperor Wenceslaus, and he founded Milan celebrating the glory of Rome and of the Julian house, and the Georgies, his most Filippo Maria, who died in 1447, the last of the male line. to write the Aencid, a supreme epic poem celebrating the glory of Rome and of the Julian house, and the Georgics, his most finished work. He died at Brundisium on Sept 22, 19 B C

Virginia State of the U.S.A. It lies along the Atlantic Ocean, with Pennsylvania on the north and the Carolinas on the south, and covers 42,627 sq m The valley of Virginia, enclosed by the Alleghanies and the Blue Ridge range, is extremely fertile, as is also the central plain Rivers include the Potomac, Rappahannock, York and James There are many first rate harbours Tobacco is very widely grown, as well as maize and other There are coalfields and granite and cereals slate quarries, and profitable ovster fisheries The capital is Richmond The state was named after Queen Elizabeth, and contains the oldest European settlements in the country, the first permanent colonists landing there in It was one of the 13 original states of the Union and it retains many traces of English influence It is governed by a legislature of two houses and sends two senstors and representatives to Congress 2,421,851 Pop

Virginia Creeper (Filis quinque-climbing shrub of the order I ilaccae American in origin it is commonly grown on walls or houses The leaves are large and green, turning in autumn to vivid scarlet and russet shades Ampelopsis realchi a Japanese species, has smaller short steinmed leaves which adhere closely to any wall or support forming a

compact thick covering

Virginia Water Artificial lake in Windsor Park, also the name of a district in Surrey, with a station on the S Riv The lake, 1½ m long, was made from marshland by order of the Duke of Cumberland in 1716 Near it is Fort Belvedore, the residence of the Prince of Wales

Virgin Islands A group of 100 islands The majority are barren, sandy or rocky, but maize, coffee, cotton, sugar and indigo are produced Several are British, and the rest formerly belonged to Denmark and USA Denmark sold hers to USA in 1917 The principal town of the British Islands is Roadtown They were discovered in 1494 by Columbus and named after S Ursula by Columbus and named after S Ursula

Vischer Poter German sculptor He the son of an artist in bronze Among his best known works are the tomb of Duke Ernest in Magdeburg Cathedral, the shrine of S Schald in Nuremberg, and the relief representing the coronation of the Blessed Virgin in Erfurt Cathedral He died Jan 7, 1529

Visconti Famous family, which ruled over Milan for two hundred years Ottone Visconti was appointed to the Archbishopric of Milan in 1262 He had to drive the rival family of Della Torre out of the city before he could take possession of the sec eity before he could take possession of the see His nephew Matteo succeeded him During the 14th century, there was much trouble between the Visconti and the Pope, but they were supreme in Milan, and Galeazzo II made marriage alliances with Edward III of England, and John of France He was a patron of the arts, and established a university at Pavia

male line

Viscosity Term in physics applied to the property of matter in a fluid or pascous state of resisting immediate change of shape or relative motion of its parts This results, when viscosity is high, in a slow flowing movement of the fluid as in gums oils and treacle Liquids vary greatly in their degree of viscosity, which also varies according to the temperature of the substance A special instrument known as a viscometer is used to measure the viscosity of petroleum, olls and other viscous liquids

Viscount Title in the peerage of the United Kingdom It originated in France when the recomic was the deputy of the count It ranks fourth in the peerage, between earl and baron, although it is the junior of all, as the first viscount was not created until 1446 The oldest existing viscounties are the Irish one of Gormanston dating from 1478, and the English one of Hereford from 1550 It has become the custom to bestow the title of viscount upon all cabinet ministers who are raised to the peerage

Vishnu In Hindu mythology, a solar god, one of the Supreme Three, together with Brahma and Siva, to-day he is often worshipped as the superior of Brahma In Vedic books, he is represented as the vouth who traverses the world in three strides the last of which is invisible to man This symbolises the rising, culminating, and setting sun To day he is called the Preserver, and is represented with four arms, holding a club, shell, discus and lotus, and riding upon the Garuda Garuda

Visigoth Branch of the Goths In the 2nd century the Goths divided themselves into two branches, east and west, called Ostrogoths and Visigoths The latter moved westward and founded a kingdom in Spain, which lasted till 711 See Goths

Visitation Order of the Religious festival in the Roman Catholic and Greek churches It is held on July 2 and commemorates the visit of the Virgin Mary to Elizabeth as recorded in the Gospels

The visitation of the sick is an office in the Anglican church It includes provision for special confession and absolution The service for it is in the prayer book of the Church of

England

Visitor Literally one who visits In a person who is authorised to visit a college or person who is authorized to visit a conege of institution to see that it is properly managed. Thus each of the colleges at Oxford and Cambridge has its visitor and the judges of the high court are the visitors of the inns of court. The office is mainly an honorary one, the contract of the right to provide her but an occasion for the visitor to exercise his authority may arise at any time At Oxford and Cambridge the office is held in most cases by a bishop, but occasionally by a nobleman, the Earl of Pembroke is the visitor of Pembroke College, Oxford Balliol College, Oxford, is the only college that has the right to elect its own visitor

Vistula River of central Europe Rising Czechoslovakia, it flows

VOLE 1270

through Poland and Prussia and debouches at It is about 650 m in length, and Danzig floods freezing and shifting banks are a serious impediment to navigation Formerly all mpediment to navigation. Formerly all German, the possession of the Vistula was a subject of legal dispute at the Treaty of Vorsailles. The campaign of the San Vistula was the scene of an unsuccessful attack by Falkenhayn on the Russian troops for the relief of Austria

Vitamin Group of substances, present in various foods and indispensable to health and growth Their composition and mode of action is not vot understood, but a number have been differentiated by their chemical and physiological action Vitamin A, present in cod liver oil, eggs and liver of many animals and Vitamin B in lean meat, yeast eggs, wheat-germs, legumes, etc., are necessary for proper growth Vitamin C, in green vege for proper growth Vitamin C, in green vege tables and citrus fruit juice prevents, or cures, scurvy Vitamin D, also present in cod liver oil, is necessary for the proper calcification of bones, its absence causing "rickets"

Comprehensive name for various Vitriol Comprehensive Zine sulphate is white, copper sulphate blue and iron sulphate green vitriol See Sulphurio Acid

Vittoria City of Spain. In the north of the country It is 30 m from Bilbao and stands on the River Zadorra The chief building is the cathedral and there are others dating from the time when the city was a fortress Pop (1931) 40,942
On June 21, 1813 the British troops under Wellington gained a decisive victory over the

French here

Vittorio
Town of Italy it gives he name to a battle fought near here in Oct., 1918, between the Italians and the Austrians and called the Battle of Vittorio Veneto It was part of the Italian offensive and began on Oct. 23 By Oct. 31 the Austrians Town of Italy were in retreat

Vitus Roman martyr The son of a Sicillan pagan, he perished at Rome in the persecution under Diocletian In the Roman Church his day is celebrated on June 15 His ald is invoked against various allments, which include hydrophobia and chorea (St Vitus' dance)

V1V1211 René French statesman Born V1V12111 René French statesman Born 8, 1863, he became a lawyer, and was elected Socialist deputy for Paris in 1893 In 1906 he became Minister of Labour In June, 1914, Viviani became Premier and Minister for Foreign Affairs While returning from Russia with Poincaré he heard of Austria's ultimatum to Sepbia, and withdrew Austria's ultimatum to Serbia, and withdrew the French forces ten kilometres from the frontier to show his pacific attitude. He was succeeded in 1915 by Briand, but became Minister of Justice and in 1921 he accompanied Briand to the Washington conference. He was in full sympathy with the League of Nations He died Sept. 7, 1925

Vivien Character of the Arthurian le gends Vivien was a lovely enchantress, the mistress of the sorcerer, Moelin She cast a spell over him, which took

enchantress, the mistress of the sorcerer, Merlin She cast a spell over him, which took away his power, and imprisoned him in a thicket of thorn She is sometimes called 'The Lady of the Lake,' because her palace was set in the middle of a magical lake

vivisection has been hampered by the propaganda of anti vivisection societies, despite the good work which vivisection has done the 19th century, strict control has been exercised over viviscotors, making licences and anaesthetics essential, though inoculations were the early method.

Name formerly used in Turkey Vizier and other Mohammedan countries for a minister of state In Turkey, under the Sultan, the prime minister was known as the Grand Vizier

Vladivostok Town of the far eastern area of Soviet Asia It is situated on the Sea of Japan, on the opening known as Peter the Great Bay The place derives its importance from the fact that it is the Pacific terminus of the Trans-Siberian Railway and from its possession of a good harbour The town dates from 1860 During the Great War Vladlvostok was used as a base for the Czechoslovak troops 107,977 Pop (1930)

Vocalion Name given to a type of harmonium It was invented in the 19th century and was considered to possess greater purity and variety of tone than the ordinary harmonium

Vodka Name of a spirituous liquor It is made in Russia by distilling rve or potatoes. It is very potent and at times its manufacture and sale have been forbidden

Voice Sound from the mouth, utterance or mode of utterance. It is used chiefly for sounds made by human beings in whom the tones of the voice differ, the voices of men being lower than those of women and children, the reason being that the vocal cords are longer. The training of the voice is a matter of great importance to singers and actors, to a lesser extent to clergymen, ministers and other public speakers, and to it a good deal of attention is paid at training colleges

Voil Loch or lake of Perthshire It is in the hills, 3 m from Balquhidder It is 31 m long and the little river Balvag flows through it

Volapuk Universal language invented by a pastor, Johann c, at Constance in 1879 It has a Martin Schleyer, at Constance in 1879 It has a vocabulary of about 15,000 words, taken from Latin, English and the Romance languages. The alphabet consists of 26 letters, 8 being vowels and the rest consonants. It has only one declension and one conjugation, and most of the words are monosyllables

Volcano An opening in the crust of the earth, through which superheated matter is expelled, forming a hill with a crater The chef volcano centres are Italy and Sicily (Vesuvius, Etna, Stromboli) the southern Andes, Dutch East Indies and Japan Volcanoes may be many years in repose, but the longer their repose the greater their violence in eruption Bandal san in Japan, previous to the support of the su previous to its eruption in 1888, had lain dormant for 1000 years Proparatory phenomena are earthquakes and detonations, and the eruptions are succeeded by dense clouds of vapour which may form brilliant sunsets and lava (a mud formed by steam and ash or else molten silicates)

The Lady of the Lake," because her palace was set in the middle of a magical lake

Vivisection Operation performed on a living animal in the interest of medical advancement. The progress of

teeth adapted to their diet of plants, grain, etc. The field vole (Aircroius agrestis) has a short tail, brown fur above and lighter beneath. It damages crops by its burrowing habits. The water vole, 8 ins long without its tail, has reddish or yellowish-brown fur and lives in a burrow beside a stream

Volga Russian river It is 2325 m in length, rises in the Valdai plateau, and enters the Caspian Sea at Astrakhan Leningrad is now connected with the Volga by canal, and forms a much more important port than Astrakhan which is spoiled by sandbars. The Volga tends to destroy its banks and to flood Steamers now ply between Leningrad and Astrakhan The sturgeon, esteemed for its caviare, is found in the lower waters of the river

Volstead Act Term popularly used for the act of Congress that in 1919 made the sale of intoxicating liquor illegal in the United States It took the form of the 18th amendment to the constitution and is named after one of its promoters. There was a considerable agitation for the repeal of the Act and the abolition of prohibition in the middle of 1932

Volt Unit of electromotive force or potential difference (electrical pressure)
It is defined as the pressure which, applied to a conductor of 1 ohm resistance, will produce a current of 1 ampère One volt x one ampère one watt. See Ampère, Oim, Watt

Voltaire François Marie Arouet de French author, playwright and philosopher Born at Paris on Nov 24, 1694, he took the name of Voltaire at the age of 21 Educated by the Jesuits he soon became known in the literary world He lived for a short time in England, and later visited Berlin, where he was for a period the close friend and counsellor of Frederick II After quarrelling with the king he returned to France and spent the remainder of his life at Ferney on Lake Geneva

As a playwright, his best known works are Zaire, Mérope and Mohamet In verse his satires and epigrams are still remembered His best history studies are those of Charles XII and of the age of Louis XIV His stories, Candide and Zadig, and his long epic, La Henriade, are also famous

As a philosopher, he fought against intolerance of all kinds, including religious bigotry While not a democrat (he believed rather in onlightened despetism), he was a promoter of social reforms of all kinds. His style is an outstanding example of clarity, elegance and purity of expression. He died May 30, 1778

Voltameter Instrument used for electrolytic decomposition produced by an electric current It should be distinguished from a voltmeter, which is an instrument for measuring voltage

Volunteer One who offers his services The name was given especially to bands of men who volunteered to undergo military training in order to serve their country in case of invasion or war In England the first volunteers to bear the name were raised during the American War of 1778, and some fifteen years later they were again formed to resist a possible French invasion The volunteer force proper was formed in 1859 and continued with increasing strength until 1908, when it was merged into the

territorials The name persists in such organisations as the Naval Volunteer Reserve

Volvox Genus of flagellate infusorians resembling algae, found in fresh water ponds The protozoon exists as a colony of one-celled organisms in the form of a hollow sphere, mobile by reason of the two flagella borne by each individual The sphere has a gelatinous covering through which the flagella protrude. The organisms secrete chlorophyll, and use this substance to manufacture starch in the same manner as plants

Vomiting of Blood This may be injury, to poisoning by some corrosive, to varicose veins of the lower part of the gullet, or to disease of the stomach, such as cancer or ulcer

Treatment—Keep the patient lying on his side, give no food or alcohol, and no fee to suck. Place an fee-bag on the pit of the stomach

Remember that blood may have been swallowed, as in some cases of bleeding from the lung, and after an operation such as the removal of tonsils

VOOdOO Form of fetish-worship It is Indian and American negroes, especially those of Haiti, and is supposed to have been introduced from Africa by slaves With it are associated snake worship, and obscene rites involving the use of human blood

Voronoff Serge Russian surgeon. Born July 10, 1866, he studied medicine in Paris, becoming chief surgeon in the Russian Hospital and later at the Military Hospital there He is best known for his method of proventing or delaying senility by grafting healthy animal glands into the human body Among his publications are Thyroid Grafting and Life, the Study of Old Age and My Method of Rejuvenation.

Vorticism A tendency in pre-war art The vorticists originated in 1913 from a society which included P Wyndham Lewis and the poet Ezra Pound Their theory was that modern art should be based on the principles of an industrial civilisation, and that subjects should evolve from the artist's "vortex," or general conceptions of relations of ideas Vorticism, which had much in common with futurism and cubism, has produced such artists as Lewis and J. Kauffer

Vos Marten de Flemish painter Born in Antwerp in 1532, he spent some years in Rome and Venice, where he greatly benefited from Tintoretto's friendship He painted several of the Medici family and returned to Flanders a celebrity His later works included several altar pieces, and the two triptychs "The Triumph of Christ" and "The Incredulity of St Thomas" He died in Antwerp on Dec. 17, 1603 Many of his pictures were destroyed by the iconoclasts

Vosges Mountains of central Europe, ranging 150 m along the west of the Rhine from Baslo to Mainz This well-wooded territory has much in common with the Black Forest region The mountains are rarely more than 3000 ft, in them rise the Meurthe, Moselle, Sarre and Ill Notably at Saverne, Ste Odile, etc, the scenery is very picturesque

A department of France, in which vinecultivation and arable farming flourish, is also named Vosges Gerardiner is a famous summer resort, while Vittel and Contrexeville are notable for their mineral waters Epinal is the

principal town

Vote Expression of a will or an opinion, especially at an election Voting is sometimes done by show of hands, as at public meetings, but for important purposes, such as the election of members to parliament and county and other councils, it is done by ballot Before 1870 open voting was usual at elections for members of parliament. Voting is usually for a man, but it may be a referendum for a cause, eg, prohibition or Sunday

closing
Each country has its own laws stating who
is entitled to vote The privilege is confined
to adults, and for long to men only, but in the
20th century many countries gave to women

the right to vote

A vote of credit is a grant of money by the will be spent. Such are made in times of emergency, such as at the outbreak of a war See Election

Vow Solemn promise or undertaking It is chiefly used in a religious sense. There are examples in the Bible of the taking of vows to do a certain thing, and the custom was popular among knights and others in the Middle Ages Many of them undertook to abstain from some pleasure, or even necessity, until they had performed a certain act Members of the religious orders took vows of poverty, chastity and obedience, and those who enter these orders to day take vows in the Church of England there is a difference of opinion as to whether vows of this kind should be recognised

was included in the Transvaal and in 1902 was transferred to Natal Pop 3940

Vrynwy shire It was made between 1890 and 1905 in order to supply Liverpool with water The name is that of a river, a tributary of the Severn, which was used to make the lake The lake is 5 m long and the water is taken for 68 m to Liverpool

Vulcan Roman god of fire It is very doubtful that he was the patron of smiths Augustus' efforts to check the frequent disastrous Roman fires earned him the worship of the people as Volcanus quietus augustus In places where much grain was stored Vulcan's worship became famous.

Vulcanite Modification of rubber It is made by treating rubber with sulphur, the result being a hard, dark-coloured composition which has a number of commercial uses, especially as an electrical translation. insulator It is also known as ebonite

Vulgate Latin version of the Bible It was prepared by Jerome in the latter part of the 4th century at the invitation of Pope Damacus In the New Testament the Vulgate was little more than a revision of the existing text, but the Old Testament version was an independent translation from the Hebrew into Latin It was pronounced authentic by the Council of Trent for use in the Roman Church

Vulture Name given to birds of prey of the families Vulturidae and Catharidae, the latter being American. They resemble the eagles, but almost all have a bare head and neck The beak is hooked They feed on dead animals The black vulture The black vulture (Vultur monachus) and the griffin vulture (Gyps fulvus), large birds of the Mediterranean region and S Europe respectively belong to Vryheid Town of Natal It is 290 m (*Yultur monacus*) and the grimn vulture from Durban, on the railway line to Dundee It is a mining centre especially for coal and iron ore From 1884 to 1888 be mentioned the condor and the turkey Vryheid was a little Boer republic. In 1888 it buzzard (qv)

AAL Branch of the Rhine, flowing through the Notherlands The Rhine divides near Arnheim, the Waal being the larger branch which flows through Gelderland and is joined by the Meuse It flows into the N Sea through nt Gorinchem The chief towns on its banks reveral mouths

are Nijmeguen and Tiel Waddon District of Crovdon It is nbout 11 m from London, on the S Rly Here is the chief air port of London and there are introduced water house and the chief air port of London and there are perodromes, custom house, repairing shops and

Wadebridge Wrban district and market town of Cornwall An agricultural centre, it stands on the estuary of the river Camel, 7 m north-east of Bodmin and 264 from London, by the GW Rlv Pop (1931) 2460

Wages Money paid for work done output, ic, piece work. The standard tends to fluctuate with the question of supply and demand, but no member of a trade union is supposed to work for wages below the minimum rate fixed by his union, lest he should undersell rate fixed by his union, lest he should undersell his fellows In theory wages have some relation to the cost of living

Wagga Wagga Town of New South wales An important junction on the Southern Main Rallway, 314 m from Sydney and on the Murrumbidgee River, it is a business centre for the Riverina, one of the richest agricultural and pastoral districts, with good buildings and well-paved streets lined with avenues of trees An agricultural show is held annually trees An agricultural show is held annually Pop (1931) 9110

Pop (1931) 9110

Wagner Richard German composer
Wagner Born at Leipzig, May 22, 1813,
he took early to writing, but success did not
reward him until he had experienced the most
strattened circumstances After he had found
a friend in Ludwig II of Bavaria, he wrote
in quick succession Rienci, Der Fliegende
Hollander, Tannhauser, Lohengrin, Der Ring
des Nibelungen (a tetralogy), Tristan und
Isolde, Die Meistersinger and Parsifal, mainly
legendary in theme Wagner resided at
Bayreuth for a time and died from heart
failure at Venice, Fob 13, 1883 His importance
in music is due to his dramatic style, while his
harmony, which at first seemed discordant,
has opened up the way to others, influencing
strongly, for example, Strauss and Debussy
Willage near Vienna, Austria,

Wagram Village near Vienna, Austria, which gave its name to the Battle of Wagram, fought July 5 and 6, 1809, between Napoleon and the Austrians under the Archduke Charles Napoleon concentrated all archduke charles are its property and management of the caveling artillary and management for Archduke Charles Napoleon concentrated all available cavalry, artillery and man-power for a final effort Using the island of Lobau, on the Danube, as a fortress, and with the aid of his generals, Davout, Oudinot and Masséna, he split the Austrian army near Wagram, and won the battle, although with tremendous loss

The tail is long and is in lively movement while the bird runs about The yellow, grey and pied wagtails are common in Britain, the white wagtail is a migrant visitor

Wahhabi Mohammedan sect The Wahhabi Mohammedan sect The Wahhabis are followers of Abe-el-Wahab, an Arab reformer who, at the beginning of the 18th century, taught the necessity of complete obedience to the Koran. In 1742 Mahammed Ibn Saud embraced the reform and set about spreading it, with the reform and set about spreading it, with the result that by 1804 the sect had established dominion over Arabia Their power was broken by Mehemet Ali in 1818 and their chief executed In the 20th century they came into prominence under the Saud (q v)

Town of New Zealand In North

Washi Town of New Zealand In North Island, it is 32 m from Thames, on the rly line to Auckland It is famous for its gold mines Pop 7000

Waikato River of New Zealand In North Island, it is 200 m. long It flows through Lake Tarpo, and is navigable for about 75 m, before it enters the contract of the programs of the privar are some fine fulls Tasman Sea On the river are some fine falls

Wailing Wall Part of the western Court at Jerusalem The name is that given by Gentile observers of the Jewish ritual associated with this place Part of the wall probably dates from the time of Solomon, and for conturing the place has been regarded by propagily dates from the time of Solomon, and for centuries the place has been regarded by both Jows and Moslems as one of special sanctity. A dispute between these two rival claimants led to an outbreak of violence in Aug, 1929, which was settled by a League of Nations Commission.

Waimati Town of New Zealand On South Island it is 130 m from Christchurch The industries include from Christchurch

from Christchurch The industries include flour mills Pop 1900

Wainfleet Town of Lincolnshire It is 130 m town of Lincolnshire It is 150 m town of Skegness, and 127 m from London by the LNE Rly William de Waynflete, founder of Magdalen Collego, Oxford, also founded the grammar school here Pop 2164

Wakefield City, county borough and (WR) It is also the capital of the west riding It stands on the Calder, 9 m. from Leeds, on the LMS and LNE Rlys The buildings include the fine cathedral in the perpendicular style, the parish church until Wakefield was made the seat of a bishop in 1888 The grammar school dates from the 16th contury, and on a bridge over the Calder is a contury, and on a bridge over the Calder is a beautiful chantry chapel Chemicals, soap and beer are manufactured and there is a large trade in agricultural produce Around are coal mines Pop (1931) 59,115

The Battle of Wakefield was fought between

the Yorkists and the Lancastrians just outside the town on Dec 30, 1460 The Yorkists were defeated and Richard, Duke of York, and his son, Edward, were among the killed

Wakefield Edward Gibbon British statesman and colonist. Born May 20, 1796, he was educated at Westminster After a period of service in the diplomatic service and a term of imprisonment in the description of the colonistics. Edward Gibbon Won the Dates, and the passerine bird diplomatic service and a term of imprisonment for abduction, he took part in the colonisation of South Australia, went to Canada as secretary

to the Earl of Durham (1838), and played a large part in the colonisation of New Zealand He wrote a book on capital punishment (1830), and a View of the Art of Colonisation (1849) He died May 18, 1862

Perennial wild plant Wake Robin (Arum maculatum) vvake NODIII (Arum maculatum) familiarly known as lords and ladies, cuckoo pint or starchwort The rootstock is tuberous, and the first leaves arrow-shaped and spotted with purple or black The flower's stem bears a pale green folded wrapper which opens in the shape of a monk's cowl This reveals a purple column round the lower part of which the minute flowers are arranged. As the plant withers, the flowers are succeeded by pale gearlet poisonous berries pale scarlet poisonous berries

Walcheren Island of the Netherlands It is in the estuary of the Scheldt and is about 13 m long It produces wheat and other cereals. Cattle are reared the chief places on the island are Middelburg, Flushing and others, which are connected by railway with the mainland

In 1809 a British expedition was sent to Middelburg at the procession of the

Walcheren, then in the possession of the French It consisted of about 39,000 men commanded by the Earl of Chatham. They landed in July and captured Flushing, but fever broke out and the survivors were compelled to return before the end of the year

Waldenses Religious sect Founded by Peter Waldo, a Lyons philanthropist, about 1114, they denounced the Church of Rome and developed individual ism. Persecuted, they disappeared from the South of France, and lived in the valleys of Pledmont, SW of Turin, for several centuries They were later known as the Vaudois, and

They were later known as the Vaudois, and became absorbed in the general movement of Protestantism about 1532

Wales Country or principality of Great Britain It is to the west of England and has a long coast line on the Irish Sea and Bristol Channel It is divided into 12 counties, six in North and six in South Weles Caernaryon and Cardiff are the Caernaryon and Cardiff are capitals It covers 7467 sq m For purposes of administration Monmouthshire, which is partly Welsh is included in Wales

Wales is famous for its scenery especially mountain scenery In North Wales are its mountain scenery In North Wales are Snowdon and other peaks over 3000 ft high, with magnificent passes and lovely valleys between them. The rivers add much to the beauty of the district Cader Idris in Merioneth beauty of the district Cauter Hurish mentioned shire dominates another district of great beauty and here too, the rivers and lakes add much to the charm. In South Wales the mountains and river valleys of Cardiganshire, Brecknockshire and Radnorshire are in their way equally fine Glamorganshire is an industrial district, but here too are landscapes of great beauty Finally there is the romantic coast scenery of Pembrokeshire and Carmarthenshire

marthenshire

Wales has many watering places Llandudno,
Rhyl, Aberystwyth, Barmouth, Tenby and
Portheawl are among the most popular, but
there are many others Inland are several
spas notably Llandrindod Wells. The rivers
Severn and Wye rise in Wales and they pass
into England the shorter ones—Dee, Conway,
Bovey, Mawddagh, Teify, Towy, Tafi Ogmore
and others are wholly Welsh Bala is the
largest lake This country is served by the
G W and L.M S Rlys Pop (1931) 2,247,391,
of which 1,225,713 live in Glamorganshire.

The earliest recorded inhabitants of Wales were Celts, they were subdued by the Romans and the Normans, but not completely by any means and lived in their own way under their own princes for many centuries, carrying on constant war with their English neighbours. They were converted to Christianity in Roman times In the time of Fedward I Wales was really conquered by England and an English prince was made Prince of Wales The native values disappeared and somewhat later the land was divided into counties By the Act of Union (1538) English law was made current in Wales, and Wolsh representatives were admitted to Parliament

The Welsh have a language and literature of the county of th

of their own In the 18th century there was a considerable revival of national feeling Welsh is taught in the schools over a good part of Wales and a considerable proportion of the people speak both it and English This national feeling has been kept alive by the Eisteddfod which has been held annually for

at least 800 years

The English Church was for long established The English Church was for long established in Wales, but in the 18th and 19th centuries the majority of the people became Nonconformists As the result of a long agitation the church was disestablished and disendowed in 1920 It is now an independent organisation divided into six dioceses, S Asaph, S Davids, Llandaff, Bangor, Monmouth and Swansea and Brecon. The Archbishop of Wales is the primate and the synod is the governing bod:

The University of Wales, founded in 1893, consists of colleges at Aberystwyth, Bangor, Cardiff and Swansea

Wales Prince of See Edward

Walking Form of sport It has been practised more in Italy than elsewhere The earliest champion walkers were, however, Larner and Webb of Britain. In England, the London Brighton Walk is still held yearly, and a host of clubs and com-petitions flourish Keenness for walking has enjoyed a remarkable vogue in Britain since 1931, being familiarly known as hiking, but it had been for a long time a popular form of recreation in Germany

Wallaby Species of small kangaroo only in size and coloration which it differs

Wallace Alfred Russel English naturalist Born Jan. 8, 1823, at Usk in Monmouth he travelled extensively and formed his theory of evolution at the same time as Darwin (qv) On many points he differed from Darwin, particularly in regard to selection in animals The "Wallace line" is an imaginary line drawn through the Malay Islands, to the north of which exist mammals widely differing from those of the south Wallace died at Broadstone on Nov 7, 1913 Among his many books are Man's Place in the Universe and Social Environment and Moral Progress

Wallace Edgar English journalist. Born in London in 1875, and brought up by a Billingsgate fish porter, he developed literary tastes while a soldier in 8 Africa, and then became a war correspondent, and later dramatic and racing journalist in London. He had an unrivalled acquaintance with the criminal classes, and wrote 150 novels and 14 plays He died Feb 10, 1932, in Holly-wood. California.

Sir Richard Wallace collector Born in London, July 26, 1818, he spent much of his life in Paris, where he made a wonderful collection of paintings, furniture, armour and bric a-brac of paintings, furniture, armour and bric a-brac In 1871 he was made a baronet for services in the siege of Paris, where he died July 20, 1890 Ladv Wallace (d 1897) bequeathed his collection to England It is housed in Hertford House, Manchester Square, London Wallace Sir William Scottish national Outlawed for killing an Englishman in a contract and gathering a desperate hand round

quarrel, and gathering a desperate band round him, drove the English from Scotland in 1297 him, drove the English From Scotland in 1297. He was then made Guardian of Scotland and ruled wisely. In 1298 he was conquered by Edward I at Falkirk, and in 1305 was treacherously handed over to the king, who had him executed, Aug. 22, 1305.

Wallachia. Division of Rumania. It lies between the Carden and the Blook Sea and

pathians and the Danube, the Black Sea and Serbia, and has an area of 30,000 sq m. and a population of about 3,298 400 It was formerly a Danubian principality

Wallaroo Seaport of S Australia Situated on Spencer Gulf, it is the port for a copper mining district and considerable export trade. The chief industry Pop 4020 is copper smelting

Wallasey County borough of Cheshire of the estuary of the Mersey, and 206 m from London, on the LMS Rly A ferry service connects it with Liverpool It includes the seaside resorts of New Brighton, Seacombe, Egremont and Liscard and is a residential suburb of Liverpool Pop (1931) 97,465

Wallenstein Albrecht Wenzel EuseWallenstein blus von German
soldier and politician He was born in
Bohemia, Sept. 15 1583 During the capture
of Bohemia by Ferdinand II he secured
territory which he made into his own realm
of Friedland He was Ferdinand's most
powerful supporter in the Thirty Years' War
Ultimately, after attaining great power, he
was suspected of treachery and dismissed in
Jan. 1664, being assassinated on Feb 25 Jan, 1664, being assassinated on Feb 25

Waller Edmund English poet. He was born Mar 9, 1806 at Coleshill, Buckinghamshire, and was educated at Eton and King's College, Cambridge He entered Parliament in 1625 and was a member of the Long Parliament until 1643, and sat in Parlia-Long Parliament until 1043, and sat in Parliament after the Restoration For his share in a plot to assist Charles I in 1643 he was fined £10,000 and banished, but was pardoned, and returned to England in 1651 He is chiefly known for the lyrics he wrote to the lady he called Sacharissa, who was Lady Dorothy Sidney He died Oct 21, 1687

Wallflower Perennial flowering plant order Cruciferae. The original wild variety, introduced into England in the 16th century hears single yellow blooms and is found on runned buildings in many parts of the country Oultivated varieties display every shade of red brown, gold, bronze and purple

Wallingford Borough and market town of Berkshire It is on the Thames, 15 m from Reading, and 51 from London by the GW Rly. There are remains of a castle, and a stone bridge crosses the river Here, in 1153, Stephen crosses the river

English art | concluded a treaty with Matilda, in which it was agreed that her son, afterwards Henry II, should succeed Stephen Pop (1931) 2840

With Beddington Wallington With Beddington and Urban district of Surrey It is 3 m S W of Croydon, on the S Rly See BEDDINGTON

Walloon Race found in certain parts of Belgium and N France Their language is a Romance dialect akin to modern French but possessing affinities with the Celtic group The Walloons are said to number three millions, and resemble their French more than their Flemish neighbours Many came to England as refugees from the Inquisition They carried on silk wearing and other industries and have a chapel in the crypt of Canterbury Cathedral

Wall Pennywort Herbaceons umblicus) of the order Crassulaceae The flowers are borne in a long spike of drooping greenish white cup shaped blossoms Found on dry walls and rocky banks, it flourishes in Devon and the western counties of England

Wallsend Borough of Northumber-is 4 m from Newcastle and 272 from London by the LNE Rly The town is situated at the end of Hadrian's Wall, hence its name. Pop (1931) 44,582

Wall Street is in the older part of the city, near the end of the island. Here is the stock exchange

Walmer Urban district and summer resort of Kent It is 3 m from Deal and 82 from London, on the S

Rly The castle was built in the 10th Converge, and is the residence of the Lord Warden of the Cinque Ports Pop (1931) 5324

Walney Island and bathing resort of Lancashire It is 10 m long and about a mile wide In the centre is Vickerstown The island is part of the bor-

Walnut Tree (Juglans regua) grown in Britain since the 15th century From 40 to 60 ft in height, the massive stem has a smooth grey bark, which furrows and becomes rugged with age The head is wide and spreading with glossy green leaves, formed of a variable number of lance shaped leaflets A green fleshy case encloses the seed, or nut, in its hard, wrinkled shell The unripened fruits are used for pickling, and a fine oil expressed from the matured nut is employed in paint and varnish making employed in paint and varnish making The ripe nut of the walnut is a popular dessert fruit, and is much used in the making of sweet-meats It is also pickled for use at the table meats It is also pickled for use at the table.
The wood is valuable for furniture and

cabinet-making, and was once employed for the fashioning of gun stocks

Walpole Horace English man of letters Born Sept 24, 1717,

Walpole letters Born Sept 24, 1717, in London, fourth son of the 1st Earl of Orford, in London, fourth son of the 1st Earl of Orford, he travelled abroad, after leaving Cambridge, until 1741, and sat in Parliament from 1741-68

He bought a villa at Strawberry Hill near Twickenham in 1748, and rebuilt it as a Gothic mansion and museum He succeeded to the carldom in 1791, and was the author of The Castle of Otranto and many letters He died March 2, 1797

TATO 1 1 1 Hugh Sammen

Walpole Hugh Seymour English pole, Bishop of Edinburgh, he was born in

to the Earl of Durham (1838), and played a large part in the colonisation of New Zealand He wrote a book on capital punishment (1830), and a View of the Art of Colonisation (1849) He died May 18, 1862

Perennial wild plant Wake Robin (Arum maculatum) familiarly known as lords and ladies, cuckoo pint or starchwort The rootstock is tuberous and the first leaves arrow-shaped and spotted with purple or black. The flower's stem bears a pale green folded wrapper which opens in the shape of a monk's cowl This reveals a purple column round the lower part of which the minute flowers are arranged. As the plant withers, the flowers are succeeded by pale scarlet poisonous berries

Walcheren Island of the Netherlands It is in the estuary of the Scheldt and is about 13 m long It produces wheat and other cereals Cattle are reared the chief places on the island are Middelburg

ne chief piaces on the island are Middelburg Flushing and others which are connected by rallway with the mainland In 1809 a British expedition was sent to Walcheren, then in the possession of the French It consisted of about 39,000 men commanded by the Earl of Chatham. They landed in July and captured Flushing, but fever broke out and the survivors were com pelled to return before the end of the year

Waldenses Religious sect Founded by Peter Waldo, a Lyons philanthropist, about 1114, they denounced the Church of Rome and developed individual ism. Persecuted, they disappeared from the South of France, and lived in the valleys of Piedmont, S W of Turin, for several centuries. They were later known as the Vaudols, and

became absorbed in the general movement of Protestantism about 1532

Wales Country or principality of Great England and has a long coast line on the Irlsh Sea and Bristol Channel It is divided into 12 counties, six in North and six in South Caernaryon and Cardiff are capitals It covers 7467 sq m For purposes of administration Monmouthshire, which is

partly Welsh, is included in Wales

Wales is famous for its scenery especially s mountain scenery In North Wales are its mountain scenery In North Wales are Snowdon and other peaks over 3000 ft high, with magnificent passes and lovely valleys between them. The rivers add much to the beauty of the district Cader Idris in Merioneth beauty of the district. Cader laris in behavior shire dominates another district of great beauty, and here too the rivers and lakes add much to the charm. In South Wales the mountains and river valleys of Cardiganshire, Brecknockshire and Radnershire are in their way equally fine Glamorganshire is an industrial district but here too are landscapes of great beauty Finally there is the romantic coast scenery of Pembrokeshire and Car marthenshire

Wales has many watering places Llandudno, Rhyl Aberystwyth, Barmouth, Tenby and Porthcawl are among the most popular, but there are many others Inland are several spas, notably Llandrindod Wells. The rivers Severn and Wye rise in Wales and they pass lynt England. The character area. Dec Convert Into England the shorter ones—Dee, Conway, Bovey, Mawddagh, Teify, Towy, Tafi, Ogmore and others are wholly Welsh. Bals is the largest lake This country is served by the G W and L.M S Rlys Pop (1931) 2,247,391, of which 1,225,713 live in Glamorganshire.

The earliest recorded inhabitants of Wales were Cclts, they were subdued by the Romans and the Normans, but not completely by any means, and lived in their own way under their constant war with their English neighbours. They were converted to Christianity in Roman times In the time of Edward I Wales was really conquered by England and an English prince was made Prince of Wales The native rulers disappeared and somewhat later the land was divided into counties By the Act of Union (1536) English law was made current in Wales, and Welsh representatives were ad mitted to Parliament.

The Welsh have a language and literature of their own. In the 18th century there was a

of their own In the 18th century there was a considerable revival of national Welsh is taught in the schools over a good part of Wales and a considerable proportion of the people speak both it and English This national feeling has been kept alive by the Elsteddfod which has been held annually for at least 800 years

The English Church was for long established in Wales, but in the 18th and 19th centuries the majority of the people became Noncon formists As the result of a long agitation the church was disestablished and disendowed in 1920 It is now an independent organisation divided into six dioceses, S Asaph S Davids, Llandaff, Bangor, Monmouth and Swansea and Brecon. The Archbishop of Wales is the primate and the synod is the governing

body
The University of Wales, founded in 1893,
Abervatwyth. Bangor, consists of colleges at Aberystwyth, Bangor, Cardiff and Swansea.

Wales Prince of See EDWARD

Walking Form of sport It has been clsewhere The earliest champion walkers were, however, Larner and Webb of Britain. In England the London Brighton Walk is still held yearly, and a host of clubs and competitions flourish Keenness for walking has enjoyed a remarkable vogue in Britain since 1931, being familiarly known as hiking, but it had been for a long time a popular form of recreation in Germany recreation in Germany

Wallaby Species of small kangaroo only in size and coloration which it differs

Wallace Alfred Russel English naturalist Born Jan. 8, 1823, at Usk in Monmouth, he travelled extensively and formed his theory of eyolution at the same time as Darwin (q,v) On many points he differed from Darwin particularly in regard to selection in animals The "Wallace line" is an imaginary line drawn through the Malsy Islands, to the north of which exist mammals widely differing from those of the south Wallace died at Broadstone on Nov 7, 1913 Among his many books are Man's Place in the Universe and Social Environment and Moral Progress

Wallace Edgar English journalist Born in London in 1875, and brought up by a Billingsgate fish porter, he developed literary tastes while a soldier in 8 Africa and then became a war correspondent. and later dramatic and racing journalist in London He had an unrivalled acquaintance with the criminal classes and wrote 150 novels and 14 plays He died Feb 10, 1932, in Holly-wood. California.

Wallace Sir Richard English art concluded a treaty with Matilda, in which it was agreed that her son, afterwards Henry II, July 26, 1818, he spent much of his life in should succeed Stephen Pop (1931) 2840 Paris, where he made a wonderful collection Wallington With Beddington and Artistical Control of the Stephen Pop (1931) 2840 of paintings, furniture, armour and bric a-brac of paintings, furniture, armour and oric a-orac in 1871 he was made a baronet for services in the siege of Paris, where he died July 20, 1890 Lady Wallace (d 1897) bequeathed his collection to England It is housed in Hertford House, Manchester Square, London Wallace here Born in 1270, he was a thread for Julia or Englishmen in a

outlawed for Lilling an Englishman in a quarrel, and, gathering a desperate band round him, drove the English from Scotland in 1297 He was then made Guardian of Scotland and ruled wisel. In 1298 he was conquered by Edward I at Falkirk, and in 1305 was treacher-

caward I at Faiker, and in 1305 was treacherously handed over to the king, who had him executed, Aug 22, 1305

Wallachia Division of Rumania. It pathians and the Danubo, the Black Sea and Serbia, and has an area of 30,000 sq m. and a population of about 3,298,400 It was formerly a Danubian principality. formerly a Danubian principality

Wallaroo Seaport of S Australia Situated on Spencer Gulf, it is the port for a copper mining district and considerable export trade The chief industry considerable export trade Pop 4020 is copper smelting

Wallasey County borough of Cheshire It stands on the south side of the estuary of the Mersey, and 206 m from London, on the LMS Rly A ferry service connects it with Liverpool It includes the seaside resorts of New Brighton, Scaeombe, Egremont and Liscard and is a residential suburb of Liverpool Pop (1931) 97,465

Wallenstein Albrecht Wenzel Euso-He was born in During the capture and II he secured soldier and politician He was born in Bohemia, Sept. 15 1583 During the capture of Bohemia by Ferdinand II he secured territory which he made into his own realm of Friedland He was Ferdinand's most powerful supporter in the Thirty Years' War Ultimately, after attaining great power, he was suspected of treachery and dismissed in Jan., 1664, being assassinated on Feb 25 soldier and politician

Jan., 1664, being assassinated on Feb 25

Waller Edmund English poet He was
Buckinghamshire, and was educated at Eton
and King's College, Cambridge He entered
Parliament in 1625 and was a member of the
Long Parliament until 1643, and sat in Parliament after the Restoration For his share in
a plot to assist Charles I in 1643 he was
fined £10,000 and banished, but was pardoned,
and returned to England in 1651 He is
chiefly known for the lyrics he wrote to the
lady he called Sacharissa, who was Lady
Dorothy Sidney He died Oct 21, 1687

Wallflower Perennial flowering plant (Cheiranthus cheiri) of the order Cruciferae The original wild variety, order Crucyferae The original wild variety, introduced into England in the 16th century bears single yellow blooms and is found on ruined buildings in many parts of the country Cultivated varieties display every shade of red-brown, gold, bronze and purple

Wallingford Borough and market town of Berkshire It Is on the Thames, 15 m from Reading, and 51 from London by the GW Rly There are remains of a castle, and a stone bridge crosses the river Here, in 1153, Stephen mansion and museum He succeeded to the earldom in 1791, and was the author of The Castle of Otranto and many letters He died Walpole Hugh Seymour English novelist Son of George Walcrosses the river Here, in 1153, Stephen

Wallington With Beddington an It is 3 m S W of Croydon, on the S Rly See BEDDINGTON

Walloon
Race found in certain parts
of Belgium and N France
Their language is a Romance dialect akin
to modern French but possessing affinities
with the Celtic group The Walloons are said to number three millions, and resemble their French more than their Flemish neighbours Many came to England as refugees from the Inquisition They carried on silk weaving and other industries and have a chapel in the crypt of Canterbury Cathedral

Wall Pennywort Herbaceous umbilicus) of the order Crassulaceae The flowers are borne in a long spike of drooping, greenish white cup shaped blossoms Found on dry walls and really health it doubled in on dry walls and rocky banks, it flourishes in Devon and the western counties of England

Wallsend Borough of Northumber-is 4 m. from Newcastle and 272 from London by the L.N.E Rlv The town is situated at the end of Hadrian's Wall, hence its name Pop (1931) 44,582

Wall Street Street in New York It is in the older part of the city, near the end of the island. Here is the stock exchange

Urban district and summer Walmer trom Deal and 82 from London, It is 3 m Deal and 82 from London, on The castle was built in the 16th contury,

Rly The castle was built in the 10th Century, and is the residence of the Lord Warden of the Cinque Ports Pop (1931) 5324

Walney Island and bathing resort of Lancashire It is 10 m long and about a mile wide In the centre is Vickerstown The island is part of the bor-

Walnut Tree (Juglans regia) grown in Britain since the 15th century From 40 to 60 ft in height, the massive stem has a smooth grey bark, which furrows and becomes rugged with age The head is wide and spreading with glossy green leaves, formed of a variable number of lance shaped leaflets. A green fleshy case encloses the seed, or nut, in its hard, wrinkled shell. The unripened fruits are used for pickling, and a fine oil expressed from the matured nut is employed. employed in paint and varnish making The ripe nut of the walnut is a popular dessort fruit, and is much used in the making of sweet-meats It is also pickled for use at the table

The wood is valuable for furniture and cabinet-making, and was once employed for the fashioning of gun stocks

Walpole Horace English man of letters Born Sept 24, 1717, in London, fourth son of the 1st Earl of Orford. he travelled abroad, after leaving Cambridge, until 1741, and sat in Parliament from 1741-68 He bought a villa at Strawborry Hill near Twickenham in 1748, and rebuilt it as a Gothic mansion and museum. He succeeded to the earldom in 1791, and was the author of The Castle of Otranto and many letters. He died March 2, 1797

Auckland NZ, March 13, 1884, and educated at King's School, Canterbury, and Cambridge He served with the Russian Red Cross in the Great War, and was awarded the CBE His first book, The Wooden Horse, appeared in 1909 it has been followed by many others. the favourites probably being Mr Perrin and Mr Trail, The Dark Forest, Jeremy, The Cathedral, Roque Herries and Judith Paris The Cathedral was dramatised In 1932 he published The Fortress

Walpole Sir Robert English states man Born Aug 26, 1676, and educated at Eton and Cambridge, he entered Parliament in 1701 and became Secretary for War in 1708 On the accession of George I, he was appointed Chancellor of the Exchequer Out of office from 1717 to 1721, his handling of the crisis occasioned by the South Sea Bubble (q v ) brought him back to power For the next 21 years he was virtually Prime Minister 21 years he was virtually Prime Minister (though the name was not then in use), directing policy and presiding over the cabinet His Whig principles scoured him the support of the Whig landowners, his policy of peace ensured that of the commercial classes His geniality and commonsense gained him the support of Parliament, which he further secured by bribery He had however, to withdraw his only important measure the Excise Bill of 1733, owing to its principles being misunder stood He was opposed to the War of Jenkins e Ear and to English participation in the Austrian Ear and to English participation in the Austrian Succession War, and resigned in 1742 Created Earl of Orford, he died March 18, 1745

Walpurga English saint Daughter of a king of the West Saxons, she went as a missionary to Germany, and in 754 became abbess of the Benedictine nunnery at Holdenheim After her death, about 780, her relies were laid in a cave, whose rock afterwards exuded an oil regarded as miraculous against disease A church wa built there, and became a place of pilgrimage A church was

Walpurgisnacht is the name given to the eve of S Walpurga s day, which is celebrated on May 1 On this night, which coincided with an old pagan featival, witches were supposed to meet on the mountains, especially the Brocken (q v)

Walrus Large marine mammal It is around head, small eyes, no external ears and a heavy body It is characterised by the prolongation of the upper canine teeth into tusks. The walrus inhabits the N polar regions in small herds. Its flesh is eaten by the Eskimos, and the oil, hide and ivory are commercially valuable

Walsall County, borough and market town of Staffordshire It is 8 m from Birmingham and 121 from London by the LMS Rly The town has long been noted for its saddlery, other industries are the manufacture of hardware and coal mining It sends one member to Parliament Pop (1931) 103 102

Walsingham Town of Norfolk. It is on the River Stiff-key 5 m. from Wells, on the LNE Rly The parish church is a beautiful building, but the place is best known for its ruined priory, dedicated to Our Lady of Walsingham,

a popular shrine in the Middle Ages.
The title of Baron Walsingnam has been held since 1780 by the family of de Grey Thomas.

Walsingham Sir Francis statesman English Born Chislehurst about 1530, and educated Cambridge and abroad, he soon attracted the notice of Burghley, who sent him on various diplomatic missions So successful was he in these, that Burghley recommended Eliza beth to appoint him one of her secretaries of state He was an enemy of Mary Queen of Scots intercepted many of her letters, and had his spies among her entourage His activities probably propared the way for her execution Knighted in 1577, he died in indigence, April 6,

Waltham Holy Cross  $^{\mathrm{Urban\ dis}}_{\mathrm{trict\ of\ Eg}}$ sex, also called Waltham Abbey It is 13 m from London on the LNE Rly The chief The chief building is the church of the old abbey founded here in 1060 The industries are brewing and flour milling Pop (1931) 7116

District of Hert-Waltham Cross fordshire About
13 m from London on the LNE Rly, it Waltham Cross possesses one of the five crosses erected by Edward I to commemorate the resting places of the body of Queen Eleanor on its way to burial in Westminster Abbey

Walthamstow Borough of Essex and L.N.E. Rlys, and is a residential suburb of Greater London It has been a borough since 1929 Pop (1931) 132,965

Walton Izaak 'The Father of Angling" He was born at Stafford, Aug 9, 1593, and after 20 years in business as a linen draper in London, retired in 1644 He married in 1626, Ann Ken through whom he formed many friendships among the Eng he formed many friendships among the Eng lish clergy His most famous work, The Compleat Angler or The Contemplative Man's Recreation, was published in 1653 A later edition (1676) contained Charles Cotton's Second Part of the Compleat Angler Walton also wrote Lives of Donne, Wotton, Herbert and others He died Dec 15, 1683

Walton Heath District of Surrey worth, 23 m from London by the S Riy Walton Heath has a golf course, and at the village of Walton on the Hill is an old church

Walton-le-Dale Urban district of Lancashire It is 2 m from Preston, 230 from London by the L M.S. Rly, and stands on the Ribble It is a centre of the cotton industry and has market gardens Pop (1931) 12,718

Walton-on-Thames Urban dis-Surrey\_ It is 5 m. from Kingston, on the S Rly Besides its attractive position on the Thames, it has a famous golf course Pop 14,647

Walton-on-the-Naze  $_{
m triot}^{
m Urban\ dis}$ seaside resort of Essex It is 7 m. from Harwich and 70 m from London by the L.N E Rly Its importance has been reduced by the inroads of the sea, and in 1798 the parish church was destroyed by the tides It is a popular seaside resort Near is Walton Mero. a noted resort of wild duck Pop (1931) 3066

Waltz Round dance Originating in the 18th century into France, and into England

in 1812 At first much ridiculed it became very there popular, and has survived to the present day, with some variations in time and movement. It is written in I time. The most famous waltz composers were the Viennese composers, Johann Strauss and his brothers

Walvis Bay Bay and port on the Cape Town An area of 374 of m round the bay became British in 1878, and was annexed to Cape Colony in 1884 It now forms part of SW Africa under the Union of S Africa

Walworth District of SE London borough of Southwark The Browning Settlement is in York Street Walworth is said to have been the birthplace of Sir William Walworth (d 1385), the Lord Mayor of London, who, with John Standwick, killed Wat Tyler Wampum Small bead made of shell They are used by the the American Indians as money or as ornaments

Wandering Jew Legendary char doomed to wander until Christ comes again According to one of the old storics, he is thus punished because, as Iesus passed him bearing the cross, he said, "Get on! Faster!" whereupon Iesus replied "I am going, but thou shalt walt until I come again" The legend is embodied in a romance by Eugene Sue and a play by Mr Temple Thurston

Wandle River of Surrey It rises near flows through Mitcham to join the Thames. Its length is about 11 m

Wandsworth Borough of the county of London It covers an area of 141 sq m, and owes its name to the river Wandle on which it stands It has a fine common of 183 acres, and a park of 201 acres opened in 1903 Wandsworth Prison dates from 1851 A bridge built in 1873 provides a roadway to Fulham There is a Huguenot burial ground at East Hill dating back to the time when Wandsworth was a haven for refugees of that faith It sends five members to Parliament Pop (1931) 353,101

River and town of North Wanganui Hiver and town of North Island, New Zealand The river rises on Mt Tongariro and flows into Cook Strait Small craft can sail up some 140 m of its 200 m course The town is situated 4 m from the mouth of the river, 134 m from Wellington It exports local agricultural produce Pop (1932) 27,800

Wangaratta Town of Victoria, Australia It is situated at the junction of the Ovens and King rivers, 145 m by rail from Melbourne The centre of a fruit district, it has an agricultural showground and is the headquarters of an Anglican bishopric Pop 3500

Wanstead Urban district of Essex and LNE Rlys, and lies on the borders of Epping Forest It has a park of 200 acres, with lales and a become sequend by the city. with lakes and a heronry, secured by the city corporation in 1880 Pop (1981) 15,297

Wantage Urban district and market town of Berkshire It is 60 m from London and 26 from Reading, and has a station called Wantage Road on the GW Rly The parish church has some feat ures of great interest. In the market place is a statue of Alfred the Great, who was born The town has an agricultural trade

Pop (1931) 3424

The title of Baron Wantage was borne by Robert Iames Loyd Lindsay He won the V C in the Crimea and was M P for Berkshire, 1855 85

In 1885 he was made a peer, but In 1885 he was made a peer, but his title became extinct when he died. June 10, 1901

Wapiti Deer (Cervus canadensis) found the red deer and has very fine antiers. It frequents low ground or woody districts near marshes The hide makes excellent leather

Wapping District of London It is on the N side of the Thames in the borough of Stepney, and its industries are connected with the docks The Thames tunnel goes from here to Rotherhithe

War Great International struggle which raged nearly all over the Old World between Aug., 1914, and Nov., 1918. It began with Austria's attack on Serbia in July, 1914, following the murder of the Archduke Francis Ferdinand at Sarajevo Russia came to the help of Serbia, and Germany to that of Austria War was then declared on France, as Russia's ally, and the invasion of Belgium brought Great Britain into the struggle Germany and Austria, a little later, secured the aid of Turkey and then of Bulgaria, and these four countries formed the group called, from their geographical position, the Central Powers

I rance, Russia and Great Britain, the three rongest members of the group called the strongest Allies, with Belgium and Serbia on their side, were also joined by Japan and Italy in 1915, and by Rumania in 1916 Another ally was Portugal, and the last to join the group was the United States in April, 1917 The struggle was on an unprecedented scale Probably 30,000,000 men were under arms at the same time, and money and munitions were expended to an

centent litherto regarded as impossible

The main theatres of war were in Europe
where, on the Western Front, France and Great Britain confronted Germany, while on the Eastern Front Austria and Germany confronted Russia The operations on the Italian frontiers may be regarded as an extension of the Western Front, and those in the Balkans, including the Salonika campaign, as an extension of the Eastern one The Turkish Empire afforded two other theatres, the Gallipoli Peninsula and Mesopotamia Elsewhere, attacks were made on Germany's colonial possessions Japan captured Kiao Chow, and those in Africa and the South Seas were taken by the British, including Australian and South African forces, with aid from the French and Belgians Only in German East Africa was the struggle

prolonged or uncertain
Second in importance only to the struggle
on the Western Front was the command of the
sea by the British and Allied fleets Without this the transport of troops and munitions to the various areas would have been impossible The German fleet was penned in its harbours from which it could only emerge occasionally and by stealth for raids on the British coast, and German ports were successfully blockaded. On the other hand, the German fleet was

not destroyed, nor were its harbours attacked. It remained in being even after the indecisive Battle of Jutland, the one major naval engagement of the war, and this fact had an important bearing on the course of the war The submarine campaign conducted by the Germans against Allied shipping caused serious losses and grave anxieties, especially in 1916 and 1917, only narrowly failing to achieve its purpose

Each year of the struggle had its own features

In 1914 the Gormans nearly reached Paris, and the Russians invaded East Prussia and Austria, but both advances were driven back after the opening battles The chief engage ments were on the Marne and the Aisne in the

west and Tannenberg in the cast. In the west 1915 was a year of trench warfare, with trenches stretching from the Belgian coast to Switzerland Attacks were made by the British at Neuve Chapelle and Loos, while the Germans attacked, as in 1914, at Ypres The British landed on the Gallipoli at Ypres Peninsula, but withdrew before the end of the year From India an army was sent to Mesopo tamia, but this campaign also failed, though not so completely as that at Gallipoli Russian successes proved only temporary, and Poland was overrun by Germany Serbia suffered a like fate while Italy's attacks on Austria produced small results

Events of 1916 included the costly British attack known as the Battle of the Somme, the desperate fighting between the French and Germans for the possession of Verdun, and the German conquest of Rumania Russia was weakening, Italy was making no progress, and the British suffered a serious reverse at Kut in Mesopotamin Meanwhile the submarine in Mesopotamia Meanwhile the submarine war was being ruthlessly carried on, and allied

shipping was suffering severely

On land the stalemate seemed complete when 1917 opened The fierce and costly fighting in the west led to no definite result The year's main events were the entry of the United States into the war and the collapse of Russia. which after a last desperate offensive in July, made peace with Germany at Brest Litovak early in 1918 After the Italian defeat at Caporetto, British and French troops were sent to that country The British, however, regained the upper hand in Mesopotamia, and alloable optered upon his successful company. Allenby entered upon his successful campaign

in Palestine

Early in 1918 the Germans in a last offensive. defeated the British at St. Quentin, and drove back the French to Paris as in 1914 but with American armies in the field a marked change was soon seen In a series of battles the Allies drove the Germans from the ground they had held for years in France and Belgium, until they were in a position to invade the enemy country At the same time the Italians defeated the Austrians, the Turkish armies were routed everywhere, and the advances from Salonika crushed the Bulgarians The enemy one by one called for an armistice, and fighting ended with that granted to Germany on Nov 11, 1918 Terms of peace were arranged in Paris and embodied in the Treaty of Versailles and in other treaties See Alsne Arras, Cambrai, Gallipoli, Jutland, Loos, Marne Mons, Nilve Chapelle, Somme, Tannenberg, Versailles

War of 1812 War fought between between The war, declared by Congress, June 18, 1812, was caused by the rigorous exercise on the part of Britain of her rights of search (under Canning's Orders in Council, 1807) over neutral (in this case American) vessels. At sea the Americans were generally successful, but not in the famous duel between the Shannon and the Chesapeake, June, 1813, while three expeditions against Canada were complete failures In 1814 a British force under Ross captured Washington and burnt the White

House, but a second contingent under Pakenham was repulsed at New Orleans in Jan, 1815, by Andrew Jackson with great loss The Ghent (Dec., 1814) did not appear to give the victory to either side

Waratah Australian shrub (Telopea speciosissima) of the order Probeoceae It is one of the national emblems of Australia. The tubular crimson or scarlet flowers are borne in terminal clusters

Waratah Town of New South Wales on the N Rly, 4 m from Newcastle of which it is a suburb, and 107 from Sydney, it is a popular residential area Steel works employ many thousands Fruit is grown in the surrounding district

Waratah Town of Tasmania. About 90 m due W of Launceston and about 120 m by rall, it was formerly the centre for the tin mines at Mt Bischoff, now almost abandoned

Warbeck Perkin Native of Tournal who posed as Richard, Duke of York, the younger of the princes said to have been murdered in the Tower by Richard III Recognised by Charles VIII of France, and supported by the emperor Maximillan, he landed in Kent in 1495 and was accepted at the Scottish court by James IV Surrendering at Beaulieu Hampshire, in 1498, on a promise of pardon, he was imprisoned He escaped, was retaken and hanged at Tyburn, Nov 23 1499

Warbler Insectivorous bird of the fam'ly Sylvidae, related to the thrushes Among British species are the garden warbler (Sylvia hortensis), garden warder (Spiria norcessis). Daktoru warder (Melkophlus or S undata) white-throat (S communis), blackcap (S atri-capilla), chifichaff (Phylloscopus rufus) wood warder (P subilatrix), reed warder (Acroce-phalus streperus) sedge warder (A phragmitis)

Ward Term used for a person under 21 who is in the guardianship of some older person Orphans who have in-herited money are usually wards. See GUARDIAN

Ward in England and Wales a division of a city borough or urban district. It sends representatives to the council, each ward usually electing three members. The wards were created when the boroughs were reformed in the 19th century, except in the city of London where they are old and bear old names, e.g., Candlewick and Portsoken.

Ward Artemus Pen name of Charles Farrar Browne, American humor-ous writer He was born at Waterford, Maine, April 26, 1834 In 1858 he published a descrip tion of an imaginary menagerie in the Cleveland Plandealer He followed this with a series of humorous letters, remarkable for their quaint spelling and the sound sense hidden under a comic style He then spent three years as a lecturer and panorama showman, and coming to England in 1866, died there March 6, 1867

Ward Sir Joseph George New Zealand statesman Born in Melbourne, April 26, 1857, he entered politics in 1887 as Liberal member for Awarua. He held office in the departments of customs, industries and commerce marine, railways was Postmaster-General and Colonial Secretary, 1899-1906. Prime Minister, 1906 12, Minister of Finance in the National War Cabinet, 1915-19, and

represented New Zealand at the Peace Conference, 1919 Created a baronet in 1911 he was again Premier, Dec., 1928-May, 1930 He

dled July 8 1930

Ward Mary Augusta English novelist Born June 11, 1851, at Hobart, Tasmania, in 1872 she married Thomas Humphry Ward She began by writing for Macmillan's, and then wrote a children's story, Milly and Olly, 1881 followed by Miss Brether-Milly and Olly, 1881 followed by Miss Bretherton 1884 and a translation of Amiel's Journal
Intime, 1885 Later she wrote the three novels
for which she is most famous, Robert Elsmere,
1888, David Griere, 1892, and The Marriage
of William Ashe 1905 She founded the Passmore Edwards Institute, now known as the
Mary Ward Settlement, in Tavistock Place,
London, W.C., and died March 24, 1920
Warden witchman or guardian, but
read in England also for a head official of

used in England also for a head official, eg. warden of a university settlement or of a college. The chief officer of the Stannarles of Cornwall has the title of Lord Warden, as has the Governor of Dover Castle. In mediaeval times the lords warden were powerful nobles who guarded the English borders against Scotland and Wales

Wardmaster Officer in the royal missioned officers and others warrant officers Ward Room Room in a battleship officers for meals, etc The captain takes his meals in his own cabin, but the other officers down to the lieutenants use the ward room

meais in his own capin, but the other officers down to the lieutenants use the ward room Junior officers use the run room

Ware Irban district of Hertfordshire It is 2 m from Hertford, on the River Lea and on the L N E Rly There is a Roman Catholic training college, St Edmund's The town has brewerles and brickfields, and a considerable trade in malt. The Great Bed of Ware, formerly at the Saracen's Head Inn, has been removed to Rye House near Hoddesdon. Pop (1931) 5949

Wareham on the Frome 10 m from Poole and 121 from London, on the S Rly The churches of S Mary and S Martin are both old, and in S Mary's is the coffin of Edward the Martyr There are some ancient Bittish earthworks Pop 2057

War Graves who fell in the World War The largest number are in France, others being in Belgium, Italy, Greece, Egypt and Palestine The War Graves are cared for by a permanent commission, and each country has cert acide a sum to provide for their main.

by a permanent commission, and each country has set aside a sum to provide for their maintenance

Warkworth Village of Northumber-land It is 32 m from Newcastle, on the LNE Rly There are extensive ruins of an old castle of the Percys
these include the Lion Tower, the great hall
and the chapel The church is Norman An old bridge crosses the river to Amble, on it is

a fortified gateway

Warminster ket town of Wiltshire
It is 9 m from Trowbridge, stands on the
Wyelye and is sorved by the GW Rly It
is an agricultural centre, and has some small
manufactures The church of S Denys is of
interest Pop (1931) 5176

Warmington Village of Gloveestership

Warmley Village of Gloucestershire, on trom Bristol and 123 from London.

War Museum Collection in London illustrating the Great War It was opened in 1920 at the Crystal Palace, and in 1924 was removed to Imperial Institute Road, S Kensington, and in the winter of 1935-36 to Lambeth Road, S E 1 It includes naval and military trophies and relics, ordnance, small arms and ammunition, ships and other models, works of art and photographs. There is also a library of 60,000

War Office Department of the British Government It is re-It is responsible for the control of the army head is the Secretary of State, who is a politi-cian and a member of the Cabinet. He is assisted by a parliamentary, a financial and permanent secretary, as well as by a large a permanent secretary, as well as by a large military and civilian staff Established in the time of Charles II, it has been several times reorganised, notably in 1903 Originally at the Horse Guards in Whitehall and then in Pall Mall, it is now in a new building in White-hall completed in 1906

Warrant Legal document which gives an act, or alternatively a document giving a person authority to fill an office or function Much of the government of the country was carried out by Royal Warrant in the days when carried out by Hoyal Warrant in the days when the Ling's power was greater and not accur-ately defined. There exist also Judicial Warrants, giving power of arrest and detention before trial, seizure of property, search of houses and buildings. Financial and Commercial Warrants are used by the National Treasury and many big business houses for payment of dividends. Appointments by Warrant are made in the services Officers appointed by warrant and not by commission are termed "warrant"

Warrant Officer Class of officer navy and army They are appointed to their position by warrant In the navy they rank between the commissioned officers and the men, and are electricians, engineers, masters-at-arms, shipwrights, telegraphists, ward-masters, writers and others. In the army, In the army, regimental sergeant majors and master gunners are usually warrant officers There are also warrant officers in the air force.

Warrenpoint Seaport and urban dis-fried of Co Down, N Ireland It is on Carlingford Lough 6 m from Newry Steamers run from here to Liverpool Pop 1900

Warrington County borough and shire It stands on the Mersey, 18 m from Laverpool and 182 from London, and is reached to the county borough and the county borough and Laverpool and 182 from London, and is reached to the county of the county borough and shire to be county borough and shire to be county borough and shire to be county borough and the county borough and county borough and shire it stands on the Mersey, 18 m from Laverpool and 182 from London, and is reached to be county borough and shire it stands on the Mersey, 18 m from Laverpool and 182 from London, and is reached to be county borough and the count by the LMS and CL Rlys The fine old church contains some interesting memorials and the town hall was once a manor Cotton, hardware, soap and glass are the manufactures Pop (1931) 79,322 house among the manufactures

Warrnambool Town and Victoria and seaport It is 166 m by rail from Melbourne It has a good harbour shipping is the chief industry Pop (1931) 8,200

Warsaw Capital of Poland. It is picturesquely placed on the left bank of the Vistula, about 400 m E of Berlin. The religious, as well as the political capital, it has a Roman Catholic and a Greek Orthodox The walls which surround the archbishop city are entered by eleven gates. Among the

many fine churches are the Roman Catholic 1461 Cathedral of S John, dating from the 13th century, the Lutheran Church and those forces

century, the Lutheran Cl of Holy Cross and S Andrew

The Orthodox Alexander Nevski cathedral, a modern building begun in 1894, was pulled down after the Great War The university, which dates from 1861, has a fine library There is a large Jewish colony in the suburb of Praga Warsaw superseded Cracow as the Pollsh capital in 1609 It is an important industrial centre, wool and woollen goods being the chief manufactures There is railway communication with Vienna, Leningrad, Moscow and clsewhere It has two broadcasting stations (1411 M, 120 kW, and 214 3 M, 19 kW) Pop (1931) 1,178,211

Wart Papillary growth of the skin The flat variety occurs mostly in children The long, pendulous variety occurs on the chin, neck, or scalp of adults Warts may appear in crops, suddenly, and as suddenly disappear In adult life they are sometimes due to repeated irritation, and are often of a tubercular or cancerous origin Treatment is by some caustic such as glacial acetic acid,

by some caustic such as glacial acetic acid, applied once daily on the pointed end of a match, or by X-rays

Wartburg Hill in Thuringia It is a castle, until 1918 a residence of the Duke of Saxe Welmar In the original castle, bullt about 1200 was held the famous contest of the Minnesingers described in Tannhäuser In 1821 Luther found a refuge here

1521 Luther found a refuge here
Wart Disease Disease which at
tacks potatoes, affect ing both tubers and leaves Large excrescences, resembling cauliflowers, are formed which gradually become quite black Small blackish warts appear near the eyes of the younger tubors, increase in size and sometimes com pletely cover the potato. The spores may lie dormant in the soil for four or five years.

Wart Hog Genus of African pigs (Pha cochocrus) with two species The boar has four large tusks, and at each side of the face are large wart-like pads P africanus is found over most of the continent P acthopicus in the S E regions

Warwick

Borough and market town
of Warwickshire, also the
county town It is 21 m. from Birmingham
and 98 from London, and is reached by the
GW and LMS Rlys, the latter station
being at Milyerton The chief building is the GW and LMS Rlys, the latter station being at Milverton The chief building is the castle built in the 14th century, one of the most perfect existing specimens of its age A seat of the Earl of Warwick, it possesses a priceless collection of works of art and stands in a large park. S Mary's Church, a fine building with a lofty tower, contains the Beauchamp Chapel with its famous tombs Leycester's hospital an almshouse of the 14th century, is regarded as one of the finest of its kind in the country Two of the town gates, cach with a chapel, still stand Leamington and Guys Cliffe are beauty spots near Pop (1931) 13,459

Warwick by his wifes inheritance For his success at the battle of St. Albans (1455) he was

1461 In 1464, Edward married secretly, in opposition to Warwick, who ultimately was forced into revolt in 1470 he landed from Calais with the Lancastrians, and restored Henry VI to the throne, but the next year Edward returned, and Warwick was killed at Barnet, April 14, 1471

Warwickshire County of England In the centre of the country, it covers 902 sq m Warwick is the country town, but Birmingham is much the largest city Other cities or boroughs are Coventry, Leamington, Rugby, Stratford-on-Avon, Sutton Coldfield, Nuneaton and Tamworth Around Birmingham and Coventry are great industrial areas, but elsewhere the land is pastoral

The country contains the forest of Arden and aroung the places of the country contains the forest of Arden and among its places of interest are Kenilworth, Edge Hill and Meriden The Avon and the Tame are the chief rivers It contains the dioceses of Coventry and Birming ham, and sends four members to Parliament Pop (1931) 1,534,782

The Warwickshire Regiment, the 6th of the line, dates from 1684

It is a royal regiment,

and its depot is at Warwick

Wash The Arm of the North Sea It lies between the counties of Lincoln and Norfolk Its area is about 22 m by 15, but this is continually being reduced as land is reclaimed The Great Ouse, Nen, Welland and Witham flow into the Wash Its ports are Boston and King's Lynn, both somewhat inland.

Washington Urban district of Dur district, it is 6 m from Sunderland, and 260 from London, by the LNE Rly Pop

(1931) 16,989

Washington State of the United extreme N W of the country with a coastline on the Pacific Ocean and Canada to the N, and covers 69 130 sq m Olympia is the capital, but Seattle, Spokane, Tacoma and other places are much larger The chief industries are the growing of wheat and other capitals that the places are the growing or wheat and other capitals. cereals, fruit farming on a great scale, and the rearing of cattle, sheep and pigs Much coal is mined There are large forest areas and a number of reservations for the Indians. The state has a legislature of two houses, and sends two senators and six representatives to Congress Pop (1930) 1,563,396

Washington Capital city of the United States It is 136 m from Philadelphia and 226 from New York, on the Potomac River, and is served by several railway lines The land on which it stands is federal territory called the district Columbia for the columbia for the land on the land on the land of the land on the land of Columbia, 638 sq m. in area, surrounded by the state of Maryland

Washington was founded about 1790 as the seat of government, and contains a great number of public buildings Chief among them number of public buildings Chief among them is the Capitol, finely situated on a hill and famous for its magnificent dome It was begun in 1818 to replace one burned by the British in 1812, and contains accommodation for the two houses of Congress At the other end of Pennsylvania Avenue is the White House where the President lives Washington has four universities—Georgetown, Columbian, George Washington and Howard. The Lincoln Managing was gracted in 1922 the Washington the Washington and Howard. has four universities—George Washington and Howard. The Lincoln George Washington and in 1922 the Washington of Memorial was erected in 1922 the Washington Monument was begun in 1848 Many of the inhabitants are in the public service and rewarded with the captaincy of Calais At ton Monument was begun in 1848 Many of Northampton (1460) he took Henry VI the inhabitants are in the public service and prisoner, placing Edward IV on the throne in

are concerned chiefly with printing and publishing and the preparation of foodstuffs Across the Potomac, crossed by a fine bridge is the Arlington National Park and the national cemetery Pop (1931) 486,869

Washington George American soldier and statesman Born near Fredericksburg, Virginia, Feb 22, 1732 he inherited the estate of his half-brother at Mount Vernon in 1752 and became a prominent tobacco planter Between 1753 and 1758 he saw military service against the French Elected a member of the House of Burgesses in 1758, in 1770 he came to the front as a champion of colonial liberties As a Virginian representative to the Continental Congress of 1774 he did not favour American independence, but in 1775 he was chosen to command the colonial forces in 1776 he succeeded in occupying Boston, but was driven out of New York. Victories at Tronton and Princeton, however, gave new life to American resistance Defeated in 1777 at Brandywine Creek, he wintered at Valley Forge, fought an indecisive battle at Monmouth in 1778, and in 1781 received the surrender of Cornwallis at Yorktown In 1787 as representative of Virginia he presided at the Federal Convention in Philadelphia and in 1788 was chosen first President of the United States Cautious and painstaking as President, he was re-elected against his will in 1792, and in 1797 retired to his estates, where he died Dec 14, 1799

Washington Booker Taliaterro Negro born on a Virginian plantation in 1858, the son of a slave, and educated at the Hampton Institute where he became a successful teacher In 1881 he was selected as the head of Tuskegee College, Alabama Beginning in a broken-down shanty, at the end of 20 years he saw the institute firmly established with over 1000 pupils He died Nov 14, 1915

Washington treaty of International treaty signed at Washington At the invitation of the United States a conference met at Washington towards the end of 1921, and was attended by representatives of the United States, the British Empire, France, Italy, Japan, the Netherlands and Portugal It dealt mainly with two subjects, China and the limitation of naval armaments Great Britain, the United States, Japan and France, signed a treaty on Dec 13, 1921, in which they agreed to respect mutually "their rights in relation to their insular possessions and insular dominions in the region of the Pacific Ocean "On Fob 10, 1922, those four powers and Italy signed a treaty which limited the size of their navies The United States kept 18 capital ships, the British Empire, 22, and Japan, 10 In future no capital ship was to be larger than 35,000 tons

Wasp hymenopterous insect of the Vespudae and other families, including both social and solitary genera. Social wasps of the genus Vespa are represented in Britain by a half dozen species. The colony is begun by a fomale (queen) of the previous summer's brood, who lays eggs in a few cells made of pulped wood fibre, situated in a burrow made in the ground. The colony is added to, and in due course males and workers appear, then females nurtured in larger cells, who are the "queens" Cortain of the latter survive the winter and carry on the race.

Wassermann reaction Bacteriologiinfection It is based on a method, developed earlier, which demonstrated the presence in blood serum of compounds produced in blood for protective purposes against invading germs It was adapted by Wassermann specially for detecting invasion by the germ of syphilis

Wastwater Lake of Cumberland It the wildest of the English lakes On one side the Screes rise almost perpendicularly from the water To the N is Wasdale Head, a great centre for climbers

Watch Portable timepiece It conwhich contains a main spring and apparatus for winding, a train of wheels with hands and face, an escapement, and a balance wheel and hair-spring The first watch was made by Peter Hele in Nuremberg about 1500

Watch Portion of time, during which sailors are on duty The first watch extends from 8 PM to midnight; the middle watch from midnight to 4 AM, the morning watch from 4 AM to 8 AM; the forencon watch from 8 AM to 12 noon, the afternoon watch from 12 noon to 4 PM, the first dog-watch from 4 PM to 6 PM, and the second dog-watch from 6 PM to 8 PM

Watchet Urban district and port of Somerset It is 17 m N W of Taunton and 160 m from London by the GW Rly, and is situated on the Bristol Channel There is a harbour for the fishing Pop (1931) 1936

Water compound of hydrogen and oxygen, with the chemical formula H.O Whon pure it is clear, tasteless and chemically neutral Its freezing and boiling points under normal atmospheric pressure are used as standards in measuring temperature, defining 0°C (32°F) and 100°C (212°F) respectively. It reaches its maximum density at 4°C and expands on freezing (which causes the bursting of pipes), while when converted into steam it expands about 1700 times. It is a poor conductor of heat and electricity, and has the highest known specific heat (qv) Water covers 72 per cent of the area of the earth, forms two-thirds by weight of the human body, and is indispensable to the existence of life. Apart from the many uses to which it is put by man, and its rôle in promoting the growth of vegetation, it is, as water vapour, an important constituent of the atmosphere. By the pressure exerted when freezing it disintegrates rocks, and as rain, rivers and sea it erodes land

Apart from the many uses to which it is put by man, and its role in promoting the growth of vegetation, it is, as water vapour, an important constituent of the atmosphere By the pressure exerted when freezing it disintegrates rocks, and as rain, rivers and sea it crodes land surfaces It is harnessed for the development of water power, and as steam is the basis of the steam engine, its virtual incompressibility and its power as a liquid of transmitting pressure equally in all directions are adaptable for use in engineering It has been adopted as the standard for measurements of specific gravity and specific heat, and is used universally as a solvent Sce Ice, Steam, Water Power, Hydraulics

Waterboatman (or Boatfly) Insect nectidae, found in ponds in Great Britain It swims upside down, propelling the body through the water with long strokes of its hind legs, which, when still, extend sideways like oars in a boat The insect lives on water larvae and worms, and lays its eggs in the stems of water-plants.

Water Bug Name loosely applied to hemipterous insects which are common in ponds. These include the water boatman or boatfly (q v), water scor pion (q v), and the water measurers or skaters

Water Chestnut (or Jesuit's nut) (Trapa natans), of the order Onagraceae, a native of Central Europe The four petalled white flowers are borne in the floating leaves, which form a rosette on the stem.

Water Colour Method of painting Water colour paints are mixed with some adhesive substance and applied with water and are supplied either in cakes or in tubes The art is of considerable antiquity and is still the most popular method antiquity and is sain the most popular method for sketching and other rapid work. Moreover more delicate effects can be obtained in water colour than in oils. Of the British school M. W. Turner may be regarded as the supreme master in water colour, with David Cox and John Sell Cotman as his successors.

Water Cress Edible perennial aquawater Cress to herb (Radicula nasturium) of the order Cruciferae It in habits brooks and streams in Europe and parts of Africa and Asia, and is cultivated shallow in beds fed by running water for use

Waterford County of Munster, Irish free State. In the S of the country, it covers 708 sq m, and has a coastline of about 50 m Waterford is the county town. Other places include Dungarvan, Youghal and Lismore The chief rivers are the Sulr and the Blackwater The surface is hilly, but the soil is not unfertile. Butter and cover are produced and the fisheries. Butter and eggs are produced, and the fisheries are valuable Pop (1926) 51,915

Waterford Borough and river port of Waterford, Irish Free State also the county town It stands at the junction of the rivers Suir and Barrow, 94 m from Dublin by the GS Rlys There are two cathedrals Reginalds Tower is said to date from the 10th century The industries include shipping, become curling and a trade include shipping, becon curing and a trade in livestock and dairy produce. At one time the city was famous for its glassware. Pop. (1926) 26.647

The title of Marquess of Waterford has been borne by the family of Beresford since 1789 The eldest son of the marquess is called the Earl of Tyrone

Water Gas steam through forcing descent coke or anthracite Carburetted it is mixed with coal gas for lighting, and it is also used as furnace fuel

Water-Glass Popular name silicate is made by fusing together soda ash and clean sand under strong heat. It is so called be cause, though it looks like glass, it is soluble in water. Its most common use is for pre-

Waterbuck Type of antelope (Cobus the town hall, Manchester, University College (Liverpool, St. Paul's School, London, Liverpool, St. Paul's School, London, L dled Aug 22, 1905

> Water Hyacinth Percental South aguatio plant (Eichhornia crassipes) of the order Pontederiaceae It is a native of tropical regions, floating on the rivers, and is grown as a hot house plant. The handsome violet flowers appear in clusters

Water Lily Aquatic plant of the order Parate to tropical regions Mostly with broad large floating leaves, and red, yellow or white flowers, they range from the common British white (Nymphaea alla), and yellow (Nuphar luteum) lilies to the giant Brazilian lily (rectoria regia), with leaves over a yard across

Waterloo Village of Belgium It lies about 11 m to the S of Brussels and gives its name to a battle fought there between the British and their

fought there between the British and their allies, and the French on June 18, 1815 This was the culminating engagement in a campaign often called the campaign of Waterloo The army of Napoleon, who had escaped from Elba, came into touch with the allied forces near Brussels On the 16th there were two indecisive battles at Quatre Bras, where a mixed force of Dutch, Belgians and British drove back the French, and at Ligny, where the Prussians were forced to retreat, thus widening the gap between them and the British. The British under Weilington fell back to Waterloo, followed by the French, in the battle which began on 18th, the British held the Chateau of Hougoumont, in spite of held the Château of Hongoumont, in spite of furious attempts to dislodge them, and the British infantry made a desperate stand against the French cavalry charges The arrival of the Prussians under Blücher turned the scale, and the French took to flight The battle finally ended Napoleon's attempt to regain the French throne, he surrendered to the British on board the Bellerophon, July 15, 1815, and was sent a prisoner to St. Helena.

Waterloo Station in London, On the S side of the river, opened in 1848, and until the changes of 1921 was the headquarters of the L & S W line It was rebuilt in 1921 22, and with its 21 platforms is the largest of the London termini. There are connections by tube railways to all parts of London parts of London

Water100 Suburb of the city of It includes Zelland and Rosebury, and has Pop 12,500

Waterloo Bridge Bridge over the London. It connects Wellington Street, Strand, to Waterloo Road. Built from designs by John Rennie, it was opened in 1817, and named in memory of the battle It consists of nine arches In 1924 the bridge began to give way, and in 1925 it was closed for repairs, a temporary hydre being bull, alongside for cause, though it looks like glass, it is soluble in water its most common use is for preserving eggs for domestic use

Waterhouse Alfred English archi leverpool, July 19, 1830, and practised first in Manchester and then in London He designed the Natural History Museum, S Kensington.

Sive way, and in 1925 it was closed for repairs, a temporary bridge being built alongside for the traffic. It was proposed to build a new bridge, and the London Country Council and

Waterloo Cup Chief coursing event rics are often coated with rubber, naphtha being used as the solvent Proofing with oil The race for it is held each year in Feb., on is another common method. The process the flats at Alicar near Liverpool It dates from 1836 The Waterloo Purse and the Waterloo Plate are other coursing events

Water100 -with-Seaforth Urban district and seaside resort of Lancashire It is on the Merroy 4 m N W of Liverpool and 207 from London by the L M S Riv Pop (1931) 31 180

Water Mark Any distinguishing de-substance of a sheet of paper It is done when the paper is in a wet and pulpy condition Some of the old water marks are very elaborate designs. They serve, especially in the case of paper used for bank and currency notes, as a protection against forgery

Water Mite Tiny aquatic parasite (Hydrachna) of the order Acarina It lives on water-beetles and similar insects

Water Ousel (or Dipper) Bird (Cinclus aquaticus) of the Cincludac common in parts of Britain It is brown to slate coloured above, and white beneath The length is 7 in The water ousel frequents quick running streams, and dives to the bed to seek its food, aquatic insects and their larvae—Its feet are specially adapted to grip stones

Water Polo Ball game played by consists of propelling an inflated rubber ball into a goal The pitch is 30 yds long by 20 yds wide About seven minutes each way are played, and the players on each side are 3 forwards, 1 half, 2 backs and 1 goalkeeper A London Water Polo League was formed in 1889

Water Power from moving or falling water Water has been used for many centuries to drive the wheels that provide power for mills where flour, paper and other commodities are produced, and many of these mills may be seen on the banks of rivers in England

The introduction of electricity led to a great increase in the use of water power, as it was found that it could be employed to drive turbines to generate electricity In this way the water power, hitherto only In this way the water power, hitherto only local in its results, can be made to provide power at great distances from its site. The power from the falls at Niagara, for instance, is taken great distances, and that of the Shannon is used over most of the Irish Free State. The power is obtained from the force of the telling water and is increased by foreign this falling water and is increased by forcing this through a narrow aperture. The electricity through a narrow aperture The electricity generated is used for lighting and power

generated is used for lighting and power purposes

It is estimated that the world's developed water power is 34,575,000 h p, and the potential supply is 459,000,000 h p To this total the United States with 13,571,530 and Canada with 4,556,000 are the largest contributors Other countries in which a good deal of water power is used are Italy, 2,300,000, France, 2,000,000, Norway, 1,900,000, Switzer land, 1,850,000, Sweden, 1,350,000, Germany, 1,100,000, and Spain, 1,000,000 The British Isles has 250,000 developed, and a potential supply of 850,000 h p

Treating of a sur-

is another common method The process called rain-proofing depends on the deposition on the fibres of the fabric of an insoluble precipitate of some such chemical as alum. A special close weave is employed.

Water Scorpion Hemipterous increa) of ponds and other stagnant waters. It has a flat, thin body, furnished with a tall-like breathing tube, which is protruded from the water when the insect takes in air This tube and the large curved, pincer-like forelegs give it its name

Watershed Ridge of land separating the head-waters of two different river systems In mountainous areas the watershed is generally well defined, but not in comparatively flat tableland, where headstreams of two or more distinct rivers may arise in one common swampy area.

Water-Snake Popular name of several different aquation serpents (1) A harmless colubrine scrpent of the Tropidonolus or related genus, found in America and Europe (2) An E Indian freshwater, fish-eating homalopsoid serpent (3) A wart snake (4) A sea snake or hydrophid.

Waterspout Meteorological phenomenon occurring at sea, associated with violent cyclonic storms of very small diameter From the lower surface of a central cloud, a funnel shaped projection central cloud, a funnel shaped projection approaches the sea, a mass of spray from the sea becoming involved, forming a column which is, however, composed principally of raindrops

Water Thyme Water weed (Elodea canadensis), with long jointed stems which root at every joint It increases rapidly, causing congestion in streams and canals

Waterville City of Maine, USA. It about 20 m. from Augusta on the Kennebec River Water power from falls on the river is used in manufacturing cottons and woollens The city is the seat of Colby College, a Baptist institution. Pop (1930) 15,454

Water Violet Water plant (Hottonia Primulaceae The long roots are suspended in the water and the thick branching stems are tutted with feathery leaves which are submerged The flower stem rises about a foot above the water hearing whorks of salverabove the water bearing whorls of salver-shaped flowers, white or lilac, with a yellow

Watford Borough and market town of Hertfordshire It is situated on the Colne, and is served by the LMS, Mot., and Bakerloo Rlys and numerous bus and coach services A large residential district, its parish church contains memorials of the Essex family There are chocolate and cocoa factories and other manufactures, and brewing, milling and printing works The London milling and printing works The London Orphan Asylum is situated here Pop (1931) 56,799

land, 1,850,000, Sweden, 1,350,000, Germany, 1,100,000, and Spain, 1,000,000 The British Isles has 250,000, developed, and a potential supply of 850,000 hp

Waterproofing face so as to render tresistent to the penetration of water Fab
Wath-upon-Dearne Market town and urban district of Yorkshire (WR) It is 7 m. SE of Barnsley, and 164 from London by the Coalfield and is served by a canal. Pop. it resistent to the penetration of water Fab-

Watling Street Roman built roal Dover to Wroxeter It is in some places used

Watson Sir William English poet He was born at Burley in Whartse dale, Aug 2, 1888 In 1880 he published a volume of poems called The Prince's Quest and between 1890 and 1928 a considerable quantity of verso, including Wordsworth's Grace, For England Sable and Purple and The Muse in Exile Collected editions of his works appeared in 1898 and 1906 He was knighted in 1917 and

a national presentation was made to him in 1930 He died on Aug 12, 1935 Watt James English inventor He was born at Greenock Jan 19 1736 going in 1754 to Glasgow where later he was appointed mathematical instrument maker to the university His experiments gradually led to the evolution of the modern steam engine his crowning achievement being the invention of the governor in 1774, in partnership with Matthew Boulton, he produced an engine vastly superior to Newcome's pumping engine

Wattreau Antoine French painter He Oct., 1684, and studied at the Academy, of which he became a member in 1717 He excelled as a painter of pastoral scenes, fête galantes etc., and was supreme in both design and colour He died July 18, 1721

Wattle Twig, flexible rod or hurdle By plaining them together the twigs are made into fencing At one time they were used for building houses known as wattle and daub buildings

Another wattle is one of the acacias that grow in Australia Sprigs of it are worn on

Australia Day

The wattle bird is found only in Australia It is named from the wattle or fleshy excres cence seen under the throat

Watts George Frederick English painter and sculptor He was born in London, Feb 23, 1817, spent three years studying in Italy, and exhibited at the Royal Academy in 1837 His 'Caractacus led in Triumph Through Rome" won a prize of £300 in 1843 A host of famous people sat to him and there is a collection of his symbolical #300 in 1843 A host of famous people sat to him and there is a collection of his symbolical pictures in the Tate Gallery His statuary includes 'Physical Energy,' a replica standing in Kensington Gardens He received the Order of Merit in 1902 and died July 1, 1904

Watts Isaac English hymn writer and Howas born in Southamp ton July 17, 1674 educated in London and in ton July 17, 1874 educated in London and in 1702 became minister of the Independent Church in Mark Lane In 1712 he went to stay with Thomas Abnev at Theobalds, and remained with the family until his death, Nov 25, 1748 His numerous hymns include "O God our help in ages past" 'When I survey the wondrous cross" and "Jesus shall reign where or the sun"

Wave Disturbance of equilibrium in a body or medium, having motion and direction in itself, but not involving the particles of the medium permanently in its forward motion. Thus in water the wave progresses, but the water itself has an oscillatory notion only the energy communicated to and producing the wave being yielded up when the wave reaches the shore. The oscillatory motion may be along a straight line or (usually) a closed curve, and may be perpendicular to the

direction of motion of the wave (as in wireless waves in which the electric and magnetic com ponents are also perpendicular to each other) or in the same direction (as in sound) or a combination of both (as in surface waves in liquids) Sound waves travel through matter as a medium, wireless, heat, light waves the gamma rays of radium, X rays and cosmic rays have been conceived as waves travelling through the other (qv) having the same form and velocity, but differing in wave length from metres to a ten millionth of a millimetre

Wave motion can be represented graphically by an undulatory line, varying in form with the nature of the wave and wave length (?) is the distance from one crest to the next on this line being connected with the velocity of the waves (v) and their frequency (n) in corresponding units by the formula  $v=n\lambda$ . In broadcasting each station has a definite wave length assigned to it by an international body LIGHT

Waveney River of Last Anglia It part of the boundary between this county and suffolk passing by Bungay It is navigable for the lower part of its length of 50 m and flows into the estuary of the lare

Waverley Abbey Ruined abbey surroy, on the River Wey It was the earliest Cistercian house in England being founded by William Gifford, Bishop of Winchester, in 1128 Little now remains of the original buildings The house was dissolved in 1536 Sir Walter

Scott is thought to have taken the name of his first novel from Waverley Abbey

Wax Word used originally for beeswax, but now extended to other substances having similar properties. At ordinary stances having similar properties. At ordinary temperatures, waxes are more or less hard, but they become soft when warmed. They are insoluble in water, slightly soluble in alcohol, and readily soluble in ether, chloroform and in the fixed and volatile oils. They are either vegetable or mineral waxes, and include sper-macett derived from the sperm whale Chinese wax, and paraffin wax obtained from mineral oils. Waxes are used in the making of can

Waxes are used in the making of all diles ointment polishes, etc

Waxbill and parts of Asia They have wavy translucent, often vividly-coloured bills

Wax Flower Australian climbing evergreen shrub (Hoya carnosa) of the order Asclepiadaceae It has a twining stem fleshy and somewhat oval leaves and pinky white, waxy flowers It is largely grown as a hot house plant.

Wax Palm Palm tree (Corupha cert fora) of tropical S America

Its trunk is coated with wax which is removed and used for candles etc Another wax palm is Ccroxylon and cola, a native of Colombia.

Wax Tree (or American Gamboge) of tropical S America, also known as the gutta gum tree It exudes a resinous juice with similar properties to that of Garcinia, the gamboge of Siam It belong to the order Hypercaceae, and is cultivated as a hot house plant becomes plant, bearing yellow flowers in clusters

Waxwing Bird (Ampelis garrulus) of the in the extreme north of Europe and is a winter visitant to Britain. It is about 71 in. long,

with a short, stout body. The plumage is national wealth of Great Britain in 1926 was brownish-grey and crested head and throat are estimated at about 20,000 million pounds black, the wings and tail black with white and vellow marking. The secondary wing feathers and sometimes the tail feathers have wax-like vermilion tips

Waxwork Efficy executed in wax, usually an imitation of a real person In the 18th century exhibitions of wax figures of famous or notorious personages became popular at fairs or holiday resorts Madame Tussaud's exhibition in London originated in Paris in 1780

Wayland the Smith In German mythology, a sort of domi god, the son of Wade, the sea giant. He was apprenticed to Mimir, the famous smith, and became a master craftsman under the tultion of the dwarfs Wayland Smith's caye, in Berkshire, mentioned in Kemlworth, is, in English folk-lore, his forge

Wayleave Legally a permission granted by the owner of property. It allows a person to go upon land for a particular purpose and at reasonable hours is chiefly used in connection with the mining of coal and the payment for it approximates to a royalty (q v)

Ways and Means Committee of Term used in parliamentary procedure When the House of Commons is dealing with the methods of raising money proposed by the Chancellor of the Exchequer, it is a committee of ways and means At such times the Chairman of Committees, not the Speaker, presides

Waziristan Mountainous region of the Province of India Under British influence, it is divided into three parts—the Tochi Valley and northern and southern Waziristan The Waziri tribes are flerce and warlike, and it was not until a motor road was driven through their territory after the World War that order was continuously maintained

Weald The Name of a district in Kent and Susser It is the remains of a great forest known as the Andredsweald, in which iron ore was smelted in Roman and Anglo Saxon times and earlier It lay between the North and South Downs and stretched through Susser to the eastern coast of Kent. through Sussex to the eastern coast of Kent The name is now confined to the eastern part of Sussex and the western part of Kent.

of Sussex and the western part of Kent.

Wealdstone Urban district of MiddleLondon, by the L M S Rly and is a residential
district Pop (1931) 17,001

Wealth Riches or material possessions
ombracing only such objects as have utility
and can be exchanged The creation and
distribution of wealth is one of the main
subjects with which political economy deals,
and the first great book thereon is Adam
Smith's Wealth of Nations (1776) National
wealth depends ultimately on intangible and
unestimable assets such as sunshine, rainfall,
rivers, etc., apart from its tangible assets But rivers, etc , apart from its tangible assets But these cannot be taken into account in estimating a country's resources There are four general methods of computing national wealth—(1) from data gained from the taxation of incomes, (2) from annual taxation of capital, (3) from taxation of capital at intervals, (4) by a method of inventory None of these methods, however, is free from imperfections The

Wear River of Durham It rises in the Pennines and enters the North Sea at Sunderland Barges can go up as far as Durham The Wear flows through some very beautiful scenery and is 65 m in length

Weasel Small carnivorous mammal (Mustela nivalis) of the Mustelidae. It is related to the polecat, marten, ote It is related to the polecat, marten, ote It is a nativo of Europe, parts of Asia, and N America The body is about 6 in long, the pelt being reddish-brown above and white below It proys on rats, mice and small game In more northern regions the winter cost is white coat is white

Weather State of climate at a given total of the results of temperature, pressure, rainfall, winds, condition of the atmosphere, relative presence or absence of clouds, duration of sunlight, etc Weather forecasts are made from reports received from meteorological stations, home and foreign These enable the probable future weather to be predicted with a varying degree of accuracy ISOBAR, METEOROLOGY Sec CLIMATE,

Weatherboard covering Protective outer οf building It is usually specially adapted to shed water by forming lapped joints with the boards above and below. The word is also a nautical term denoting that side of a vessel which is towards the weather and wind

Weathercock Wind indicator usually it consists of a thin piece of metal or wood affixed to a vertical rod on which it is pivoted by any change of wind Designs are various, but the most popular one is a cock, hence the term weathercock

Weaver River of Cheshire Rising in the hills near the borders of Shropshire it flows N to join the Mersey near Frodsham and between there and Northwich, it has been connected with the Trent and Mersey Canal Nantwich and Northwich stand on it and its chief affluent is the Dane The river is about 50 m long

Weaver Bird Small bird which congrass Some, such as the Philaterus of S Africa, make a common nest in which each pair has a separate cavity with its own entrance Others make separate bottle shaped nests some adding clay to increase the weight and check the swaying

Weaving Act of interlacing threads so essential to the making of all fabrics, whether tapestry or material of silk, linen, woollen or cotton. The weaving is done on looms, the early looms were worked by hand, but to day power looms are practically universal.

Weaving was practised in China, Egypt and other countries of antiquity, as it was later in Greece, where the classic instance is Homer's references to Ponelope weaving and un-weaving her threads in the Middle Ages the weavers of the Netherlands became famous and greatly influenced the craft in England, Germany and elsewhere

Webb Sir Aston English architect He was born in London, May 22, 1849 and soon came to the front in his profession He designed the Victoria Memorial, the Admiralty Arch and the new front of Buckingham Palace He also restored the

1841 46 He died at Walmer Sept 14, 1852, and toas and was buried in St Paul's Cathedral See is added WELLESLEY, PENINSULAR WAR

Wellingionia (Sequora gigantea) of California of the order Contiguae The timber is hard red and close-grained

Wells City and market town of Somerset from London, on the GW Rly The chief building is the cathedral of the diocese of Bath and Wells, famed for its west front, its lady chapel its crypt and its curious clock, dating enapel its crypt and its curious clock, dating from the 14th century. The choir and chapter house are very fine. S. Cuthbert's is a notable church. The bishop's palace is surrounded by a moat and the deanery is a fine old house. The Vicar's Close, with a chapel at the top, is picturesque, and in the recreation ground is the bishop's barn of the 15th century. Pop. [1021]. 4823 (1931) 4833

Wells Urban district and scaport of Vells Norfolk It is 23 m from Kings Lynn and 147 from London, by the LN is Rly There is a harbour and a little shipping Pop (1931) 2505
Wells Herbert George English writer Born at Bromley, Kent, Sept 21, 1866, after graduating from the Royal College of Science in 1888 be taught until in 1893

of Science in 1888 he taught, until, in 1893, he became a journalist, publishing his first novel The Time Machine, in 1895 His work falls roughly into three classes Of his novels, Ripps (1905) is acclaimed his masterpiece. In this, as in Love and Mr Lewisham (1900) and The History of Mr Polly (1910), he describes the romance of the lower middle class Other major novels are Tono Bungay (1909), Mr Brilling Sees It Through (1916) and The H orld of W'illiam Classold (1926) His scientific romances include The Invisible Man (1897). The Food of the Gods (1904) The Island of Doctor Moreau (1896) and The First Men in the Moon (1901) Among his general works, the more important are First and Last Things (1908), New Worlds for Old (1908), The Open Conspiracy (1928), The Outline of History (1920), The Work Wealth and Happiness of Mankind (1932) and The Shape of Things to Come (1933) As a novelist he is open to the criticism that he fails to shed the robe of the reformer for that of the untrammelled artist, while his work in general suffers from hasty judgment, impatience at the gradual nature of change and a tendency to override the convictions of others. Nevertheless he has exercised a pro found influence on his generation as an able exponent of the application of scientific method on a universal scale

Welsh Harp Reservoir near Hendon those of two inns new and old on the Edgware It is a popular pleasure resort

Welshpool Borough and market town of Montgomeryshire An agricultural centre, it is 15 m south of Oswestry and 172 from London by the GW Rly 1'0p (1931) 5637

Welsh Poppy Hardy perennial (Vicenopsis cambrica) The delicate pale green segmented leaves grow in a tuft from the root, and the pale yellow or orange flowers rise on tall erect stems

Welsh Rabbit Cheese dish, wrongly termed rarebit The

and toasted Frequently a little beer or stout

Welwyn Rural district of Hertford It is situated 5 m from Hatfield, on the LNE Rly, 22 m from London The Garden City, planned in 1920, between Welwyn proper and Hatfield, is a progressive community with its own station on the LNE Rly Welwyn is now a centre of the film industry Pop (1931, Garden City) 8585

Wem Market town and urban district of Shropshire It is 11 m. from Shrewsbury, on the L M S Rly The parish ohurch has a Norman tower The chief industries are a trade in cattle, milling and tanning Pop (1931) 2157

Wembley It is 8 m N W of London, on the L MS and Underground Rlys It is 8 m residential district, but it is best known for its exhibition grounds and stadium Here the British Empire Exhibitions were held in 1924 and 1925 and in the stadium, which holds 125,000 people, the finals for the association football cup are played Pop (1931) 48,546

Wemyss Parish of Fifeshire, Scotland which includes the villages of East and West Wemyss, Buckhaven, Methil and Innerleven It is on the Firth of Forth Wemyss Castle, deriving its name from the archaic caves, or weems, in the neighbourhood, was the scene of the first meeting between Mary Queen of Scots and Darnley Pop (1931) 26,619

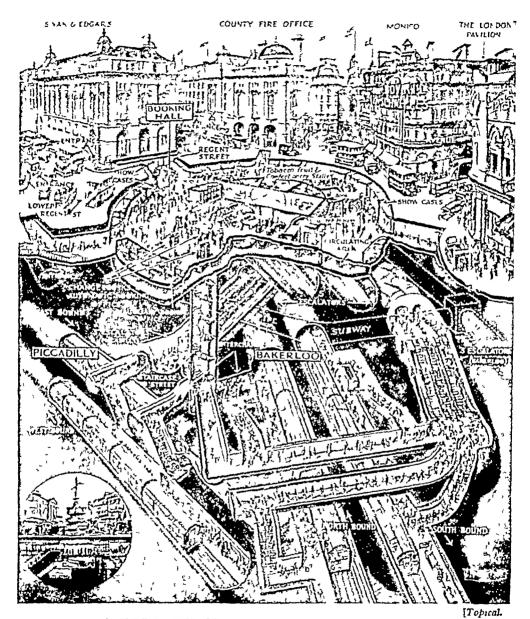
Wemyss Earl of Title of the Scottish owners of the "schire' of Wemyss in Fifeshire since the 12th century There was a Sir John of Wemyss and Methil There was a Sir John of Weinyss and Rechnin 1239, and a Sir John who was created a baronet of Nova Scotia in 1626, Lord Wemyss of Eloho in 1628 and carl in 1633 Hugo Richard Wemyss Charteris (b 1857) the 11th earl succeeded to the title in 1914 The earl's eldest son is called Lord Eleho

Wenceslaus German King and King of Bohemia The son of the Emperor Charles IV, he was born at Nuremburg Feb 26, 1361 Elected German King in 1376, he became paramount in Germany and Bohemia on his father's death in 1378 He disregarded German affairs and ruled Bohemia will be the resulted with the ruled Bohemia and ruled Bohemia will be the ruled be the ruled below the ruled with the ruled Bohemia and ruled Bohemia and ruled below the ruled below the rule well, but quarrelled with the nobles. In 1394 he was captured but, released under threats from the German princes, falled to restore peace in Germany and was declared deposed in 1400 Quarrelling with his brother, Sigis mund of Austria, he was captured in 1402 and mund of Austria, he was captured in 1402 and held prisoner for two years, after abdicating in Bohemia In 1404, however, he was released and regained his authority in Bohemia. His later years were disturbed by the troubles caused by the death of John Huss He died at Prague, Aug 16, 1419

Wendover Market town of Bucking-hamshire It is 33 m

VV endover hamshire It is 33 m from London, on the L N E Rly The parish church has been restored and there are some half timbered houses Until 1832 Wendover sent two members to Parliament

Wenlock Borough of Shropshire It is on the Severn, 14 m. from Shrewsbury and 148 from London, with a station—Much Wenlock—on the GW Rl; The guildhall dates from the 16th century There are remains of an abbey The borough included Mach Workels. Models and Breakly chese is grated, mixed with butter and a includes Much Wenlock, Madeley and Broseley little milk seasoned spread on buttered toast It has an agricultural trade and around are



A TRIUMPH OF MODERN ENGINEERING

The new tube station at Piccadilly Circus, showing the busy network of tunnels, tubes and escalators under the heart of the West End of London.

coal and iron stone mines Wenlock Edge is a famous beauty spot Pop (1931) 14,152

The title of Baron Wenlock has been borne since 1839 by the Family of Lawley The Wenlock series is the name given by geologists to the middle division of the Silurian rocks

Wentworth English family tracing its descent from William Wentworth of Verlebber who died 1208

Wentworth of Yorkshire, who died 1308 most important members were Strafford and Rockingham (q, r) The barony of Wentworth held by the family descended from 1667 in the female line and so passed by marriage to the Earls of Lovelace till 1906, when it again passed to the female line

Wentworth Woodhouse Fitz Fitzwilliam Yorkshire (WR) about 5 m from Rotherham Originally the home of the great Earl of Strafford, it was rebuilt about 1740, and added to in 1806 It is a magnificent building with a south frontage of 660 ft and has a deer park of 1500 acres

Werewolf Mythical being in folk-be a person transformed into a wolf in form and appetite, either temporarily or permanently Sometimes the transformation was supposed to be the result of witcherst, in other cases "the wolf" was a form assumed at will generally to satisfy the craving for human flesh

Wergild Among the Teutonic races, the value set upon a man's life, or the amount payable by the family of a manslaver to the family of the slain, to avoid a
blood feud It varied in value from 40 pence
for a slave to £24 for a freeman, and proportionately more for a noble or king

Weser River of Germany, formed by a
union of the Fulda and the Werra
at Minden It is 300 m long and flows mainly
north until it enters the North Sea as an
estuary It is a busy commercial highway as
for as Bromen, and canals connect it with other

far as Bremen, and canals connect it with other waterways Bremerhaven is the great port near its mouth The Aller is its chief tributary

Wesley Charles. English hymn-writer and was educated at Westminster School and Christ Church, Oxford He helped his brother, John, to found the Methodist movement. In 1735 he went to Georgia but returned to England in the following year He took part in evange-listic work, but is known to day as one of the greatest hymn writers of the 18th century His best known hymn is Jesus, Lover of my Soul He died March 29, 1788

Wesley John English divine He was his father was rector, on June 17, 1703 After an education at Charterhouse and Christ Church, Oxford, he took orders in 1725 Returning to Oxford in 1729 as tutor in Lincoln College, he joined a group of undergraduates who had received the nickname of "Methodists" because of their strict adherence of the religious way of life. On his return from a to a religious way of life On his return from a mission to Georgia, he took the lead in a similar society which met near Moorfields, London and began his campaign of field preaching, which continued unbroken for half a century He gathered his followers into "classes" under the direction of "leaders" and placed them under the government of a Conference of Ministers At his death, March 2, 1791, they numbered a hundred thousand

Methodist Church Non-conformist denomination Non-Wesleyan

The Wesleyan Methodists were the original body founded in 1739 by John and Charles Wesley The constitution is Presbyterian in character, consisting of local quarterly meetings and district synods, both subordinate to the annual conference, which has supreme legislative and judicial power The separate existence of the Wesleyan Methodist Church Ceased in Sept 1932, on the re-union of the Wesleyan Methodists with the Primitive Methodists and United Methodists

Wessex Kingdom of the West Saxons. It was established in the 6th century by the Saxon invaders of England. It covered the district south of the Thames between Sussex and Devon, with its capital at Winchester Its first kings were Cerdic and Cypric, who were succeeded by others, usually vassals of Northumbria or Mercia

In 802 Egbert became King of Wessex and in a few years was overlord of England He and his successors, one of whom was Alfred the one successors, one of whom was Alfred the Great are known as kings of England, of which Wessex was, in the 9th century, the most powerful state To-day Wessex is used as a general term for the counties of Dorset, Hampshire and Somerset, the district made familiar by the novels of Thomas hardy.

West Benjamin Anglo-American artist.
Born at Springfield, Pennsylvania, Oct 10, 1738, he settled in London in 1763
George III was his patron for forty years
Among his most famous works are "Death of
General Wolfe," "The Black Prince at
Poitters," and "Christ Healing the Sick." He
died March 11, 1820

West Bridgford Urban district of Nottinghamshire It lies to the south of the city of Nottingdistrict ham, from which it is separated by the River Trent, and of which it is really a residential suburb The chief building is the church of St. Giles Pop (1931) 17,821 East Bridgford is a village, 7 m away.

West Bromwich county borough of Staffordshire It is situated on the Tame, 6 m from Birmingham, on the GW Rly Its manufactures include machinery, tools and metal work, and there are foundries and smelting furnaces Other industries are brick smelting furnaces making, tar distillation and the manufacture of

making, far distillation and the manufacture of washing powders. It sends one member to Parliament. Pop (1928) 81,281

The football club, West Bromwich Albion, founded in 1879, won the first division championship in 1920, Association Cup in 1888 and 1892 and Cup and League in 1931

Westbury Urban district and market town of Wiltshire It stands on the Biss, and is a junction on the GW. Rly The town has a trade in farm produce and some manufactures and some manufactures

Westcott Brooks Foss English divine Born near Birmingham, Jan 12, 1825, and educated at King Edward's school and at Cambridge, he took orders in 1851, and was an assistant master at Harrow, 1852 69 He then became Canon of Peter-1852 69 He then became canon of Peterborough and Professor of Divinity at Cambridge and in 1883 Canon of Westminster In 1890 he became Bishop of Durham He helped to revise the New Testament, and wrote The History of the New Testament Canon, 1855, and The History of the English Bible, 1868 After twenty-alcht, work Westcott, and Dr. twenty-eight years' work, Westcott and Dr. Hort published The New Testament in Greek, 1881 He died July 27, 1901 1881

West Drayton Village of Middlesex from London, by the GW Rly, on which it is an important junction. It is part of the urban district of Yiewsley and West Drayton Pop (1931) 13,057

Westerham Market town of Kent It is 5 m from Seven oaks, and 26 from London, on the S Rhy James Wolfe was born at the vicarage here, and lived at the house now called Quebeo House Westerham Hill (800 ft.) is the highest point in Kent. Pop 8050

Western Australia State of vv estern Australia
It occupies all the western area. The centre is largely unexplored, settlement being mostly near the coast The discovery of the rich goldfields near Coolgardie about 1892 played an important part in the progress of the rich and important part in the progress of the rich and in the an important part in the progress of the state. Wheat growing is an important export in dustry, but more intensive forms of agriculture, dustry, but more intensive forms of agriculture, eg fruit and wine production, are developing. The wool clip is considerable, while the southern part has valuable hard wood forests Perth, the capital, is connected by rail with areas north and south and, through Cool gardle, with the Transcontinental Rly In 1930 there was a movement favouring secession from the Australian Commonwealth and a departation was cont to the Buttish Government. deputation was sent to the British Government, who referred the matter to the Federal Govern ment of Australia Area 975,920 sq m Pop (1932) 422,495

Wester-Wemyss Baron. British Rosslyn Erskine Wemyss was born, April 12, 1864 and entered the navy He was promoted full admiral in 1919, having served as comman der in-chief in the East Indies and Egypt, as First Sea Lord, and as a member of the War Cabinet He was created baron in 1919 In 1929 he was placed on the retired list

Westgate-on-Sea Watering place 2 m. from Margate, on the S Rly and is a health resort noted for its bracing air

Westhoughton Urban district of Lancashire, about 5 m from Bolton, it is 202 m from London, by the LMS Rly It is in a coal mining district and has cotton manufactures Pop (1931) 15 592

West Ham County borough of Essex Thames and the Lea and is a residential district of the working classes and an in dustrial area. It has a park of 80 acres. The inhabitants are employed in the railway shops at Stratford, at the docks, and in the factories of

the neighbourhood Pop 294,086
West Indies Fertile tropical islands,
discovered by Columbus They form a chain from Florida and Mexico to Venezuela enclosing the Caribbean Sea, being the peaks of a submerged mountain range Martinique and St. Vincent possess volcances which were active in 1902 The western islands except for the Bahamas, are western islands except for the Bahamas, are large the eastern ones quite small, except for Trinidad First colonised by Spain, they have been the scene of much strike among various nations They now comprise the republics of Dominica, Cuba and Haiti, and dependencies of the U.S.A., France, the Netherlands and Great Britain. Area about 100 000 so m 100 000 sq m

Westinghouse George American engineer He was born at Central Bridge, NY, Oct. 6, 1846, and at 18 was assistant engineer in the navy In 1872 he patented his famous air-brake which acts automatically in case of accident it was quickly adopted on practically all rallways In 1912 he was awarded the Edison gold medal for certain electrical achievements He built dynamos for the Niagara Falls power plants and for the London Metropolitan Rly He died March 12, 1914

West Kirby Watering place of Cheshire It is in the Wirral Peninsula, 8 m from Birkenhead on the River Dee, and besides being a popular resort is also a residential district for Birken head Pop, with Hoylake (1931), 16.628

West Lothian See LINLITHGOWSHIRE

Westmeath State In the province of Leinster, it has an area of 709 sq m., is a limestone country, and has some fine loughs, notably Lough Ree on the Shannon The Royal Canal cuts across Westmeath providing easy access to Dublin The county is agriculeasy access to Dubin The county is agricultural, dairy farming, and some woollens and linens are manufactured The chief towns are Athlone and Mullingar Pop (1926) 56,796

The Earldom of Westmenth was created in 1621 Anthony Francis Nugent (b 1870) the 11th earl, succeeded to the title in 1883

Westminster City and borough of the county of London It is about a mile to the E of the city, with which it is connected by the Strand and the Embankment. It occupies a considerable area to the north of the river and includes many buildings of note and much valuable property, making it the richest of the London property, making it the richest of the London boroughs Therein, in addition to the Abbey and the School, are the Houses of Parliament, the government offices, St James and Buckingham Palaces, theatres, restaurants, hotels and clubs, as well as the National Galleries Other buildings include the City Hall, the Middlesex Guildhall, the Weslevan Central Hall and Burlington House The Roman Catholic Cathedral is a fine structure in the city is Hyde Park, and its thoroughfares include Piccadilly, Whitehall and Trafalgar Square Westminster Bridge crosses the river here. Westminster was at one time poterious Square Westminster Bridge crosses the river here. Westminster was at one time notorious for its slums, but much clearance work has been done Westminster grew up around the Abbey and the palace of the early kings In 1540 it was made a city, and in 1547 began to send two members to Parliament In 1888 it became one of the boroughs of the county of London. Pop (1931) 129,536

Westminster Duke of British title held since 1784 by the family of Grosvenor Hugh Richard Arthur Grosvenor, 2nd Duke of Westminster was born Mar 19, 1879, of the ancient Cheshire family of Grosvenor, and was educated at Eton He succeeded to the title on the death of his grandfather in 1899 He served with distinction in the Boer War, as A D C to Lord Roberts, and also in the Great War The family seat is Eaton Hall, near Chester

Westminster Statute of Act passed ment of the United Kingdom and the parliaments of the self governing dominions of the British Empire It deals with the relations between them, which are now on the basis

of absolute equality By it the parliament at Westminster ceases to have any right to review the legislation passed by the other parliaments which can legislate in matters that concern them even if such are outside their foundations, 50 in number, are called King's the legislation of the United Kingdom and that of the parliament of any of the Dominions the law reseal by the letter shell not therefore he law passed by the latter shall not therefore be invalid The statute also declares that no alteration shall be made in the laws affecting the succession to the throne without the consent of the Dominion parliaments

Westminster Abbey Church west minster one of the finest Gothic buildings in the world In full the Collegiate Church of a Peter, it was originally the church of a Benedic tine abber founded before the Norman Con-Annual The oldest parts of the building are Norman with perhaps a little Anglo Saxon but the main structure dates from the 13th and 14th centurica. In the 15th century Honry VII is chapel was built and Wron designed the western towers completed in 1740. An extensive scheme of restoration was carried out after the Great War

The west front the choir, the nave and the north transept are magnificent in their beauty and proportions but the sem of the building is Henry VII's chapel the chapel of the Order of the Bath. The abbey contains the tombs of many sovereigns statesmen poets and others, man sovereigns statesmen poots and others, and a large number of memorials. The tomb of the Unknown Warrior (q n) is near the vestorn end of the nave. There are many chapels notably the Chapel of S. Edmund with his shrine and the Warrior's Chapel opened in 1932. In the south transept is the Poets' Corner. Adjoining the church are the cloisters and the Chapter House, in which the House of Commons sat for nearly three centuries before 1547. The Jerusalem Chamber is near of the deanery The Jerusalem Chamber is part of the deanery The abbey is the coronation place of the sovereigns and in it is the coronation chair. The oldest part is the Norman undercrott and excavations in 1931 32 uncarthed fragments of the earliest building. The abbey is the coronad in the source of the carried building. is governed by a dean and chapter and is outside the authority of any diocesan bishop

Westminster Hall This was built by William Rufus and finished in 1099 Its timbered roof was added in 1394. The immense span of the roof (67 ft.) which has no intermediate supports, marked a notable step forward in roof design and building. In the present century the roof was seriously marred by the destructive work of the "death watch" beetle, and extensive repairs were carried out and completed in 1922 The hall was the scene of many famous trials, including those of Richard II, Charles I, and Queen Caroline.

Westminster School Public London In full St. Peter's College, it has a long and close connection with the Abbev, although the legal tie between the two was severed in 1863 The Abbey is still the school chapel and the bovs have certain privileges on great occasions It dates from 1339 or earlier buildings, around Little Dean's Yard, include the school hall, once the dormitory of the monks, the dining-hall and several houses, including Ashburnham House, once the residence of the Ashburnham family There is also a science building in Great College St

Westmorland North-western county of England It has a land area of 790 sq m and contains a great part of the Lake District and magnificent mountain scenery (Helvellyn, 3118 ft) The lakes include Windermere, part of Ullswater, Grasmore and Haweswater There is little agriculture, as the climate is cold and yet and sheep reading and delivergening are wet, and sheep rearing and dairy-farming are the chief occupations. There is some slate and granite quarrying. The chief towns are Kendal and Appleby. Pop. (1931) 65-398.

The Earldom of Westmorland has been held by the family of Neville and Fane since 1397 and 1624 respectively Vore Anthony Francis S Clair Fane (b. 1893) the 14th earl, succeeded

to the title in 1922

Weston-super-Mare Pleasure and urban district of Somerset It is on the Bristol Channel, 15 m from Bristol, and 137 m, from London, and is reached by the GW Rlv Steamers go to Cardiff and other places on the Bristol Channel Near are the two islands of Flat Holme and Steep Holme and on the mainland is Brean Down, a sanctuary for wild birds. Pon 1931) 28.555 Pop (1931) 28.555

Westphalia District of Germany It Notherlands and on the east side of the Rhine Notherlands and on the east side of the ranne In 1180 it was made into a duchy, and was ruled by the electors of Cologne until 1803 In that year it was given to Hesse Darmstadt, and in 1815 to Prussia From 1807 13 there was a kingdom of Westphalia, its king being Jorome Bhopaparte To day it is a province of Prussia famous for its coal and iron mines and the industrial activity. Münster is the capital its industrial activity Münster is the capital and in the province are Essen, Dortmund, Düsseldorf and other manufacturing towns

Westphalia Treaty of Pence signed on Oct 24, 1648, which ended the Thirty Years' War (qv) By its provisions France gained Alsace and the recognition of her sovereignty over Metz, Toul and Verdun, Sweden gained Western Pomerana, Bremen and Verden. The independence of Switzerland and the United Provinces and the sovereignty of the remaining states within the sovereignty of the remaining states within the Empire were recognised Religious teleration was granted to Calvinists as well as Lutherans in Germany. The treaty marks the failure of the Austro-Spanish attempt to restore Roman Catholicism universally in Central Europe, and is the starting point of French domination in

West Point Training college for the United States It stands on the right bank of the Hudson River, 50 m from New York. It dates from 1802 and the buildings are in extensive grounds.

Westport Scaport, arban district and market town of Co Mayo, Irish Free State It is on Clew Bay, 10 m. from Castlebar by the GS Rlys There is some shipping and an agricultural trade. Pop (1928) 3488

Westport Port of New Zealand of South Island, 57 m from Greymouth, it is the centre of an extensive coal area, with which it is connected by rail The trade is principally a coastal one in coal Pop 7000

West Virginia State of the United States In the east of the country it lies to the west of Virginia and covers 24,282 sq m Charleston is the capital but Huntingdon and Whaeling the and covers 24,282 sq m Unarieston is the capital but Huntingdon and Wheeling are both larger It produces much wheat, maize and oats as well as tobacco and apples Oil and coal are mined on a large scale It is governed by a legislature of two houses and sends two senators and six representatives to Congress The state has a university at Morgantown Pop (1930) 1,729,205

Westward Ho! Holiday re resort on the north coast, 3 m from Bideford, its station on the GW Rly urban district of Northam

Wetherby Market town of Yorkshire (WR) Situated on the Wharfe it is about 12 m NW of Leeds and 191 m from London, by the LNE Rly It is an agricultural centre and brewing is carried on Pop 2300

Wetterhorn Mountain of Switzer land It is in the Bernese Oberland near Grindelwald and is 12 165 ft high It was first climbed in 1844

Wexford Borough, market town and seaport, also the county town of Co Wexford Irish Free State It stands on the estuary of the Slaney, 87 m from Dublin, on the GS Rlys Fishing, distilling and brewing are carried on. Objects of interest are the old bull ring and the ruins of the castle Pop (1926) 11,879

Wexford County of Leinster, Irish Free State In the SE coast of the country, it has a coastline, both on the east and the south totalling about 90 m Wexford is the county town, other places are Emissorthy, New Ross, Ferns and Gorey There are several good harbours The surface is hilly, but on the whole the land is fertile The Slaney and the Barrow are the principal rivers agriculture and fishing the staple industries The country's area is 900 sq m Poo (1926) 95.848 Pop (1926) 95,848

Wey River of Hampshire and Surrey River of Hampshire near Alton, it flows N through Surrey until it joins the Thames near Weybridge It is 35 m in length A stream in Dorset called the Wey rises near Upwey and flows into the English Channel at Weymouth

Weybridge Urban district of Surrey rivers—the Wey and the Thames—19 m from London, on the S Rly It is principally a residential district, being near several good golf courses and only a few miles from Brook lands, the station for which is known as West Weybridge There is a fine, open common. Pop (1931) 7359

Weygand Maxime French cavalry general He was born at Brussels Jan 21, 1867 Throughout the Great War he was the assistant and trusted adviser of General Foch. He conducted a successful campaign against the Bolsheviks in Poland in 1920 and liberated Warsaw In 1923 26 he was High Commissioner in Syria, in 1930 Chief of the General Staff

Weyman Stanley John English author He was born at Ludlow, Aug 7 1855, and was educated at Shrewsbury and Christ Church, Oxford He became a barrister, but devoted most of his time to writing and in 1889 published The House of the Wolf Other historical novels followed, including A Gentleman of France, Under the Red Robe, Shrewsbury, The Casile Inn, Ovington's Bank and Queen's Folly He died April 12, 1928

Weymouth Scaport and market town of Dorset. It lies 8 m. from Dorchester, on the 8 and GW Rlys It was popularised as a watering place by George It has considerable coastal Щ shipping traffic, and there is a regular steam-boat service to the Channel Islands Pop (with

Melcombe Regis) 21 982

Whales Order of mammals inhabiting the sea They are divided into Archaeoceti, the fossilised whales, Mystacoceti, whalebone whales and Odontocet, toothed whales and dolphins They vary in length between four and a hundred feet. They are warm blooded by a heart hims the order. warm blooded breathing through lungs, having no scales, reproducing and feeding their young like land mammals

WHALING Early whaling was carried out by means of harpoons flung by men in small boats, but now a Svend Foyn gun is used, which is mounted in the forecastle of a whaling ship When the gun is fired, a harpoon capped by an explosive is released, which explodes three seconds after reaching the whale

Whating is carried on in the Falkland Islands and the Arctic and Antarctic Oceans Blubber

is now stripped by machinery, and the carcasses are used for oil and fertiliser

Whalley village of Lancashire It
and 8 from Blackburn on the LMS Rly
The parish church was once that of a Cistercian
abbey of which some promine still order. Rep. abbey of which some remains still exist. Pop

Wharfe River of Yorkshire It rises on the moors in the north west of the county and joins the Ouse at Cawood It passes by Ilkley and Wetherby and has a length of 60 m The picturesque district through which it flows is called Wharfedale Wheat Grain of the genus Triticum. It bears a dense four sided spike and the flowering clumps may be bearded or heard.

the flowering glumes may be bearded or beard-less Within the glumes are the florets, each of which bears a grain which is the edible part of the grass This is a cereal, the most important food of temperate climates, and next to rice the most largely used of any grain. When ground it yields a fine white flour which is made into bread, cakes, pastry, etc Many varieties of wheat are cultivated. The most important is Triticum sativum It will grow in almost every climate and the yield per acre is as high as 60 bushels It is rich in starch. Bran is produced from its coating It is liable to attack by rust, bunt and other diseases Wheat has been widely grown for food since pro-historic times In the 19th century experiments resulted in a great improvement in its quality, the introduction of new fertilisers added to its productivity and varieties were evolved that will grow on soils previously regarded as unsuitable The result was a glut of wheat which was very pronounced in 1932, and in 1933 an international Wheat Conference was held in London, with the object of establishing a balance between the production and con-sumption of wheat

In 1931 the world's wheat crop amounted to 545,000,000 quarters, the largest producers were Russla, the United States, Canada, Russia, the India, France, Australia The British production was 5,000,000 Italy quarters and the Consumption 30,000,000, leaving 25,000,000 to be imported. The estimated world production for 1934 is 633,000,000 of 480 quarters. In 1917, to encourage the growing of wheat in Great Britain, an Act of Parliament fixed a minimum price, but this scheme was abandoned in 1921. In 1931, when the country adopted protection for home industries, the question of the growth of wheat was again in the foreground. The policy adopted was that every miller should be required to use a quarter of home-grown wheat and after the conference at Ottawa, a quarter of Empire-grown wheat A wheat commission was set up and to this every miller and every importer of wheat must pay 10s 8d per ewt of his output of flour These payments, which began on July 23, 1932, secure a minimum price for British wheat

Wheatear Small bird (Sarrola acnanthe) the whinchat It is found in the northern parts of Lurope, Asia and America, chicily on waste land it is seen in England during the summer Blulsh-grev on the back, the bird has a light buil breast and a white rump which

is very noticeable in flight Wheatley Urban district of Oxford-shire It is S m from Oxford and 48 from London by the GW Rly

(1931) 1269

Wheatstone Sir Charles English Inventor Born near Gloucester in Feb. 1802, he was appointed Professor of Experimental Philosophy in 1834 at King's College, London, where he investigated the properties of sound light and electricity in conjunction with W. F. Cooke he patented, in 1837, a system for giving signals in distant places by means of electric currents In 1838 he invented the stereoscope He was elected FRS in 1837 was knighted in 1868, and died Oct. 19, 1875

Wheel Circular disc or frame revolving on an axis, calculated to further motion and also used for mechanical purposes Wheels in the earliest vehicles were round discs cut out of solid wood This type of wheel still exists in primitive countries Various types of wheels are used in modern mechanics, including the excentric wheel, that is, a wheel having its axis not in the centre. A form of torture known as breaking on the wheel formerly existed in many countries, prisoners being laid on a wheel and their limbs broken by the executioner with an iron bar

Wheel Lock An early kind of gun-lock in which sparks were struck from a flint, or piece of iron pyrites,

by a revolving wheel

Whelk Sea fish with a spiral shell Whelk Sea fish with a spiral shell area stretching from the North Atlantic to the Bay of Biscay, and from the coast of America to Siberia. The whelk is carnivorous and eats living and dead shell fish It is caught in wicker rete and by dredging pots and by dredging

Whernside Mountain of Yorkshire It is on the moors in the morth-west of the county It is 2414 it high

north-west of the county it is 2414 it high one air and is best ascended from Giggleswick Whewell William English scientist and caster, May 24, 1794, and educated at Trinity facilitates tree climbing

College, Cambridge, in 1838 he became Pro-tessor of Moral Theology at Cambridge, in 1841 Master of Trinity and president of the British Association, and in 1855 Vice-Chancellor of the University He wrote on astronomy physics, philosophy, architecture, and many other subjects He died March 6, 1866

Watery part of milk It is separated from the curd usually Whey

in the process of cheese making

Whickham Urban district of Durham.

He industries are connected with steel and chemicals Pop (1931) 20 782

Whig English political party The name, originating in Scotland, was connected in the 17th century with Presbyterianism and therefore rebellion, and became current in England in 1679 during the structle to exclude James, Duke of York from the throne. It was applied to those who urged the waiving of the The opponents of the Whirs were the Tories (q r) The party supported the Hanoverian Succession and enjoyed undisputed political power between 1714 and 1760 At the end of the century it espoused the cause of political and social reform and in the early 19th century developed into the Liberal party See LIBERAL.

Whinchat Small bird (Saxicola rubetra)
Whinchat It resembles the stonechat
but is distinguished from it by white streaks
on the head and neck. It visits England in the
summer and lays its eggs in nests on the ground

Whinstone Scottish term for any basaltic or unstratified rocr

Whip English parliamentary official Abbreviated from the whipper-in of a hunt, the name denotes a member of a political party chosen by its leader, whose special duty it is to secure the attendance of all members of his party on necessary occasions. The name is also used for the summons calling members to attend on these occasions. The Whips must always be present at debates, and in a position to inform their leader of the state of the House

Whippet Breed of dog, used for coursing and racing It resembles the grevhound, but is smaller, and was probably derived by crossing terriers and Italian grey-

Whippingham Village of the Isle of the Medina, about 4 m from Newport. Near is Osborne House, a favourite residence of Queen Victoria. Pop 2033

Whip-poor-will Mightiar (Antrosto-N America It is 9 to 10 ins long, with brown plumage mottled with black and cream There is a white band at the throat, and at the base of the bill are a number of stiff elastic bristles The name is derived from the charac-

teristic call, uttered only at night.
Whipsnade District of Hertfordshire
It is 34 m from London and 3 from Dunstable Formerly part of the Ashridge estate, it was bought in 1927 by the Zoological Society and laid out as a zoological garden where many of the animals live in the

Whip-snake Snake of the genus Dryophis It is a native of India and Malava, and its long, slender shape

Whisky Spirit made by the distillation of the fermented extracts from malted or unmalted cereals, potatoes or any starch yielding material The best whisky is made from unmalted barley, but it can be made from malted barley, or a mash of barley with cats, rye or wheat The liquid must be with oats, rye or wheat kept in wooden casks before it is ready for drinking In Great Britain there is a duty of 23 12s 6d per proof gallon on whisky

Whist English card game It originated from a combination of soveral older games, probably about 1621 and was so called because it needed silence and concentration It is played by four persons, two sides of two partners each, with a full pack of 52 cards equally divided, the last card deal below turned up, and declared trumps. A being turned up and declared trumps game consists of seven points, each t each trick above six counting one towards the score

Whistler James Abbott McNeill American artist. Born at Lowell, Mass, July 10, 1834 he studied art in Paris later settling in London His numerous etchings include, "The Thames Set," "The Venice Sets," and "The Paris Set," while of his many portraits the two outstanding ones are, 'The Artist's Mother" and "Portrait of Carlyle" He died July 17, 1803

Artist's Mother" and "Portrait of Carlyle" He died July 17, 1903

Whitby Urban district, market town, seaport and pleasure resort to Yorkshire (N R) It stands at the mouth of the Esk, on the North Sea, 30 m from Scarborough and 244 from London, on the L N E Rly The chief object of interest is the rulned abbey on the cliffs Founded by King Oswiu it has associations with S Hilda and Caedmon and in row pational property. The town is and is now national property. The town is famous for its jets. Fishing is an important industry. On Dec. 16, 1914, the town and abbey were damaged by a German bombard ment. Pop. (1931) 11,441

Whitchurch Village of Middlesex, district of Wealdstone and Edgware famous for its church where Handel was organist from 1718 to 1721

Whitchurch Urban district and mar-ket town of Shropshire

It is 19 m from Shrewsbury and 171 from London, on the G W and L.M.S Rlys Brewing is an industry and there is an agricultural trade. Pop (1931) 6016

Whitchurch Town of Hampshire It 59 from London, on the S and G W Rlys The parish church possesses a curious Saxon stone. The town has an agricultural trade. stone. Tr

Sir George Stuart. British soldier Born in Whitehall, Co Antrim, White July 6 1835, he was educated at Bandhurst, and served in the Indian Mutiny, Afghen War (dualing which he gained his V.C.) Egypt, Burma and Baluchistan In 1893 he succeeded Lord Roberts as commander in-chief in India In the South African War he held Ladysmith for 119 days until relieved by Lord Roberts, March 1 1900 He died June 24, 1912

White Gilbert English naturalist Born at Sciborne Hampshire, July 18, 1720, he was educated at Basingstoke and Oxford. He is remembered chiefly by his Oxford. He is remembered enteny by many Natural History and Antiquities of Selborne, published in 1789 He died June 26, 1793

He entered of a Nottingham butcher He entered a lawyer's office, but abandoned this career to become a clergyman and went to St. John's College Cambridge Shortly after he died of consumption, Oct. 19, 1806 Kirko White attracted attention by his volume of poems published in 1803, but is better known to-day as the author of the hymn, "Oft in danger, oft in woo" of a Nottingham butcher

White Arum South African plant (Richardia) of the order African plant Araceae, popularly known as the arum lily The leaves are arrow-shaped, and the white spathe or mantle enfolds a central column round which the minute yellow blossoms are clustered. The British cuckoo pint, or wake robin is of the same family

Whitebart Fry of sprats and herrings, mouth of the Thames and in other estuaries, during the months March to August.

Whiteboys Agrarian association formed about 1760 It aimed at redressing their grievances against their landlords, and resisting the collection of tithes. They were white shirts, which there were the state of the s in which they went on night raids

Whitechapel District of London. It city in the metropolitan borough of Stepney, and is largely inhabited by Jews S Mary's and S Jude s are its chief churches Here are Toynbee Hall and the Whitechapel art gallery It has stations on the D and E L Rlys

White City Name given to an exhibition ground at Shepherd's Bush, London. It was opened in 1908 and a number of exhibitions were held there, except during the war period (1914 18) when it was used for military purposes It possesses a track for greyhound racing In 1932 a cinder track was constructed for athletic meetings

Whitefield Urban district of Lan-manchester and 193 from London by the LMS Rly, and is a centre of the cotton industry Pop (1931) 9107

Whitefield George Born at Gloucester lohn and 1714, at Oxford he met John and Dec 16, 1714, at Oxford he met John and Charles Wesley, already engaged in evangelistic work. He received Deacon's Orders in 1736, then went to America to join Wesley who was establishing missions there After his return he preached in the open air with such success that he spent much of his life as a travelling preacher His Calvinistic views led to a breach with the Wesleys, but he received great support from others, who built him a chapel in London. He made seven evangelistic trips to America,

dying there, Sept. 30, 1770
Whitefish Fish of the genus Coregonus
It is related to the salmon and found chiefly in large inland lakes. It is a native of N America and the cold to temperate regions of Europe and Asia. The pollan, the vendace, and the gwyniad are British species.

White Flag Sign of truce or sur-something white used as a substitute, is recognised in all civilised armies as a flag of truce or as a sign of surrender, when flown over a place position, or body of men

Whitehall Street of London It runs from Charing Gross to Parlia-White Henry Kirke English poet He ment Street, and in it are some of the Govern was born Mar 21 1785, the son ment offices. Old Whitehall Palace, now the

United Services Institute and Museum, was designed by Inigo Jones, and from the banqueting hall Charles I. walked out to his execution in 1649 The original Whitehall was built by Henry VIII and was burned down in 1698 In the middle of the thoroughfare is the Cenotaph erected in memory of those who fell in the Great War

Whitehaven Borough, scaport and market town of Cumberland It is 303 m from London, on the LMS Rly. There is a good harbour from which coal, pig iron, ore and steel are shipped The industries include coal and fron mining, ship building, etc In 1915 the town was bom-barded by a German submarine Pop (1931) 21,142

White Hellebore Perennial coarse album) also called falso hellebore. A native of turope, it has long vertical leaves and panicles of white flowers on the upper portion of the stem. The rootstock is poisonous, yielding veratrin, a substance used medicinally in muscular and cardiac affections

White Horse Figure of a horse out in chalk on a hillside There are several such in England. The most There are several such in England famous is near Wantago in Berkshire in the Vale of the White Horso The figure is 374 ft. high and according to tradition commemorates the victory of Alfred over the Danes There are other figures of the kind near Weymouth and at Bratton, and several other places on the Wiltshire hills

White House Official residence of the United States It is at Washington and has been used for its present purpose since 1800

White Lead Carbonato of lead. A is insoluble in water, but is easily dissolved in dilute nitric acid or acetic acid. It is made by an elaborate process, thin sheets of lead being placed in eartherware pots containing dilute acetic acid and then packed round with special tan and left to stand for several months The process produces a substance which is baked, ground and dried, and used in the manufacture of paint. The manufacture of white lead is a hazardous occupation owing to the risk of poisoning, and laws have been passed to protect the health of its workers

White Sea Branch of the Arctic Ocean It lies between the peninsulas of Kanin and Kola, and is over 300 m long Through its chief port, Archangel, it is connected with the Caspian and Black Seas by canal, but owing to ice it is only open to shipping in the summer

Whitethroat Migratory bird of the family Sylvidae. The larger whitethroat (Sylvia cinerca), is 51 to 6 in long, with greyish or reddish brown plumage above, and white to bull beneath The whitethroat (S curruca) is 51 in long are common summer visitants to Britain The lesser Both

Whitgift John. English prelate He about 1530, and educated at Wellow Abbey, near Grimsby, St. Anthony's School, London, and Cambridge, where he became Fellow of Peterhouse in 1655 He was ordained in 1560, became Dean of Lincoln in 1571, Bishop of Worcester in 1577, and Archbishop of Canterbury in 1583 He vigorously supported Queen Elizabeth's policy of religious uniformity. He died Feb 29, 1664

Whithorn Burgh and seaport of Wig-townshire It is on the VV III TOFI townshire It is on the Irish Sea, 11 m from Wigtown, on the L M S line There are ruins of a priory and the town was the seat of a bishopric before the Reformation. It has a trade in seattle for the Reformation of the result of t It has a trade in cattle Pop (1931) 951

Whiting Marine food fish (Gadus merlangus) related to the cod It is usually 14 lb or so in weight, and is esteemed for the table. The whiting-pout, an allied species of W European waters, has a decrease of the species of the specie deeper body and has a barbel on the chin.

John Henry. English politician. He was born in Halifax. Whitley 8, 1866, and educated at Clifton College Feb and London University Hе represented Halifax as a Liberal from 1900 to 1928, and was Speaker, 1911-1928 On his retirement he was awarded the Order of Merit. He was chairman of the committee on Relations between Imployer and Employed in 1916 From this developed the Whitley Councils, an attempt to entirely the claim of organised labour to a measure of control in industry In 1929 he was appointed chairman of the Royal Commission on Indian Labour, and in 1930 chairman of the B B C He died on Fob 3, 1935

Whitley Bay Pleasure resort of Northumberland It stands on the North Sca. 2 m from Tynemouth, on the L N E Rly It has fine sands, pleasure gardens and other attractions for visitors. The urban district is known as Whitley Bay and Monkscaton Pop (1931) 21,210

Whitlow inflammation of the finger especially round the nail. Hot fomentations should be applied to the finger and the whitley should be applied to the

finger, and the whitiow should be opened by a doctor to allow the escape of pus

Whitman Walt American poet. Born at West Hills, Long Island, N Y, May 31, 1819, he left school early, and tried various occupations before he turned to literature His Leaves of Grass and a prose work, Specimen Days, are the extent of his writings, but they made him the most vital literary force in America. He died March 27, 1892

Whitstable Urban district and pleasure resort of Kent. It is on the estuary of the Thames 6 m from Canterbury, on the S Rly The chief industry is overer fishing There is a small harbour, and coasting trade, but the place is better known as a seaside resort for Londoners Pop (1931) 11 201

Whitsunday Feast of the Christian Church It is celebrated six weeks after Easter Sunday, in memory of the descent upon the disciples of the Holy Ghost It is also called Pentecost, the name given in the early days of the Church to the whole fitty days following Easter

Whittier John Greenleat American poet He was born in Hayor-

hill, Mass Dec 17, 1807, the son of a struggling farmer To his schoolmaster, Joseph Coffin, he owed his deep love of nature For a time he was a journalist, but poetry claimed him, and his ballads, Barclay of Ury and Barbara Frietchie rank high He belonged to the Society of Friends, and his poems reflect much of the Quaker spirit. It is in the spiritual and mystic spheres, as in My Psalm, that he excels. He died Sept 7, 1892

Whittington Richard Mayor of Lon-shire about 1358, at thirteen he arrived in

London to seek his fortune He became ap London to seek his fortune He became apprenticed to Sir John Fitz-Warren, a mercer, eventually marrying his daughter He was Mayor in 1398, 1406, and 1419, was knighted by King Henry V, and died in 1423 The story of his leaving London in despair, the sound of Bow Bells calling him back, may be considered true, but his cat is a creature of legend true, but his cat is a creature of legend

Whittlesea Urban district of Cam bridgeshire It is in the Isle of Ely, 95 m from London and 5 from Peterborough, on the L.N E Rly Around it is the land that was formerly Whittlesea More, the largest sheet of water in England Pop (1931) 8299

Whitwood Urban district of York shire (W R.) It is about 9 m south east of Leeds, and stands on the Calder Coal mining is its chief industry Pop (1931) 6196

Whitworth Urban district of Lan Rochdale, and 200 from London by the L.M.S Rly Pop (1931) 8360

Whitworth Sir Joseph English en gineer Born at Stockport Dec 21, 1803, he was educated privately In 1833 he established a tool making business in Manchester, and devoted himself to the manu facture of precision tools and improvement of lathes, planing and drilling machines, etc. He perfected a system of standard measures and gauges, and devised methods for securing months of the perfect of greater accuracy in rifles and cannon works were eventually united with Armstrong's of Elswick He died Jan 22, 1887

Whooping-cough Disease affect respir atory organs It is characterised by fits of convulsive coughing, accompanied by the peculiar sound known as a "whoop" It requestly occurs in childhead and could be a sound to frequently occurs in childhood, and occasionally in adult life It has a period of incubation of from two to ten days, and the first stage is similar to catarrh This lasts about fourteen days, when the coughing increases, and the 'whoop' begins, lasting generally for about two months, and becoming gradually less flerce. There is no special treatment, but fresh air and sunshine are beneficial

Whortleberry Name sometimes used for the bilberry (q v)

Whymper Edward British moun-April 27, 1840, for some years he continued his father's wood engraving business in Lambeth His greater fame rests on his mountaineering feats After seven vain attempts he was the first to reach the summit of the Matterhorn, in Inly 1855 He later explored Greenland and July, 1865 He later explored Greenland and visited the Andes and the Canadian Rockies, leaving several works recording his experiences He dled Sept 16, 1911

Whyte-Melville George John En Born June 19, 1821, he was educated at Eton, entered the army in 1839, and saw service in the Crimca He then devoted himself to writ ing, most of his books dealing with sport first novel, Digby Grand appeared in 1853 He was killed while hunting, Dec 5, 1878

Wick Burgh, seaport and market town of Calthness also the county town It stands on the east coast, 200 m from Thurso and 729 from London on the LMS Manchester and 194 from London on the Rly There is a good harbour, the place Manchester and 194 from London on the

is a centre of the herring fishery, and from here steamers go to the Orkney and Shetland Islands Nearby are the relics of Wick Castle, called the Old Man of Wick Pop (1931) 7548

Village of Cambridgeshire Wicken Village of Campringesing is 7 m. from Ely, and has an interesting old church Near is Wicken Fen a sanctuary for insects and the property of the National Trust. It covers 640 acres and was taken over in 1928

Wicklow State In the province of Leinster, it has a coastline on the Irish Sea Its area is 781 sq m. Wicklow is the county town, other places are Arklow and Bray The surface is mountainous and much of it is devoted to sheep rearing Minerals are worked Noted beauty spots are the vales of Ayoca and Glendalough The highest mountain is Lugna-quilla, over 3000 ft. high Pop (1926) 57,591

Wicklow County town and pleasure resort of Co Wicklow, Irish Free State It stands at the mouth of the river Vartry, 28 m from Dublin, on the GS Rlys There is some shipping Pop (1928) 3025

The title of Earl of Wicklow has been held since 1793 by the family of Howard The earl's eldest some is called Barron Cleanner.

eldest son is called Baron Clonmore

Widdecombe Village of Devonshira. It is 3 m from Ashburton and, being on Dartmoor, is called Widdecombe on the Moor It is famous for its church, one of the largest in the county and called the cathedral of Dartmoor, and for the song, "Widdecombe Fair," which commemorates its approal for rates its annual fair

Widgeon A species of wild duck (Anas pencione), which abounds in Europe and Northern Asia The drake has a chestnut head and neck, cream forchead, grey flanks, and green and black wings It has a cry which sounds like "whew duck."

Widnes Borough of Lancashire It is on the Mersey, 12 m from Liverpool, and is served by the L M.S and C L Rlys. There are large docks on the river The chief industry is the making of alkalis and soap, while another is copper smelting A transporter bridge crosses the river here Pop (1931) 40,608

Wiesbaden City, spa and pleasure resort of Germany It is beautifully situated among the Taurus Mts near the Rhine, 5 m. from Mainz, on the main rallway line from Cologne to Frankfort There are beautiful gardens and other attractions. The place is much yielted by persons wishing to drink its medicinal waters and there is a to drink its medicinal waters, and there is a fine kurhaus Before 1872 Wiesbaden was famous for its gaming tables From 1815 to 1866, when it became Prussian, the city was the capital of Hesse Nassau The city has a trade in wine Pop (1930) 151,961

W18 Artificial head of hair, which is symbol of office Wigs were known in the early days of Egypt, Greece and Rome In the sixteenth and seventeenth centuries periods. wigs developed from the simple simulation of real hair to elaborate, curled coiffures They died out gradually, and are now confined almost entirely to members of the legal pro fession, as part of their official costume

river Douglas It is served by the L.MS Rly It has cotton mills, clothing factories and engineering works, and around are coal mines

Pop (1931) 83,357

Wight Isle of Island off the south coast of England It covers 147 sq m, and is separated from the mainland of Hampshire by the Solent and Spithcad It is chiefly a holiday resort, and is famed for its quiet beauty and its mild climate Newport is the capital and around the coast are Ventnor, Freshwater, Cowes, Ryde, Shanklin, Sandown and other watering places It has a railway system centring on Newport, and is reached by steamers from Portsmouth, Southampton and Lymington The island contains Carisbrooke Castle, Osborne House, the Undercliff, Brading, and other places of beauty or historic interest It has its own county council, but for some purposes is in the county of Hampshire It is in the diocese of Portsmouth The island has its own governor Pop (1931) 88,400

Wightman Cup Trophy at lawn peted for each year by women players from Britain and the United States

Wigston white United States
Wigston Urban district of Leicester
shire It is 95 m from London
and 4 from Leicester, and is a junction on the
LMS Rly It is called sometimes Wigston
Two Steeples because it has two fine parish
churches The making of hosiery is the main
industry Pop (1931) 11,393

thurches The making of hosiery is the main industry Pop (1931) 11,393

Wigton Urban district of Cumberland 311 from London by the LMS Rly There are breweries and tanneries Near was the Roman station of old Carlisle Pop (1931) 3521

Wigtown Bursh and scaport of Wigtown It stands on Wigtown Bay and has a station on the LMS Riy The town has a memorial to two martyrs, women who were drowned in the Solway because they were Covenanters Pop (1931) 1261
Wigtownshire County of Scotland the country, it is part of the district called Galloway It covers 487 sq m, and has a long coastline on the Irish Sea Luce Bay and Loch Ryan almost out it into two Wigtown

Wigtownshire County of Scotland the country, it is part of the district called Galloway It covers 487 sq m, and has a long coastline on the Irish Sea Luce Bay and Loch Ryan almost cut it into two Wigtown is the county town, other places are Stranraer, Portpatrick, Newton Stewart, Whithern and Gleniuce The rivers include the Cree and the Rhinns of Galloway and the county includes several islands Cattle and sheep are reared, and milk and butter produced Pop 29,299

Wigwam Anglicised form of an Algonhut made of wooden poles lashed together at the top, and covered with bark. It is used generally for any of the houses, or skin tents (properly called tepees) of the North American Indiana

Wilberforce Samuel English prelate Wilberforce, the slavery abolitionist, he was born in Clapham, London, Sept. 7, 1805, and educated at Oxford Ordained in 1828, he was appointed rector of Brightstone, Isle of Wight, Canon of Winchester in 1840, Dean of Westminster in March, 1844, and Bishop of Oxford the same year In 1869 he was translated to Winchester He was killed July 19, 1873, while riding near Dorking

Wilberforce William English phil-Born in Hull, Aug 24, 1759, he was educated privately and at Cambridge In 1780 he was returned to Parliament for Hull Shortly afterwards he was converted to Evangelical Christianity and, in 1788, soon after meeting Thomas Clarkson (qv), he began his long and arduous fight for the abolition of slavery against formidable opposition, both within the House and without The bill for abolition finally passod, March 25, 1807, Wilberforce took an active interest in many philanthropic schemes He died July 29, 1833, and was buried in Westminster Abber

Wild Jonathan English criminal Born at Wolverhampton about 1682, he came to London, where in association with other oriminals he built up a connection as receiver of stolen goods He employed numbers of thieves, each one being allotted his special sphere He was hanged May 24, 1725

Wilde James British pugilist Born at 12, 1892 He held the flyweight championship of the world, though 14 lbs under the regulation weight Since 1922 he has only acted as referee

Wilde Oscar O'Flahertie Wills English author Born in Dublin, Oct 15 1856, he was educated at Dublin and Oxford. While still at college he laid the foundation of the aesthetic cult ("Art for Art's sake"), satirised in Gilbert and Sullvan's Patience Among his plays are Lady Windermere's Fan, A Woman of No Importance, The Importance of Being Earnest, among his novels, The Picture of Dorian Gray, and Lord Arthur Savile's Crime In May, 1895, Wilde was sentenced to two years' imprisonment for immoral practices, subsequently retiring to Paris, where he died Nov 30, 1900

Wilfrid English saint. Born about 634, he became a monk at Lindisfarne and was soon influential in Northumbria. About 665 he was made Bishop of York, but he was soon at variance with Theodore, Archbishop of Canterbury For a time he lived in Complègne, but in 668 he returned to Northumbria, and was restored to his sec, only to be driven out by King Egfrith In 685 he was again restored, but was again expelled in 691 He died at Oundle in 709 Wilfrid built churches at Hexham, Ripon and York

Wilhelmina Queen of the Netherlands She was born at the Hague, Aug 31, 1880, the only child of William III by his second marriage She succeeded to the throne, Nov 23, 1890 She married on Feb 7, 1901, Henry Wladimir Albert Ernst, Duke of Mecklenburg Schwerin On April 30, 1909, she gave birth to a daughter, Princess Juliana

Wilhelmshaven Seaport of Germany It stands on the North Sea, 41 m from Bremen Before the Great War it was Germany's chief naval base on the North Sea, with accommodation for docking and repairing the largest warships In 1919 the fortifications were dismantled and the harbour works fell into disuse The port was created in 1853 and named after William I, King of Prussia

Wilkes John English politician and journalist He was born in London in 1727 Though a man of dissolute character, he was instrumental in arousing the nation to the need for Parliamentary reform,

and in establishing the right of the Press to discuss public affairs In 1764 he was expelled from Parliament and outlawed for a libel contained in his paper, The North Briton He was three times returned to Parliament as member for Middlesex in 1768 and 1769, but he was not allowed to take his seat until 1774 He was Lord Mayor of London in 1774 He died Dec. 26, 1797

Wilkie Sir David Scottish painter Born Nov 18, 1785, in 1806 he settled in London, where his "Village Politicians' and "Blind Fiddler" gained him his R.A. and "Blind Fiddler gained nin his n.a. in 1811 In rapid succession came his portrait of Sir Walter Scott, "Card Players," "Rent Day," "Reading the Will," and a host of pictures depicting humble life His best known work was "Chelsea Pensioners listening to the news of Waterloo" He died June 1, 1841

Will Document by which a person called the testator disposes of property on death. By English law wills must be in writing and all signatures of the testator witnessed by two persons. The witnesses should be persons. who have no interest in the will In Scots law a will need not be witnessed if it is in the hand writing of the testator The will of a sailor at sea or of a soldier on active service need not

be in writing.

No person under 21 years of age can make a will. A will becomes invalid if a later will is made or if the testator marries A will can be altered by the addition of a codicil. In cases where a good deal of property is at stake, and several persons are interested in it, then the will should be drawn up by a solicitor A will must name one or more executors or trustees whose duty it is to have it proved and to carry out its provisions The property of persons who die intestate, or without making a will, is dealt with by taking out letters of administration. See EXECUTOR.

Willenhall Urban district of Stafford shire It is 3 m. from Wolverhampton and 122 from London by the I. M.S. Rly. Here are metal manufactures Pop. (1931) 21,147

Willesden Urban district of Middlesex. of the city Here is a great junction on the L.M.S. line. The urban district includes Cricklewood, Brondesbury and Harlesden Pop (1931) 184,410

Willett William English builder Born Surrey, he was well known in London as a builder of beautifully designed houses, but he is famous for his Daylight Saving scheme, which was first put into operation in England in 1916 He died March 4, 1915 See Daylight BIVING

William I. King of England, surnamed the Conqueror He was born in 1027, the natural son of Robert II Duke of Normandy, and succeeded to the duledom in 1035 He invaded England in He was dukedom in 1935 He Hivadeu England in 1966, landing at Pevensey on Sept. 28, and defeating the English army under King Harold at Scalac, near Hastings, on Oct. 14 After his coronation at Westminster at Christian Charles he had to well incorporately in mas, 1066, he had to quell insurrections in various parts of the country and later in Normandy He carried out a complete survey of He carried out a complete survey of his English realm, the results of which are breserved in Domesday Book (qv) He died bept. 9 1087

William II. King of England, gener william

Rufus. He was born about 1058, the third son of William the Conqueror He gained military successes in Normandy and Scotland, but his cruelty and profligacy earned for him the hatred of his subjects, and there was little sorrow when he was found dead in the New Forest with an arrow in his breast, Aug 2, 1100

William III. King of Gt Britain He posthumous son of William II Prince of Orange and Mary, daughter of Charles I of Gt Britain Appointed captain general of the Dutch forces when he had scarcely reached manhood, he carried on the struggle of the Dutch against Louis XIV with gallant determination. In 1877, he maying Mary doubter. Dutch against Louis XIV with gallant determination In 1677 he married Mary, daughter of James II of Britain. In 1689 after the deposition of James II (g v) he and Mary became joint sovereigns of Britain, his main object in accepting the crown being to ensure British participation in the War of the Grand Alliance (g v) The expenses of the war necessitated the institution of the National Debt in 1695 His last years were occupied with necotiations concerning the Spanish with negotiations concerning the Spanish Succession (see Span), and war had just been declared when William died March 8, 1702

William IV. British king He was the third son of George III. and Charlotte Sophia, of Mecklenburg-Strelitz After a term of service in the navy he was created Duke of Clarence in 1789 and became Lord High Admiral of England in 1827 After a twenty years' association with Mrs. Jordan (their children bearing the name of Fitz-clarence), he married Adelaide of Saxe Meininger, but had no issue He enceeded clarence), he married Adelaide of Saxe Meiningen, but had no issue He succeeded George IV on the throne in 1830 The Reform Act of 1832 was the outstanding measure of his reign. He died June 20, 1837

William I. King of Prussia and German Emperor Born March 22, 1797, second son of Frederick William III, King of Prussia, he received a military training and took part in the final campaigns of the Napoleonic Wars Conservative in his views, he supported repression of the revolutionary movement of 1848 In 1861 on the death of his brother, Frederick William IV, he became king Autocratic in temper, and a believer in military power, he worked in harmony with Bismarck (q v) in carrying out the policy which led to the terms tion of the German Empire. led to the formation of the German Empire During the Franco Prussian War he was in command of the Prussian forces and was present at the victories of Gravelotte and Sedan He was procelaimed German Emperor at Versulles 1911 1911 1911 and side of Berlin. at Versailles, Jan. 18, 1871, and died at Berlin, March 9 1888

William II German Emperor and King of Prussia. He was born at Berlin, Jan. 27, 1869, the eldest son of the Crown Prince Frederick (afterwards Frederick III) and of Victoria (eldest daughter of Queen Victoria) He married on Feb 27, 1881, the Princess Augusta Victoria of Schleswig Holstein, by whom he had six sons and one daughter When he became German Emperor, June 15, 1888, he had received a thorough military training, but his character was markedly immature and overweening Within two years of his accession Bismarck was dis-June 15, two years of his accession dismarks was unissed, and the Emperor went ahead, sometimes very imprudently, with his policy of expanding Germany's power. At the beginning of the Great War he directed operations in person, but later retired into the background

William the Slient. Prince of Orange-Nassau Born in Nassau April 25, 1513 he was favoured by the Emperor Charles V, and Philip II made him stadtholder (governor) of Holland Zecland and Utrecht. In 1567 he espoused the cause of the Notherlands or content Spanish downstien and or landers against Spanish domination, and of Protestantism against Roman Catholicism Ho falled largely through religious dissensions to unite all the Netherlands provinces into one independent state, but in 1579 the Union of Utrecht established the seven Protestant United Provinces. He was killed by an assassin July 9, 1584

Williams Sir George Founder of the Young Men's Christian Association. Born at Dulverton, Somerset, Oct 11, 1821, he went to London in 1841, and eventually became partner in the drapery firm. Hitchcock and Williams, St Paul's Churchyard He took an active interest in religious work, and on June 6, 1844, twelve men met in his bedroom and founded the YMCA (qv) He was knighted in 1894, and died at Torquay, Nov 6, 1905

Williamsburg City of Virginia It mond, on the James River Here is William and Mary College, founded in 1693, the second cidest in the country Founded in 1632, it is the oldest municipality in the United States, and was capital of Virginia from 1698-1779 In 1928 it was decided to restore it so that it will appear as it was in the 17th and 18th centuries In May, 1862, there was an indecisive battle here during the Civil War Pop 30,000

Williamstown Town and scaport of the municipality of Melbourne. It is 5 m from Melbourne on the estuary of the Yarra Yarra River It has accommodation for shipping and there are shipbuilding vards, railway shops, engineering works and canning factories

Willington Urban district of Durham.

A coal mining centre, it is

m from Bishop Auckland and 249 from
London by the L N E Rly Pop (1931) 9197

Willoughby Sir Hugh English ad-the served against the Scots in the time of Henry VIII, being knighted in 1544 In 1553 he was appointed commander of a fleet of three ships, sent out to find the north-east passage With two of his ships he reached Lapland, where he died of scurvy in 1554

Willoughby de Eresby
Peregrine Bertie. English soldier and statesman, famous for his many diplomatic and
military services to Queen Elizabeth, he was
born Oct. 12, 1555, at Lower Wesel, Cleves,
during the temporary absence from England of
his parents From 1582 onwards, he was sent
on various diplomatic missions to Denmark,
which he accomplished successfully In 1686
he routed the Spanlards at Zutphen, in the
engagement that cost Sir Philip Sidney his life
He also served in France and Scotland He
died June 25, 1601 died June 25, 1601

Willow A tree or shrub, belonging to the botanical family Salicaceae, and varying in height from a few inches to 120 feet. The leaves are longer than broad The flowers are borne on catkins, which appear

On Oct 9, 1918, he abdicated and crossed the before the leaves. Male and female catkins grow Dutch frontier to reside at Doorn Castle on separate trees, and cross-pollination is as timber and wood pulp, and for wicker and basket-making. The timber of one variety is used for making cricket-bats, the wood of the female tree being preferred for this purpose.

Willow Pattern Ware Chinaware which copies the original blue china of Nanking It was introduced into English porcelain by Thomas Turner of Caughlev, about 1700 The blue is printed under the glaze The scene depicted is a Chinese one, in which three men, according to a legend, are crossing a bridge, in pursuit of two runaway lovers, who have escaped and changed themselves into two doves, who fir freely above them who fiv freely above them

Wills Family of English tobacco manu-overton Wills (1761-1828), who married Anne Day, daughter of a tobacco manufacturer, and gradually obtained a controlling interest in the business From this beginning grow up the Imperial Tobacco Co (of Great Britain up the Imperial Tobacco Co (of Great Britain and Ireland) Limited, formed in 1901, and uniting many competing firms. His grandson, Henry William Wills (born Sept. 1, 1830, died Jan 29, 1911) became the first Baron Winterstoke Others were, Sir Edward Payson Wills, Bart. (1834-1910), and Sir Frederick Wills, Bart (1838-1909) Their united benefactions to Bristol were very large Gilbert Alan Hamilton Wills, 1st Baron Dulverton (born March 28, 1880) is now president of the Imperial Tobacco Co Tobacco Co

Wilmington Village of Sussex It is 6 m. from Eastbourne, and is famous for the figure of a man cut in the chalk on the hiliside. This is 240 ft. high and is called the Long Man of Wilmington

Another Wilmington is a city and scaport of Delaware, USA. It is 28 m. from Philadelphia and has many industries. The Swedish church here, ercoted in 1698, is one of the oldest buildings in the country Pop (1930) 106,957.

Wilmslow Urban district of Cheshire Stockport, and 177 m from London, by the LMS Rly The town stands on the Bollin Pop (1931) 9760

Wilson Sir Henry Hughes British soldier. He was born at Edge-worthstown, Co Longford, Ireland, March 5, 1864, and educated at Marlborough and Sandhurst He served with distinction in Burma and South Africa In the Great War he was Assistant-Chief of General Staff to Lord French In 1918 he was made Chief of Imperial General Staff in London, and a member of the War Cabinet, and was created member of the War Cabinet, and was created a baronet in 1919 He entered Parliament in Feb, 1922, and criticised the Government's Irish policy On June 22, 1922, he was murdened on his care departs. murdered on his own doorstop

murdered on his own doorstop

Wilson Thomas Woodrow. American president and statesman. Born at Staunton, Virginia, Dec. 28, 1856, he was educated at Princeton and Johns Hopkins Univorsities, becoming President of Princeton in 1902 In 1910 he resigned, having been elected Governor of New Jersey In 1912, owing to a split in the Republican vote between Roosevelt and Taft, he was elected President of the Republic. At the outbreak of the Great War he favoured neutrality, and

WIND 1300

he was re elected in 1916 on the slogan. "He ne was re elected in 1916 on the slogan, "He hept us out of the war" The continued ruthless submarine campaign, however, forced Wilson to join the Allied cause in April, 1917 He took a leading part in the peace negotiations and suggested the formation of the League of Nations. The restable with Versilles was the content of the Versilles was the versilles when the peace in the versilles was the versilles when the peace in the versilles was the versilles when the versilles was the versille The rejection of the Versailles Treaty by the US Senate and his own rejection in the presidential contest of 1920, however, led to his complete retirement from public life, and he died Feb 3, 1924 Wilson's lofty idealism, combined with his inability to realise his own political weaknesses, and his un willingness to listen to the advice of others, make his career one of the greatest tragedies of modern times

Wilton Borough of Wiltsbire It stands on the Wylye, 2 m from Salisbury on the S Rly It gives its name to a kind of carpet made here Here is Wilton House, the magnificent seat of the Earl of Pembroke designed by Inigo Jones The house is memor able for its association with Shakespeare and Sidney Pop (1931) 2193

Wiltshire County of England In the south of the country, it is wholly inland It covers 1375 sq m There are hills in the north and in the south is Salisbury Plain The county also contains Savernake Forest Salisbury is the county town other towns are Swindon, Marlborough, Calpe Chippopham Wilton Dayless Pewer Calne Chippenham, Wilton, Devizes, Pewsey Malmesbury and Warminster The rivers include two Avons, the Nadder and the Kennet The county is an agricultural area and supplies much milk to London Sheep are also reared in great numbers. It contains Stonehenge and other places of beauty and interest. Notable houses are Longford Castle and Bowood Pop (1931) 303,258

The Wiltshire Regiment was originally the 62nd and 99th Foot, raised in 1756 and 1824 respectively They are called the Springers The depot is at Devices The Wiltshire

Yeomanry is the senior of its kind in the army Wimbledon is 8 m from London, on the S and District Rlys It is famous for its common, a fine open space covering 1000 acres, and for its lawn tennis ground, the head quarters of the game where, in June, the championship matches are played. On the common is a Celtic earthwork called Caesar's

Camp Pop (1931) 53,920
W1mborne Market town and urban district of Dorset. It is 6 m from Poole, on the S Rly It is famous for its collegiate church, called the Minster, a large and magnificent building with a Norman central tower. It has a library of chained books

Its trade is agricultural Pop 3895

Wimborne Viscount. English title Guest In 1880, Sir Ivor Guest, a son of Sir Josiah Guest, who had made a large fortune from his ironworks in South Wales, was made a baron on Jan 6 1873, and educated at Eton and Trinity College Cambridge. From 1900 10 and Tribity College, Cambridge From 1900 10 he was a Liberal M P, and from 1915-18 he was Lord Lieutenant of Ireland He was made a baron in 1910, four years before he succeeded his father as Baron Wimborne In 1918 he was made a viscount

Wimereux Pleasure resort of France, 4 m from Boulogne There is good bathing is good bathing During the Great War the British forces had large hospitals here Pop

Market Winchcombe Gloucestershire is 6 m north-east of Cheltenham, and 114 m. from London, by the G W Rly There is a fine church, and nearby is Sudeley Castle, built in the 15th century Pop 2741

Winchelsea Town of Sussex. It is my from Hastings and 74 from London, and is reached by the S Rly It was a Cinque Port and a flourishing place until the sea receded and left it inland

There have been two earlier Winchelseas The older one was destroyed by the sca in the 13th century it was 3 m to the south east of 13th century it was 3 m to the south east of the present site. The newer one was built about 1300 by Edward I in 40 squares, but in little

over a century it too began to decay
The title of Earl of Winchelsea has been
held since 1628 by the family of Finch Hatton.
Since 1681 it has been united with the carldom of Nottingham The earl s cldest son is called

Viscount Maldstone

Winchester City and market town of Hampshire also the county town It is on the Itchen 66 m from London, on the S and G W Rlvs The chief building is the cathedral, notable for its long nave, its west front, and its historic monuments. In the Shire Hall, which is part of the old castle in which the kings lived is the castled at the castled and the castled in which the kings lived is the castled at the castled in the ca In the Shire Hall, which is part of the old castle in which the kings lived is the so-called table of King Arthur Other buildings are the modern Guildhall and Wolvesey Castle restored as a residence for the bishops Two of the old gates still stand They are the West Gate, in which is a museum, and King's Gate, over which is a church, S Swithins, leading into the close Near the city is the Hospital of St Cross founded in 1136 for poor old men The picturesque group of buildings includes a beautiful church In the refectory, ale and bread are distributed each day to visitors

Winchester has an agricultural trade and is a

Winchester has an agricultural trade and is a winceseer has an agricultural trace and is a military centre, the depots of the rife regiments being here. The diocese has been divided into three, Guildford and Portsmouth being the others. Until 1918 the city was separately represented in Parliament. Of Roman origin, it was the capital of Wessex, and for about 200 years before the Norman Conquest was the capital of England. Pop (1931) 22,989

Winchester Marquess of English title, the oldest of its rank, borne since 1551 by the family of Paulet. Sir William Paulet was the first holder. The 5th marquess was the defender of Basing House for Charles I, and the 9th marquess was made Duke of Bolton in 1689 In 1794, when the 6th Duke of Bolton died his dukedom became extinct, but the marquisate passed to a descendant of the earlier Paulets

Winchester College English school It was founded by William of Wyke ham in 1382 and on it the English public school system has been modelled. It is controlled by a corporation of wardens and fellows. The box corporation of wardens and fellows The boys are divided into scholars and commoners The scholars live in college, the commoners live in houses near The chapel and other buildings erected in the 14th century are still used, but there are extensive modern ones motto is Manners makyth man The school

Wind Air in natural motion Winds are caused by differences of atmospheric pressure, in turn produced by temperature differences. Air flows to a low pressure region from one where a higher pressure exists

1301

force is measured according to the Beaufort scale

		Velocity in
No Wind		m, per hour
0 Crlm		U
l Light Air		2
2 Light breeze	_	. 5
2 Light breeze -	•	10
€ Moderate breezo		ĩš
5 Fresh breeze		15 21 27
6 Strong breeze		57
7 Moderate gale		35
8 Fre h ente	•	43
9 Strong gale		30
10 Whole gale		59
11 Storm		CS
12 Hurricane		
		Over 75
Sce Trade Winds		

Windermere Lake of Westmorland, the largest in England It is 10½ m long and covers about 6 sq m. The Leven takes its water to Morecambe Bay There is a station at Lakeside on the south, and steamers go along it, touching at Bowness and Waterhead

Windermere morland It is near the east side of the lake of the same name, 4 m from Ambleside, and is the terminus of a branch line of the L MS Riv The parish church has some old paintings The urban district includes Bowness on the lake Pop (1931) 5701

Windflower Name by which the mone nemorosa) is popularly known ANEMONE

Windhoek Capital of the South-West Africa Protectorate It is 170 m by railway from Walvis Bay It was entered by British forces in May, 1915, when the colony was captured from the Germans Windlass Device for raising weights of large or the colony was captured from the Germans weights be turning a capital deadle.

by turning a cranked handle

Windmill Machine which uses the form work The best-known kind is a building with sails attached, the action of the wind on the sails producing a torque, from which power is transmitted to perform work. They are now used in the form of steel sail windmills, largely to pump water for rural use, and in Great Britain as generating plants for electricity

Window Opening in the wall of a structure that admits light and air There were windows in houses in the 9th century, BC, although the Greeks dispensed with them and built their houses around courtyards The Romans were the first to glaze windows The Church has played a great part in the development of windows In Europe, the type known as French windows, high and narrow, and opening inwards, was superseded in England by the double hung type, in which the lower and upper sashes could be moved, but this again has given place to the older case ment type, opening out In many large, modern buildings, "metal" windows, with frames of pressed steel, are used, which give a maximum of light and air

maximum of light and air

In the Orient, there is very little glazing, the space being filled usually by intricately latticed wood In China and Japan, the windows are covered by paper or shell, and are arranged to slide into a case, fitted on the outside of the wall

the S and GW Rivs It includes the village of Old Windsor, 2 m to the south east. Bridges connect it with Eton Windsor is a popular boating centre and has associations with Shakespeare Pop (1931) 20,284

Windsor City and port of Ortario, Canada. It is situated on the left bank of the Detroit River, immediately opposite Detroit The two towns are connected by a suspension bridge, and a vehicular tunnel nearly a mile long Windsor is an important centre both for the manufacture of motor vehicles, and for railways connecting with American systems by means of car forries. Pop (1931) 63,108

Windsor Borough of Canada An Nova An attractive residential town, 46 m from Halifax, it is situated In a district famous for its apples It is the seat of the oldest Colonial university, King's College It is the scat In the neighbourhood are vast deposits Pop 3500 CTDSUM

Windsor House of Name of the Windsor Right Formal family King George V is regarded as the founder of the George V is regarded as the founder of the House of Windsor, having, in 1917, abandoned for himself and his family all German titles, together with the dynastic name of Saxe-Coburg Gotha The members of the royal family are King Edward VIII, Queen Mary, the Duke and Duchess of York and their two daughters, the Princesses Elizabeth and Margaret Rose, the Princesses Mary and har Margaret Rose, the Princess Mary and her husband, the Earl of Harewood, and their two Viscount Lascelles and Hon David Lascelles the Duke and Duchess of Gloucester; and the Duke and Duchess of Kent and their infant son

Windsor Castle Chief residence of the British sover vy IIII stands above the town of Windsor, from which there are two entrances. The first castle was built by William I, but the present one dates from the 14th century, with additions made in the 18th and 19th. It contains some magnificent rooms and a priceless collection of works of art. The gem of the building is St. Georgo's Chapel, a Gothic edifice restored in 1922-23. The keep, or round tower, is in the centre of the castle, and the grounds cover 12 acres. Around is the home park, and 12 acres Around is the home park, and beyond that the great park covering 3 sq m. The state apartments, round tower, stables, St George's Chapel and Albert Memorial Chapel are open to the public when the royal family are away

Windward Islands Group of the West Indies They belong to Great Britain and are the southern part of the Lesser Antilles The group consists of Grenada, St. Vincent, St Lucia and the Grenadines There and is a governor for the islands, living at St George's, Grenada but they are otherwise independent of each other Each has its own government except that there is a court of sappeal for the group The islands cover 516 sq m, and the pop is (1931) 186,299, See Grenada, St Lucia, Leeward Islands, etc

Wine Fermented juice of the grape it varies in colour from a pale yellow to the darkest red Beverage wines are made from ripe grapes, and the juice allowed to ferment naturally, without interference Fine wines are from perfect grapes, perfectly fermented, and possess "quality" Fortified Windsor Borough and market town mented, and possess "quality" Fortified wines contain a certain proportion of spirit Thames, 22 m. from London, and is reached by distilled from wine, added to raise the alcoholic

strength. Still wines are those which have been allowed to lose their carbon dioxide during the process of fermentation and sparkling wines have been kept bottled up until used, when the gas escapes in bubbles

There are vinevards in various parts of the world, including South Africa and Australia but the finest and most numerous are those in the Mediterranean basin France produces over a thousand million gallons every year

Wineland Name, often called Vinland given by the Scandinavian scamen to a part of North America which they visited in the 10th century. It was so named by Leif Ericsson because of the grapes found there. The exact locality is doubtful some there The exact locality is doubting some think it was Newfoundland and others New England

Wingate Town of Co Durham A Colliery centre, it is 9 m from Durham and 248 from London, by the L N E Rly Bricks are made here Pop 11,424 Wingfield Sculls Chief sculling race in England It is rowed every July on the Thames, from Pulney to Mortlake 41 m The winner is the amateur sculling champion of England.

Winnington-Ingram Arthur Foley British ecclesiastic Born Jan 26 1858 in British ecclesiastic Born Jan 26 1858 in Worcestershire he was educated at Marl borough and Keble College Oxford He held a curacy at Shrewsburr, 1884-85, and then became private chaplain to the Bishop of Lichfield In 1889 he became chaplain to the Archbishop of York and the Bishop of Shibay s In 1896 he became Rector of S Matthew's Bethnal Green, and in 1896 rural dean of Spitalfields He was Canon of S Paul's Cathedral and Bishop suffragan of Stepney, 1897 1901 and was made Bishop of London in the latter year. His books include London in the latter year His books include The Sword of Goliath (1926), Holiday Recollec-tions of a World Tour (1928)

Winnipes City and capital of Mapitoba, Canada. Situ ated about half way between the Atlantic and the Pacific Oceans and 60 m, north of the United, States boundary it stands at the confinence of the Assiniboine and Red Rivers, on the site of Fort Garry a Hudson Bay trading post, having in 1870 a nopulation of 215. It is now the capital of the province of Manitoba and the third largest city in Canada. It is a city of the third largest city in Canada It is a city of streets and is provided liberally with parks and squares It has the largest grain market on the American continent There are many grain elevators and flour mills, besides other industries It has two broadcasting stations (48 8 M 3 5 kW, and 25 6 M, 2 kW) Pop (1931) 217,587 beautiful and substantial houses and wide

Winnipeg Lake and river of Canada The lake, situated 40 m north of Winnipeg City, is 260 m long with an average width of 30 m. It receives the Saskatchevan the Winnipeg and the Red Rivers and empties into the Nelson, River Issuing from the Lake of the Woods, the Winnipeg River flows north west into Lake Winnipeg The largest power plants in Manitoba have been built on its banks, and supply 310 000 horse power to the City of Winnipeg and many industrial areas in Central Manitoba. Other plants being constructed have an ad-Other plants being constructed have an additional capacity of 225 000 horse-power

Lying to the west of Lake Winnipeg, it is about 120 m long, and is connected by Waterhen River with Lake Manitoba, which in turn connects through the Dauphin River with Lake Winnipeg

Winnowing Process of driving off or grain, by means of a fan This is sometimes done by hand, as in primitive countries, and sometimes by machinery

Winsford Urban district of Cheshire It stands on the Weaver, 4 m from Middlewich on the L MS Rly The chief industry is the mining of salt and there are chemical works. Pop (1931) 10,997

Winslow Market town of Buckingham-shire An agricultural centre, it is 61 m south east of Buckingham, and 54 m. from London by the L.M.S. Rly Pop 1532.

Winter Berry Shrub (Hex rerticulate) of eastern N America also known as the black alder The leaves are toothed and the small white flowers appear in early summer followed by scarlet A medicinal preparation is obtained berries from the bark

Winter Cherry Hardy herbaceous Physical (Physical) of Chinese origin. It has tall stems, oval leaves and white blossoms. After the petals drop the orange-coloured calvx becomes enlarged and distended its appearance giving the plant its familiar name of Chinese lantern

Wintergreen Genus of small herba-(Pyrola) of the order Ericaceae Pyrola rolundifolia a British species has small round leaves at the base of the plant and white flowers The American wintergreen or chickenberry (Gaul theria, procumbens) is a low-growing, aromatic plant, with white flowers succeeded by red berries. Oil of wintergreen, used for flavouring and also in unguents for external application, is obtained from the leaves. A synthetic preparation of methyl sallcylate which is its chief. property, is often used under the same name.

Winter Sports Recreations such as bogganing, and ice-hockey, which are enjoyed in winter in regions covered with snow chief centre for winter sports in Europe is Switzerland, where the season lasts from December to May, in the highest parts Winter sports are included in the programme of the Olympic Games Winter sports are held-also in the United States, Gamada, Norway, Sweden and Austria.

Threads of metal Several metals are used in its manufacture, but commercial wire is chiefly of copper, iron or steel. It is made by drawing the material steel. It is made by drawing the interior through dies, and is used for a great variety of purposes. Wire ropes are in general use and the development of electricity has created a great demand for insulated wire. Wire is also used for fencing purposes and for musical instruments

Wireless Telegraphy and Method of communication by means of electro magnetic waves. The teiegraphic systems include spark and continuous wave the signals, in morse, being produced by a key or other apparatus used to interrupt the

Other plants being constructed have an additional capacity of 225 000 horse-power by using the microphone to modulate a carrier-wave liberance practicable with the invention of the thermionic valve

Marconi constructed a workable wireless signalling apparatus in 1895, and his system was investigated by the British Government the following year. The navy successfully used the system in 1898, and in 1901 trans-Atlantic signalling was achieved. Tuning, invented by Lodge in 1897, was practically applied by Marconi. The first detectors were of the coherer type invented by Branky in 1890. coherer type invented by Branly in 1890 Later the crystal was employed. Fleming's diode valve (1904) and de Forest's triode (1906) made possible enermous advances the latter especially in its inventor's amplifying arrangement (1907) A feed back arrangement was devised by Franklin in 1913, and Meissner's 1950 of recomparation to utilise the valve as use of regeneration to utilise the valve as generator of oscillations (1913) marked another forward stage Trans Atlantic telephony was forward stage Trans Aflantic telephony was effected in 1915 by the Poulsen spark system (Arlington, USA to Paris) In 1919 Canada, and in 1924 Australia, were reached from Britain (Marconi system) Commercial telephone links with New York (1927) and Sydney (1929) followed in due course, as did the natural development of long distance ship-to-shore speech Now it is possible to speak to most of the countries of the world, and new developments of the radio telephone service are constantly being made

In 1928, while external telephony services were retained, the British Government transferred certain other wireless interests to an ad hoc merger of cable and wireless telegraphy firms See Broadcasting Microphone, Wave

Wireworm Larva of the click-beetles (Elsteridae) It is about Wireworm (Esteridae) It is about 3 in in length, and yellow in colour. The body is hard, cylindrical and shining, giving it the name of "wireworm" It has three pairs of jointed legs and very powerful jaws Wireworms are very general feeders, living on the roots of plants and scarcely any crop of fruit or vegetable is immune from their attack

Wirksworth Market town and urban It is 13 m. from Derby, on the L.M S Rly Pop (1931) 3911

Wisbech Borough, market town and river port of Cambridgeshire It stands on the Nen, 15 m from King's Lynn, A canal connects it with Cambridge The town is the centre of a market gardening district in the Isle of Ely Pop (1931) 12,005

Wisby City and scaport of Sweden, often called Visby. It is on the Island of Gottland, 150 m. from Stockholm In the Middle Ages it was one of the wealthicst and busicst of the Hanseatic towns The city walls and towers are practically intact. The port has a good modern harbour and still does a considerable trade. Pap. (1930) 10.467 does a considerable trade Pop (1930) 10,467

Wisconsin State of the United States in the angle formed by Lakes Superior and Michigan It is 56,066 sq m in extent, and has about 10,000 sq m of lake water Madison is the capital, but Milwaukee is much the largest city The state is noted for its dairy farms Maize, oats and barlev are widely grown Iron ore is mined. Wisconsin is governed by a legislature of two houses It became a state in 1848 Pop (1930) 2,939,000

cerned, death is not the end: (b) which portrays Wisdom, and (c) a historical retrospect written to show the evil results of idolatry

Wiseman Nicholas Patrick Stephen English Cardinal Born at Soville, Spain, Aug 2, 1802, he was educated at Ushaw College, near Durham, and at the English College at Rome, where he became Professor of Oriental Languages, and Rector in 1828 Consecrated as a bishop in 1840, after 1828 Consecrated as a dishop in 1021, and work in England, in 1850 he was made Cardinal Archbishop of Westminster Wiseman's pastoral aroused fears in England of "papal aggression," but his admirable Appeal to the English People, and his subsequent tact and moderation enabled him to outlive the institution openhand by his pastoral. Howard liostility engendered by his pastoral He was the founder, in 1836, of the Dublin Review He died Feb 16 1865

Wisley Village of Surrey It is 3t m. from Weybridge, on the Portsmouth Road Here are the gardens of the Royal Horticultural Society

Wistaria Genus of leguminous climbing shrubs (W chinensis) The Chinese kidney bean, it is a popular variety for growing on walls, trellis or garden arches The soft blue flowers grow in long drooping racemes Another variety is W japonica, which is a white property is a white variety

Wit Happy expression of associations between ideas or words not usually connected, so that it produces an amusing so that it produces an amusing It is a neat turn of speech, and desurpriso pends for its effect on readiness of application It is more intellectual than humour, implying, as it does, a swift perception of the incongruous

Witan Short name for the wise that met in England in Anglo Saxon times Its members were called together by the king when he wanted advice He made grants of land and took decisions of importance after taking counsel with "the witan of my people" It consisted of members of the royal family, the archbishops, bishops, abbots, and thegas It lasted until the Norman Conquest, when it was replaced by the feudal Great Council

Witch (and Witchcraft) Woman who practised sorcery, and was supposed to have dealings with the devil in times, witches generally medieval were women more knowledgeable than the others of their village, who foretold the future, and practised white magic—the gathering and browing of herbs to cure people, with benisons chanted over them, or black magic, when these things were done to work harm Witches usually had "familiars"—supposedly the devil in the disguise of a dog, cat or toad Whole villages were under the spell of these witches, and practised rites in February, May, August, and November, when sacrifices were made to the old pagan gods, and there was dancing, with much excitement and emotion Witches and witchcraft were sternly put down from the 15th century by all zealous members of all the Christian Churches, and witches were hanged, burned, and drowned

Witch Hazel (or Winter Bloom) Wisdom Book of A book of the shrub (Hamamelis virginica), resembling the written between 150 BC and 30 BC., and falls into three parts: (a) in which the author and leaves have an astringent property, and argues that as far as the righteous are conshrub (Hamamelis virginica), resembling the

Witham River of England It rises in Rutland, passes into Lincolnshire, and flows to the Wash near Boston It is 70 m long, and on it are Boston, Grantham and Lincoln It is navigable to Boston

Witham Urban district of Essex It is 38 m from London, by the L.N E Rly, on which it is a junction Here is an old church and some picturesque houses, including the Spread Eagle Inn, which dates from the 14th century There is an agricultural trade Pop (1931) 4357

Witney Urban district and market town Windrush, 10 m to the west of Oxford, on the GW Rly It is a centre of the blanket manufacture The fine old parish church is partly Norman, and there is a butter cross in the market place Pop (1931) 3409

Witt Jan de Dutch statesman Born at Dort in 1625 as leader of the wealthy bourgeois he combined with the nobles to oppose William II of Orange, and later the young prince (afterwards William III) Appointed Grand Pensionary of Holland while the Dutch were at war with England, he concluded peace in 1654 Again in 1667 he negotiated peace with England by the Treaty of Breds, and next year brought about the Triple Alliance between England, Holland and Sweden Louis XIV's invasion of the United Provinces brought about his fall and the return of William of Orange to power With his brother Cornelius he was attacked by the mob and beaten to death Aug 20, 1672

Witton Gilbert Village of Durham It is on high ground 31 m NW of Durham City Here in the 13th 34 m N W of Durham City Here in the 13th century, Gilbert de la Leq built a hospital of which all that remains is a decorated window in a farmhouse near the church of S Michael, which was rebuilt in 1867

Witwatersrand District of the Transvaal It is generally known as the Rand, and is famous for its gold mines There has been a university of this name at Johannesburg since 1922

Wiveliscombe Urban district and town of Somerset It is 9 m from Taunton and 152 from London, on the G W Rly There is an agricultural trade Pop (1931) 1262

Woad Herbaceous plant of the family Cruciferae It grows in England on chalky soil and has yellow flowers. The juice derived from the root leaves was used by the ancient Britons to stain themselves blue

Woburn Market town of Bedfordshire It is 15 m from Bedford Here is Woburn Abbey, seat of the Duke of Bedford Bullt about 1756, it contains a priceless collec-tion of works of art and stands in a park of 2400 acres There was once a Cistercian house here, but since 1547 the estate has belonged to the Russells

Wodehouse Pelham Grenville Eng wright Born at Gulidford, Oct. 15, 1881, he was educated at Dulwich For some years he was on the staff of the Globe Since 1902, when he published Pothunters, at least one work has come from his pon every year He is part author of 30 plays, among them Kissing Time and Leave it to Psmith among his storica are Psmith in the City. Percently Lyn. his stories are Psmith in the City Precadilly Jim The Inimitable Jeeves, Hot Water, and Right Ho, Jeeres (1935)

Woden see Odin

Woffington Margaret Irish actress. Oct 18, 1718, and made her London debut at Covent Garden in 1740 Her chief successes were in the parts of male characters (eg. Sir Harry Wildair in The Constant Couple), and those of society ladies (e.g., Lady Betty Modish) She was familiarly known as "Peg" Woffington, and acted with David Garrick at Drusy Lane Retiring in 1757, she died Mar 28, 1760

Woking Urban district of Surrey It is on the Wey, 24 m. from London, and is reached by the S Rly Near are Brookwood with its cemetery and crematorium, the ruins of Newark Priory, and Worplesdon Pop (1931) 29,927

Wokingham Borough and market town of Berkshire An agricultural centre, it is 7 m from Reading, and 37 from London by the S Riy Pop 7294

Wild member of the dog family Found in all northern countries Wolf its colour is usually groy, and its size and thickness of fur become less the farther south the animal lives Wolves run down their thickness of fur become less the larrance souch the animal lives Wolves run down their quarry and are killers of sheep, but when hunting in packs can overcome deer and antelopes Wolves have been extinct in Great Britain for 200 years, but France still has occasional raids, and they abound in Russia and in the Rocky Mountains

Wolf hugo Vionnese composer He was the Windischer itz (Styria)

Wolf Hugo Vionnese composer He was born at Windischgritz (Styria) March 13, 1860, and studied music at the Vienna Conservatorium His work was done under the handicap of dire poverty and towards the end of his life of brain disease, which culminated in insanity His fame as a composer rests on his songs, which number nearly 500 He died Feb 22, 1903

English soldier James Wolfe Wolfe eldest son of General Edward Wolfe, he was born in Westerham, Kent, Jan 2, 1727 He took part in the battles of Detringen, Culloden and Laffeldt In 1758, after a slege of seven weeks, he captured the fortress of Louisburg, N S His crowning achievement was the taking of Quebec, Sept 13, 1759 Having scaled the heights in the dead of night, be routed the Everphy was captured the receipt he routed the French under General Montcalm, the result being that Canada in 1760, became a British possession Both Wolfe and Monta British possession Both Wolfe and Mont-calm lost their lives in the encounter, and both are commemorated on the site of the battle

Wolfhound Name given to species of dogs used to hunt the wolf The Irish, the borzol and the Alsatian

wolfhounds are examples
Wolfram Ore from which tungsten is
extracted It is found in Malay, Spain, Australia and Colorado, and is a mixture of iron tungstate (FeWO<sub>4</sub>) and manganese tungstate (MnWO<sub>4</sub>)

Wollaton Village near Nottingham. It is 3 m to the west of the city and has coal mines Here is Wollaton Hall, built in 1580 90, an outstanding example of Elizabethan domestic architecture. In 1924 it was bought by the city of Nottingham hall was preserved, but part of the park of 790 acres was sold for building

Wollongong Scaport and pleasure Wales It is on the coast, 50 m to the south of Sydney, with which it is connected by rail-

way There is a harbour from which coal is Advocated in the middle of the 19th century

war There is a harbour from which coal is shipped Pop (1931) 10 800

Wolseley Garnet Joseph Wolseley, 1st Viscount English soldier Born in Ireland of English stock, June 4, 1833, he served in Burma in 1852, in the Crimea, Indian Mutiny China, Canada (Riel's rebellion, 1870), and Ashanti, 1873-74 For his success at Tel-el-Kebir he was made baron in 1882 His mission to relieve General Gordon (1884 85) unfortunately failed. He was made viscount in 1891, field-marshal in 1894, and was commander-inschief. 1895-1900 In and was commander in chief, 1895-1900 In 1993 appeared his Story of a Soldier's Life. He died March 26, 1913, his title passing to his daughter

daughter

Wolsey Thomas English cardinal He Wolsey was born at Ipswich about 1471, son of a grazier, and, after studying at Oxford became a royal chaplain in 1506 His rise under Heury VIII was rapid, in 1514 he became Bishop of Lincoln and Archbishop of York and in 1515 he was made cardinal Appointed Chancellor the same year, he did valuable administrative work, while as the king's chief adviser in his foreign policy of balancing the rival powers of France and Spain he was one of the leading European diplomatists. He used some of his great wealth to found the college of Christchurch Oxford, and to build Hampton Court His failure to obtain for Henry a divorce from Catherine of Aragon was the beginning of his downfall. In 1529 he was the beginning of his downfall. In 1529 he was deprived of his chancellorship and was later arrested for high treason. He died on the way to trial Nov. 29, 1530

Wolsingham Town of Co Durham, castle and 255 from London, by the LNE Rly It has steelworks and woollen mills Pop 3500

Wolstanton Urban district of Stat-from Newcastle-under-Lyme, and is a centre of the pottery industry Pop (1931) 30,528

Wolvernampton Borough and Staffordshire It is 13 m from Birmingham and 123 from London, on the G W and L MS Rivs The town is a centre of the hardware manufacture, it has also engineering works rallway shops, and makes motor cars and motor-cycles Pop (1931) 133 190 Races are held in the town, and the Association rootball club, Welverhampton Wanderers, won the Association Cup in 1893 and 1908

Wolverhampton Fowler, 1st Viscount. English politician Born at Sunderland, May 16, 1830, he became a solicitor, and in 1880 was elected Liberal M P for the borough 1880 was elected Liberal MP for the borough In 1884-85 he was under-secretary for the Home Department, and in 1886 Financial Secretary to the Treasury He was President of the Local Government Board, 1892-94, and Secretary for India, 1894-95 In 1898 he was knighted From 1905 to 1908, when he was made a viscount, he was Chancellor of the Duchy of Lancaster He died Feb 15, 1911, and his son, Henry Ernest Fowler (b 1870), became the second viscount

Wolverton Urban district of Bucking-Great Ouse, 52 m from London, and is an important point on the LMS Rly, which has works at New Wolverton Pop (1931) 12,870

by Cobden, Mill, and Disraell, the societies formed to promote it were united in a National Union in 1887 under Mrs Henry Fawcett In 1903 the Women's Social and Political Union was formed under Mrs Pankhurst (q v ), and soon developed militant tactics. In 1906 the Liberal party came into power under Asquith who was a violent opponent of the cause Suffragettes, as women suffragists were called, heckled members of Parliament, and held demonstrations. They were sent to prison and went on hunger-strike. During the World War they showed such ability and unsuspected powers of citizenship, that in 1916 a conference decided that women over 30 years old who were householders, where the bouseholders are the statement. householders, wives of householders, should be allowed to vote, and this was passed by Lloyd George's Government in June, 1917 In 1918 the Act making women eligible to sit in Parliament was passed, and in 1919 Viscountess Astor was the first to take her seat. In 1928 a Bill was passed giving complete political equality to women

In all the Dominions except South Africa, women suffrage is in force, and in most countries, except France Italy and Spain

Wombat Australian marsupal. Wombats have large flat heads, small eyes, sharp teeth and a vesticial tail. They have short, stout legs, with broad, naked-soled feet. Usually they are brownish-grey in colour, with short fur, and a naked muzzle Shy and gentle, they sleep during the day in holes and burrows, and at night go out in search of food, which consists of grass and rooks. food, which consists of grass and roots.

Wombwell Urban district of York-the Don, 7 m from Rotherham, on the L.M.S Rly, it is also served by a canal It has coal mining and from working industries. Pop (1931)

Wood Solid part of trees and plants, the source of their mechanical strength, used also to transport water and dissolved salts used also to transport water and dissolved salts from the roots to the growing parts Commercially it is classified into wood and timber (qv) Timber is wood of large dimensions only wood includes thin branches, twigs, etc., used for making baskets and brooms, soft, light wood used for insulation, floating buoys etc., and pithy woods used in making solar topees Timber is of two kinds—soft woods, derived from confers, and hardwoods produced by dicotyledonous trees such as oak, ash beech, teak, etc. Both varieties are much used in the manufacture of wood pulp and paper. in the manufacture of wood pulp and paper, artificial silk and other cellulose industries, while the finer hardwoods are used for cabinetcarving, making. etc. Sec CELLULOSE, LUMBER.

Wood Mrs Henry English novelist Born at Worcester, Jan. 13, 1814, she married in 1836, and afterwards lived mostly in France She wrote a temperance story, Danesbury House, in 1860, and her best known novel, East Lynne, in 1861, which was translated into several languages, and dramatised. Other books include The Channangs (1866), and the Languages, and the Johnny Lydden tales which proposed in the Johnny Ludlow tales which appeared in 1868, in the Argosy magazine, which she owned. She died Feb 20, 1887

important point on the LMS Rly, which has morks at New Wolverton Pop (1931) 12,870

Woman Suffrage Exercise of the mentary and municipal elections by women.

Would Sir Henry Joseph English converse the was born in London, March 3, 1869, and since 1895 has conducted the Queen's Hall Promenade concerts and since mentary and municipal elections by women.

He has also conducted the Norwich, Sheffield, Birmingham and other musical festivals, and has not only raised the standard of musical taste in England but has secured a hearing for many modern composers, British or foreign

He was knighted in 1910

Wood Sir Howard Kingsley English politician Born in 1881, he started active life as a solicitor, and served for some years on the LCO Unionist MP for Wool wich West since Dec., 1918, when he was knighted, he was Parliamentary Secretary to the Ministry of Health, Nov 1924 to June, 1929, and in Nov, 1931, became Postmaster General He is an authority on insurance and housing

Woodbridge Urban district and market town of Suffolk It is 8 m N E of Ipswich and 79 from London by the L N E Rly, and is an agricultural centre Pop (1931) 4734 Urban

Wood-Carving Process by which wood is hand-cut by sharp tools for ornamental purposes. It has been practised from the 8th century in Japan and China Wood-carring was general among the Moors, who used it for ornamented windows, frameworks, mosale cellings and windows, frameworks, mosaic ceilings and floors. The negroid races carve mostly gods and fetishes, and some household utensils Gothic, Renaissance and modern wood-carving has been used to a great extent to decorate churches

Name applied Woodchuck species of marmot is found in parts of the United States, and is known also as the ground hog Sec MARMOT

Woodcock wild bird (Scolopax rusticola) found in many parts of Europe and Asia It has a long bill which is used in digging for insects. It is grey, buff or mottled black in colour The bird nests in a or motiget back in colour the bits make in the hollow on the ground and moves about at night. It is about 14 in long and is very like the snipe. A wild bird, it is shot during the season and is regarded as a table luxury A smaller woodcock is found in North America

Woodford Urban district of London on the LNE Rly on the outskirts of Epping Forest A residential district for Londoners, it includes the areas called Woodford Wells and Woodford Green. Pop 23 946

Wood Green Urban district of Middlesex It is 5 m from the City of London, by the LNE Rly Pop (1931) 54,190

Woodball C-- Urban

Woodhall Spa Urban district of Lincolnshire Known for its mineral springs, it is 6 m S W of Horn castle and 130 from London, by the L N.E. Rly Pop (1931) 1372

Woodlouse Small crustacean of the Isopoda. It feeds on de caying vegetation, coming out at night from damp crevices, under stones, etc The body has seven segments, each with a pair of legs and for protection the common woodlouse (Onscus) can roll itself into a ball

Woodpecker Climbing birds of the feet are adapted to arboreal life, the toes being directed two forward and two backward, and the long barbed and sticky tongue is employed to get insects out of crevices in the bark etc. The nest is made in a deep hole dury in the tree truth. dug in the tree trunk. A common British species, the green woodpecker (Picus wridis) is about 12; in long, the plumage olive green,

yellow to grey on rump and under parts head and nape of neck are crimson, with a black cheek Others found less abundantly in Britain are Dendrocopus major and minor, the greater and lesser spotted woodpeckers, 9 in and 6 in in length respectively

Woodruff Wild herb (Asperula odorata) of the natural order Rubia ceae The slender erect stems, about 12 in in height, bear whoris of bright, smooth leaves, placed one above another and surmounted by a flowerhead of very small funnel shaped white blooms. The plant has little fragrance until gathered and dried, when it gives out a scent receptibility that resembling that of new mown hay

Voodrush Genus of perennial plants (Luxula) They have short, grass like leaves, with a hairy edge, and clusters of brown flowers borne in small sprays. The hairy woodrush has clusters of chestnut brown flowers, the leaves only slightly haired. The great hairy woodrush (*L maxima*) is of larger growth, with large cymes of pale flowers. Other varieties include the field woodrush (*L cam*pestris), and the mountain species (L spicata and L arcuata)

Wood Sorrel Perennial wild herb (Oxalis acciosella) It is native to the British Isles The rootstock is creeping, the heart shaped leaves grow in threes, resembling the clover leaf. The five threes, resembling the clover leaf The five petalled flowers are borne singly and are white, veined with soft purple or pink. The seed capsule at the slightest touch discharges the seeds forcibly for some distance

Woodstock Borough of Oxfordshire and 8 from Oxford, on the GW Rly The place is famous for its association with the palace built by Henry I This has now dis appeared. Gloves are made in the town, near which is Bienheim (an) Pon (1931) 1484 which is Blenheim (qv) Pop (1931) 1484

Woodstock Town in Ontario It is splendid agricultural district, has a population of 11 000

Wood Swallow Genus of insective rous birds (Art ansus) They are natives of Australia, Polynesia, India, and islands in the Indian Seas The conical beak is somewhat curved and sharp tipped the tall short, and the wings long They are swift in flight and very fearless

Woodworm Larvae of certain beetles, so called because it feeds on wood To destroy the worms brush the wood with a solution of formalin Carbolic acid and paraffin are also recommended. Another method is to fumigate the affected piece of furniture

Wookey Village of Somerset. It is a mile from Wells, in the Mendip

Hills Here is the Wookey Hole, a cave 500 ft. long, in which the river Axe rises

Wool Coat of sheep It is one of the most important textile fibres. Most of the wool used is of one year growth which is often washed on the sheep, and then sheared It is then sent away sorted according to fineness, scoured and dried by hot air, and finally teased to make it loose

Wool manufacture was established in Britain by the Romans, to clothe the army of occupa-tion. Through the Middle Ages successive kings introduced Flemish weavers into England, and discouraged the exportation of raw wool Until the erd of the 18th century, when the cotton trade developed, the woollen industry

was by far the most important in the country. Australian and South African wool is very important the merine sheep of Spain having country town. It stands on the left bank of the been introduced into those countries about the beginning of the 19th century. To-day the great British woollen industry has its chief L. W.S. Rives. The chief building is the cathedral with the restriction. beginning of the 19th century To-day the beginning of the 19th century To-day the great British woollen industry has its chief centres in Yorkshire, especially at Bradford, Dewsbury and other places in the neighbourbood, which is known as the "heavy woollen" district." but it is also carried on in a number of towns in the west and south. Both masters and men have strong unions and organisations for dealing with wares and other questions. The industry is protected by a tariff on imported wooller goods introduced in 1931 and revised in 1932. In 1931 to help to relieve the depres-sion, an Imperial World Fair was held in Bradford, which with its merchants and brokers is the English wool metropolis

The world's annual output of wool (1932) is about 1 600,000 tons, of which Australia produces 400,000 tons. This is chiefly sold in Sydduces 400,000 tons nev, which is the greatest wool mart in the world

Other producing countries are Russia the United States, Argentine South Africa and New Zealand The Lriftsh output, though excellent in quality, is quite small

Wooler Town of Northumberland. In an agricultural district, 15 m from Berwick-on-Tweed, it is picturesquely placed on the edge of the Cheviot Hills Woolley Frank Edward English crick eter Born at Tonbridge, May 27, 1887, he joined the Kent team as a professional in 1908. A left handed batsman his tribe of play is remarkably attractive and he style of play is remarkably attractive and he has been a very useful howler. In seven sensons he has taken over 100 wickets for Kent, and he is one of the few batsmen who have scored over 100 centuries. In 1928 he scored 3352 runs. Wooller has played for England against Australia and has been to Australia several times. His batting average for 1935. was 11 76

District Woolmer Forest Hampshire It is near Alton, and stretches into Sussex. At one time it was Crown property

Woolsack Sent in the House of Lords on which its president, the Lord Chancellor, sits, originally a sack of wool

Woolwich Berough of the county of South of the Thames, 9 m from the city on the S Rly It includes a small area on the north bank of the river, as well as the districts of Plumstead and Eltham The chief object of interest is the royal arsenal dating from the 17th century Woolwich is also the head-quarters of the Royal Artillery and has barracks, near which is the Royal Military Academy for training officers for the artillery and engineers A steam ferry and a tunnel for and engineers. A steam ferry and a tunnel for foot passengers connect the two sides of the river. Pop. (1931) 146 944

Woolworth Frank Wintled American merchant Born near Rodman, NY, April 13 1852 after two failures he opened a 5, 10, and 15 cent store in New York City Ina few years he had hundreda of branches all over the States, and by 1912 had grown rich enough to erect the Woolworth Building in New York at that time the highest commercial building in the world His stores have spread over England and His stores have spread over England and Scotland and are to be found in several Con-tinental capitals. He died April 8, 1919, worth \$27,000,000

with a magnificent control tower. Other old buildings include the Tudor Commandery, the old churches of S. Helen and Holy Trinity remains of a castle, etc. King's School is an old foundation and there are some old houses on the Commarket The chief industries are the making of gloves, boots vinegar and sauces The porcelain works, established in 1751, are celebrated. There are also engineering works and it is an agricultural centre Pop (1931)

50,497
The Battle of Worcester was fought just outside the town between the English and the Scots Sept 3 1631 The English under Cromwell crossed the river and made their war into the city, which the Scots were defending This was soon in their possession and Charles II became a fugitive

Worcester City of Massachusetts It is on the Blackstone River. 45 m from Boston and on several lines of railway Hore is Clark University. Pop. (1930) 193 311

Worcestershire County of England, it is one of the midland shires and covers 716 sq m The Malvern, Cotswold, Licker Clent and other hills are in the county The chief there are the Severn Avon. Stour an I Teme Worcester is the county town, other places are Dudley Stourport, Stourbridge Kidderminster Droutwich, Evesham and Ma! vern. In the north is part of the Black Country and some of the suburbs of Birmingham, bur elsewhere it is agricultural The county is famous for its plums, apples and other fruit also for its hops Wheat and other cereals are Pop (1931) 420,156 grown Pop (1931) 420,156
The Worcestershire Regiment is the old 29th

and 36th Foot It dates from 1694, and has a fine record of service including the Great War The depôt is at Worcester

Wordsworth William English poet. Born at Cookermouth, Cumberland, April 7, 1770, he was educated at Hawkshead and St. John's College, Cambridge. In 1790 he visited the continent and he spent In 1790 he visited the continent and he spent a vear in France where he sympathised with the Revolution An Evening Wall and Descriptive Skelches (1793) opened his poetic career, and Lyrical Ballads, produced with S T Coleridge in 1798, established his name. After a visit to Germany, 1798-99, he settled at Grasmere, Westmorland, and in 1802 married Mary Hutchinson In 1813 he settled to the delivery when he married that the at Rydal Mount where he remained till his death, April 23, 1850 In 1843 he had succeeded Southey as poet laureate

One of the greatest of English poets, his finest work was done before 1807, including the Ode to Duty and the Ode on Intimations of Immortality, but he published up to 1835 many Immortality, but he published up to 1835 many of his finest sonnets falling in the later period. Other notable poems are The Prelude, a spiritual autobiography, Tintern Abbey, the Sonnet Composed on Westminster Bridge and Sonnets Dedicated to Liberty. Wordsworth's sister, Dorothy Wordsworth (1771-1855), who lived with him, left some valuable Journals and is believed to have assisted the poet in his studies of nature and wonth life.

rustic life.

Great Britain The feathers are shaded brown, the short tail erect and the movements quick and restless. The domed nest has an aporture at the side, and is lined with feathers, hair or wool The reliewish white eggs are spotted with light brown, and usually number 6 or 8

Wren Sir Christopher English architect He was born at East Knoyle, Wiltshire, Oct 20, 1632, and educated at Westminster and Oxford, where he should great apilitude for mathematics and science From 1657 onwards he lectured for several years in Oxford and London on astronomy Depulved a Callega Comprising and the Shell Pembroke College, Cambridge, and the Shel donian Theatre, Oxford, were both designed by him After the Great Fire of 1666 he built a new S Paul's Cathedral and furnished plans for over 50 other churches that had been destroyed He also drew up elaborate plans for the improved rebuilding of the entire city He was knighted in 1672, died Feb 25, 1723, and was buried in S Paul's Cathedral

Wrestling Form of athletics Wrestling among the Greeks and Romans and formed a regular feature of the Olympic Games The art of Ju-Jitsu, which differs considerably from wrestling, in that it seeks to defeat an opponent by disablement if he fails to yield, has also been practised by the Japanese from the earliest times In Catch-as-catch can contests England the formation of a National Wrestling Association has prevented the decay of the sport in this

Wrexham Borough and market town of Donbighshire It is on the little River Clwyedog, 12 m from Chester and 183 from London, and is reached by the GW and LMS Rlys Brewing and malting are the principal industries Pop (1931) 18,567

Wright Orville American aviator He was born at Dayton, Ohio, Aug 19, 1871 With his brother, Wilbur (d., Aug 19, 1811 With ins brother, wholf (d., 1912) he succeeded, after years of experimenting, in making the first flight in a heavier-than-air machine, Dec 17, 1903, at Kitty Hawk, North Carolina The brothers, on Sept 12, 1908, established a second record by remaining in the air for 75 minutes in an improved aeroplane In 1909 the French Academy awarded Orville a gold medal, and in 1917 he was made Major, USA Aviation Corps

Wright Whitaker English financier He was born Feb 9, 1845, studied chemistry, and went to the United States in 1866 as an assayer During his 23 years there, he made and lost three fortunes, chiefly in mining Returning to England he floated several companies The crash, in 1900 of the largest the Lendon and (Alaba ne noated several companies The crash, in 1900, of the largest, the London and Globe Finance Corporation, caused widespread ruin, and Wright was charged with publishing false balance sheets Convicted, Jan. 26, 1904, he swallowed cyanide of potassium after hearing the sentence pronounced

Wrington Village of Somerset. It is from London, by the GW Rly

Wrinkles Ridges or furrows on the face or forehead Though caused largely by old age, wrinkles may be increased by unhygienic factors such as mainutrition, the abuse of tea, coffee, alcohol and tobacco, constipation, worry, ill-temper, and lack of the S Rly Pop (1931) 4510

fresh air An astringent lotion or a facewash made from a piece of Paschki's Paste about the size of a hazel nut and rubbed up in 1 quart of water may lessen the intensity of the wrinkles such drastic methods as operative removal should never be employed

Wrist Joint in the human body by which the hand is united to the arm. The anatomical name is the carpus It has an anterior a posterior and two lateral ligaments. The wrist is liable to dislocation Wrist drop, in which the hands hang down when the arms are outstretched, is a form of paralysis, frequently due to lead and alcohol poisoning

Writ Document issued by a court of law ordering someone to do something Limost all law cases of importance, except criminal cases, begin with the issue of a writ by the plaintiff on the defendant. Certain fees must be paid and the writ served on the defendant in person or given to his solicitors

Writs are also issued for the election of members of the House of Commons These are sent by the Speaker to the mayors, high sheriffs, provosts and others, ordering them to arrunge for the election of a member, in some cases two, by a certain date

Writer's Cramp Affliction due to the pen It is also found among persons who play the piano or violin, compositors, tailors, and others who use the hands a good deal It begins as cramp and after a time the muscles refuse to act Great pain accompanies an attempt to do so, in serious cases paralysis results The only cure is complete rest for the hands, but massage and electrical treatment are helpful

Writing Forming letters and words by literary composition. The earliest kind of writing was done by carving ideographs or pictures, each representing an idea, on stone bone or other hard material. This may have been in existence as early as 4000 or 5000 BC, and developed forward through the cuneiform and hieroglyphic writing as used by the Assyrians and Egyptians. The invertion of papyrus made writing easier, and in course of time the cursive form became general European alphabets were derived from the Phoenician. Small as well as capital letters were used, and cursive script spread over a good part of Europe. To make the signs the quill pen came into use, and the invention of paper gave a great impetus to writing. In the 19th contury the steel pen largely supplanted the quill, and the ability to write, hitherto confined to a minority, became general.

Much of the handwriting of the Middle Ages. which was done almost entirely by monks, was extraordinarily beautiful, and the tradition of good calligraphy persisted into the 19th century Before the invention of printing did away with the need for writing books and the like by hand, a different script in which abbreviations were greatly used was employed for these After the invention of the steel pen the quality of the handwriting deteriorated, but soon the invention of the previation satisfies. soon the invention of typewriting made it un

1308

Workhouse British institution in tained In England it is controlled under regu lations passed by the Ministry of Health The inmates are strictly disciplined and unless aged and infirm, work for what they receive

Workington Borough and seaport of cumberland It stands at the mouth of the Derwent, 34 m from Carlisle and 320 from London, on the LMS Rly The chief industry is coal mining there are also iron and steel works Pop (1931) 24,691

### Workmen's Compensation

In Great Britain a system by which workmen or their families receive compensation for death or accident during employers usually cover their liability by policies for house holders usually include insurance against

accidents to servants

The law is contained in a measure passed in 1925 which consolidated the earlier acts It applies to all manual workers, and to other workers provided they receive not more than 2000 a year To succeed in a claim the worker or his representative, must prove that the accident from which he suffered was not due to his own negligence There are elaborate rules for calculating the amount that shall be paid It may be as high as 50 per cent of the man's earnings, but may never exceed £1 10s a week If the worker is killed a sum not exceed ing £600 may be paid to his dependants 1930 £5,875,348 was paid out in compensation the number of cases being 444,880 The largest amounts went to coal miners

Works Office of English Government Department It is under the control of a First Commissioner all the secre taries of state and the President of the Board of Trade Its main duty is the maintenance of Trade Its main duly is the maintenance of the royal palaces and governmental build ings and parks open to the public It also has control and care of ancient monuments

Worksop Borough and market town of Nottlinghamshire It is 146 m from London and is reached by the LNE and LMS Rlys The church with its Norman nave is a fine building At one time there was a priory here and of it there are some remains, including the lady chapel restored as a war memorial Worksop College is a public school for boys Worksop has a cattle market and manufactures of chemicals and agricultural implements Pop 26 286

Worm Name applied loosely to many unrelated organisms with a long thin body Thus there are the silk worm ship worm, lob worm blind worm, earth worm tape worm, marine and freshwater worm, thread worm and other parasites infesting man and animals

Worm In mechanics a screw thread on a shaft which engages the teeth of a gear wheel. A common application is in a reduction gear, the worm being the driving member and causing the worm wheel to rotate at a slower speed than the driving speed, according to the gear ratio See GEAR.

Worms German city It is situated on the Rhine in the republic of Hesse One of the most ancient towns of Germany, it is the scene of the Niebelungeniled etory in the struggles between the Church and the Holy Roman Empire, the powerful and Asiatic countries, and is common in

bishops of Worms supported the Church against the citizens, who favoured the emperors It possesses a fine Romanesque cathedral of the 12th century and is now important because of its manufactures and vine-cultivation Pop 47 015

Wormwood Herbaceous perennial plant (Artemisia absin aromatic properties It varies from I to 3 ft in height the stems are rough and branching, the silky leaves are segmented and flat at the edge. The flower head is composed of drooping racemes of small yellow flowers, seed being developed from the outer ones only It is common to many countries and grows wild in some localities in the British Isles

Wormwood Scrubs District of London, It is about 6 m to the west of the city, on the NL Rly Here is a large open space and a

prison.

Worsborough Urban district of Yorkshire (WR) A colliery centre it is 3 m S of Barnsley, and 173 from London by the LNE Rly, Dovecliffe being its station Pop (1931) 12,397

Worth tume designer He was born in Bourne Lincolnshire, in 1825 In 1846 he went to Paris spending 12 years in a silk house In 1858, in partnership with a Swede named Dobergh, he began dress designing He secured the patronage of the Empress Eugenie secured the patronage of the Empress Eugenie, and through ber of the fashionable world, thus lecoming the arbiter of French fashions. He died March 10, 1895

Worthing of Sussex. It is 61 m. from London and 8 from Brighton, on the S Rly There is a fine parade and several public gardens with tennis courts bowling greens, etc. In 1932 the erection of a new town hall was begun. In 1929 the area of the borough was retained by the inclusion. was extended by the inclusion of Goring and other outlying areas Pop (1931) 46 230

Woundwort Family of herbaceous plants (Stachys) of the labiate order The common hedge woundwort (8 sylvatica) has rough hard branching stems, toothed heart shaped leaves and is densely covered with soft bristles The flowers grow in whorls of six or more round the stem and and are purplish red or rich crimson, two lipped, with white on the elongated under lip

Wrangel Island in the Arctic Ocean It lies off the coast of Siberia

and is administered by Canada
Wrangler Word used for a class of
graduates at Cambridge University It was given in the Middle Ages to one who took part in the disputations that were then the tests of knowledge Later, until 1909 it was given to one who took a first class in the first part of the mathematical tripos. The senior wrangler headed the list and the rest were numbered in order of merit. Alphabetical class lists were adopted in 1909

Wrath Cape of Sutherlandshire The most north westerly point of Great Britain, it is over 500 ft. high On it is a lighthouse

Great Britain The feathers are shaded brown, the short tall erect and the movements quick and restless. The domed nest has an aperture at the side, and is lined with feathers hair or wool. The vellowish white eggs are spotted with light brown, and usually number 6 or 8

Wren Sir Christopher English architect. He was born at East Knoyle, Wiltshire, Oct. 20, 1632, and educated at Westminster and Oxford, where he showed great aptitude for mathematics and science From 1657 onwards he lectured for several years in Oxford and London on astronomy Pembroke College Cambridge, and the Shel donian Theatre Oxford, were both designed by him After the Great Fire of 1666 he built by him After the Great Fire of 1666 he built a new S Paul's Cathedral, and furnished plans for over 50 other churches that had been destroyed He also drew up elaborate plans for the improved rebuilding of the entire city He was knighted in 1672 died Feb 25, 1723, and was buried in S Paul's Cathedral

Wrestling Form of athletics Wrestling among the Greeks and Romans and formed a regular feature of the Olympic Games. The art of Ju Jitsu, which differs considerably from wrestling in that it seeks to defeat an opponent by disablement, it he fails to viold here also by disablement if he fails to yield, has also been practised by the Japanese from the carliest In Catch-as-catch can contests England has met with little success in recent years, but the formation of a National Wrestling Association has prevented the decay of the sport in this

Wrexham Borough and market town of Denbighshire It is on the little River Clwycdog, 12 m from Chester and 183 from London, and is reached by the GW and LMS Rlys Brewing and malting are the principal industries Pop (1931) 18,567

Orville American aviator Wright Orville American aviator He was born at Dayton, Ohio, Aug 19, 1871 With his brother, Wilbur (d., 1912) he succeeded, after years of experimenting, Ohio, in making the first flight in a heavier-than air machine, Dec 17, 1903, at Kitty Hawk, North Carolina The brothers, on Sept. 12, 1908, established a second record by remaining in the air for 75 minutes in an improved acroplane In 1900 the French Academy awarded Orville a gold medal, and in 1917 he was made Major, USA Aviation Corps

Wright Whitaker English financier studied chemistry, and went to the United States in 1866 as an assaver During his 23 years those here and less than the made and t States in 1866 as an assaver During his 23 years there, he made and lost three fortunes, chiefly in mining lecturning to England he floated several companies. The orash, in 1900, of the largest, the London and Globe Finance Corporation, caused widespread ruin, and Wright was charged with publishing false balance sheets. Convicted, Jan. 26, 1904, he swallowed cyanide of potassium after hearing the soutence pronounced. the sentence pronounced

Wrington Village of Somerset. It is from London, by the G W Rly

Wrinkles Ridges or furrows on the face or forehead Though caused by unhygienic factors such as mainutrition, the abuse of tea, coffee, alcohol and tobacco, constipation, worry, ili-temper, and lack of the S Rly Pop (1931) 4510

fresh air An astringent lotion or a facewash made from a piece of Paschki's Paste about the size of a hazel nut and rubbed up in 1 quart of water may lessen the intensity of the wrinkles such drastic methods as operative removal should never be employed

Wrist Joint in the human body by which the hand is united to the arm. The anatomical name is the carpus. It has an anterior a posterior and two lateral ligaments. The wrist is liable to dislocation. Wrist drop, in which the hands hang down when the arms are outstretched, is a form of paralysis, frequently due to lead and alcohol poisoning

Writ Document issued by a court of law ordering someone to do something Almost all law cases of importance, except criminal cases begin with the issue of a writ by the plaintiff on the defendant Certain fees must be paid and the writ served on the defendant in person or given to his solicitors Writs are also issued for the election of members of the House of Commons These are sent by the Speaker to the mayors, high sheriffs, provosts and others, ordering them to arrange for the election of a member, in some cases two, by a certain date

Writer's Cramp Affliction due to the pen. It is also found among persons who play the piano or violin, compositors, tailors, and others who use the hands a good deal begins as cramp and after a time the muscles refuse to act Great pain accompanies an attempt to do so, in serious cases paralysis results The only cure is complete rest for the hands, but massage and electrical treatment are helpful

Writing Forming letters and words by pen or pencil, also the act of literary composition. The earliest kind of writing was done by carving ideographs or pictures, each representing an idea, on stone bone or other hard material. This may have been in existence as early as 4000 or 5000 B C, and developed forward through the cuneiform and hieroglyphic writing as used by the Assyrians and Egyptians The invertion of papyrus made writing easier, and in course of time the cursive form became general Eurotime the cursive form became general European alphabets were derived from the Phoenician Small as well as capital letters were used, and cursive script spread over a good part of Europe To make the signs the quill pen came into use, and the invention of paper gave a great impetus to writing In the 19th contury the steel pen largely supplanted the quill, and the ability to write, hitherto confined to a minority, became general

Much of the handwriting of the Middle Ages, which was done almost entirely by monks, was extraordinarily beautiful and the tradition of good calligraphy persisted into the 19th century Before the invention of printing did away with the need for writing books and the like by hand, a different script in which ab-breviations were greatly used was employed for these After the invention of the steel pen the quality of the handwriting deteriorated, but soon the invention of typewriting made it un-necessary for most business purposes, although it is still used to some extent for legal docu-

Wrotham Urban district of Kent. It is 30 m. from London by

Wroxeter Village of Shropshire. It is (a comedy), The Plain Dealer, and The Way on the Severn 6 m. from of the World Re died Jan 1, 1716

Shrewsbury It is chiefly known as occupying XXIII and a District of Oxfordshire the site of the Roman city of Viroconium.

Wryneck Bird of the woodpecker family name is derived from its habit of twisting its neck about in feeding It is 7 in long, the plumage being grey above mottled and streaked with black the under parts yellowish with darker arrow-like markings

Wuchang City and river port of China It is on the Yang tse Kiang, opposite Hankow, and is a great trading centre with manufactures of various kinds Its population is included in that of Hankow (q v) Its

Wychwood District of Oxfordshire It lies near Charlbury, between the Rivers Evenlode and Windrush. and was once a forest, a name which it still retains, elthough little of the original forest remains

Wycliffe John English Reformer Born about 1324, he became Misster of Balllol College, Oxford, about 1360 and in 1374 was presented to the rectory of Lutterworth, which he held till his death A scholar and theologian, he attacked the abuses in the Church par ticularly the worldly power and evil lives of the

1919

Wyndham George Linglish states born in London, Aug 29, 1863, and educated at Liton and Sandhurst. He served through the Sudan campaign of 1885. In 1887 he became private secretary to Arthur Balfour, and in 1889 he was elected unopposed as MP for Dover, a seat he held until his death in Paris, June 6, 1913. He held the post of Chief Secretary for Ireland during the difficult years 1900-1905. In his leisure moments he wrote for the National Observer and the Acu

knighted in 1902, and died in London, Jan 12, | Review, also valuable monographs on Shakespeare and Ronsard



nagging

Xanthus City of Lycia It was on the from its mouth It was twice destroyed, first by Harpagus, the Persian, in 516 B.C., then by M Junius Brutus in 42 B.C. After this second destruction it was not restored

Xanthus was another name for the River

Seamander in Troas

X avier Francis Spanish missionary and saint He was born at Xavero, at the foot of the Pyrenees, on April 7, 1506, and was one of the seven original members of the Society of Jesus founded by Ignatius Loyela in 1531 His missionary activities included work in India and the E Indies, 1541-47, a mission to Japan, 1549-51, and another to China where he died, Dec. 2, 1652 He was canonised in 1621

Xenocrates Greek philosopher He was born at Chalcedon in 396 nc and became a disciple of Plato, whom he accompanied (361) to syracuse In 339 he succeeded speusippus as President of the Old Academy—a position which he held till his death in 314. In philosophy he modified the Platonic system by introducing the Pythagorean dectrine of numbers.

Athenian soldier and Xenophon writer Born about 435 BC, he was a pupil of Socrates, and one of the 10,000 Greeks who fought in the army of Cyrus of Persia On his return to Greece, he entered the service of Agesilaus, King of Sparta, and fought for the Lacedaemonians against the Athenians at Coronea, 304 B c He then retired to Scillus, near Olympia, where he wrote his Anabasis, in which he tells

ANTHIPPE Wife of Socrates. Socrates have been been by her continual talk. He died at Corinth about 355 B C

Xerxes King of Persia, 485-465 Eo. second Persian expedition against Greece in 180 B C. The Persians defeated the Greeks at Thermopylae, and were then defeated on sea at Salamis A further defeat at Plataca in 479 led Xerxes to abandon his attempt to conquer the Greeks He was assassinated in 465 BC

X-Rays (or Rontgen Rays) Invisible penetrative rays discovered by W K Rontgen in 1895 Produced by passing an electric current of high potential through a vacuum tube, the rays penetrate many substances opaque to light, and, by their effect of easting a shadow of bony parts, are of great value in the diagnosis of fractures, tolant, disputers atc. Irradiation by the joint disorders etc Irradiation by the Röntgen rays is a method of treating cancerous growths, skin disorders, etc They have been investigated and used extensively in science notably in the examination of crystal structure

Xylene Name of one of three isometric hydrocarbons (C,H,CH,) of the benzine series. They are found in coal and wood tar, and can also be made artificially Commercial xylene, which contains all three forms is used as a solvent, and in the making of aniline dyes

Xylophone Percussion instrument, tras It consists of a series of wooden staves in the form of a half cylinder, at intervals of a semitone It is played with small wooden hammers and has a range of two or three octaves.

Wroxeter Village of Shropshire. It is (a comedy), The Plain Dealer, and The Way of the World He died Jan. 1, 1716
Shrewsbury, It is chiefly known as occupying \tau\_{\tau\_1} \tau\_{\tau\_2} \tau\_{\tau\_1} \tau\_{\tau\_2} \tau\_{\tau\_1} \tau\_{\tau\_2} \tau\_{\tau\_1} \tau\_{\tau\_2} \tau\_{\tau\_1} \tau\_{\tau\_2} \tau\_{\tau\_1} \tau\_{\tau\_2} \tau\_{\tau\_2} \tau\_{\tau\_1} \tau\_{\tau\_2} \tau\_{\tau\_1} \tau\_{\tau\_2} \tau\_{\tau\_1} \tau\_{\tau\_2} \tau\_{\tau\_1} \tau\_{\tau\_2} \tau\_{\tau\_ the site of the Roman city of Viroconium.

Wryneck Bird of the woodpecker family name is derived from its habit of twisting its neck about in feeding It is 7 in long, the plumage being grey abovo, mottled and streaked with black the under parts yellowish with darker arrow like markings.

Wuchang City and river port of China opposite Hankow, and is a great trading centre, with manufactures of various kinds Its population is included in that of Hankow (q v )

Wurttemberg Republic of Germany west of the country, between Switzerland, Bavaria and Baden and covers 7536 sq m Stuttgart is the capital, other places are Ulm, Hellbronn and Esslingen Agriculture is the principal occupation and the vine is largely grown The rivers include the Nechar and the Danube, and a part of the Black Forest and the Jura Mts are in the state There is a good deal of forest land

Since 1918 Wirttemberg has been a republic It is governed by a diet or landtag of 80 mem bers elected by universal suffrage for 4 years.

bers elected by universal suffrage for 4 years, and a small ministry under a president. For several centuries after 1250 Württemberg was ruled by its counts and dukes. In 1805 it was made a kingdom, and in 1871 joined the German Empire The kingdom lasted until 1918 Pop (1925) 2,580,225

Wurzburg City of Bavaria. It is situated on the Main, and is an ancient city with a Romanesque cathedral and a university founded in 1552. There is a vast 18th century palace, at one time the residence of the powerful prince bishops, later the property of the King of Bavaria. The city, which became finally Bavarian in 1815, is in the midst of some of the finest vineyards in the midst of the finest vine Germany Its manufactures include machinery, scientific instruments, pianos and tobacco Pop 89,910

Wyandot Tribe of North American Indians They were found in Canada early in the 17th century and later lived in the valley of the Ohio

A breed of domestic fowl is called the Wan-

dotte It was first bred in America In colour the breeds are white and black and the hens are good for both laying and sitting

Wyat Sir Thomas. English diplomat and poet Born about 1503, he was a favourite of both Henry VII and Henry VIII, and was sent on several foreign missions. He also gained renown by his poetry. He died Oct. 11, 1542

His son, also named Thomas, was born about 1520, and saw military service on the Continent between 1544 and 1550 Later he cooperated with the Duke of Suffolk, father of Lady Jane Grey, was taken prisoner and executed April 11, 1554

Wychwood District of Oxfordshire It lies near Charlbury, between the Rivers Evenlode and Windrush. and was once a forest, a name which it still retains, although little of the original forest

Wycliffe John English Reformer Born Hipswell, Yorkshire, about 1324, he became Master of Balliol College, Oxford, about 1360, and in 1374 was presented to the rectory of Lutterworth, which he held till his death A scholar and theologian, he attacked the abuses in the Church, par-ticularly the worldly power and evil lives of the clergy He also denied the doctrine of transubstantiation, but as he was supported by John of Gaunt, he escaped condemnation for heresy The first complete translation of the Bible into English is associated with his name The forerunner of the Protestant reformers, he influenced considerably the teaching of John Huss (qv) His followers were called Lollards and their preaching fomented the popular discontent which showed in the Peasants' Revolt of 1381 He died Dec 31, 1384

Wye Britain The most famous rises in Montgomeryshire on Plinlimmon and flows through Radnorshire and then into England, where after passing through Herefordshire, it divides that county from Wales It is 130 m. long, and enters the estuary of the Severn at Chepstow It passes by Hereford and Monmouth and receives the waters of the Elan, Lugg, Monnow and other rivers The scenery in the Wye valley is regarded as among the most beautiful in the country

Another Wye is in Derbyahire, being a tributary of the Derwent, and another is a porthern tributary of the Thames

northern tributary of the Thames

Wye Village of Kent. It is 10 m. 8 W of Canterbury, and 61 from London by the S Rly Here are the South-Eastern Agricultural College and a racecourse

Wykeham william of English bishop Wickham, Hampshire, in 1324, he became surveyor of royal castles under Edward III In 1967 he was appointed Bishop of Winchester and Chancellor He founded New College, Oxford, in 1380, and in 1388 1394, Winchester School Between 1394 and 1404 he was responsible for considerable building at Winchester Cathedral, and was burled there in 1404 in the chantry he had built.

Wymondham Market town of Nor-look It is 10 m from Norwich and a junction on the L.N.E. Rly. Pop 4810

Wynberg District of Capetown It is from the city It is famous for its vines.

Wyndham Sir Charles English actor Born in Liverpool, March 23, 1837, he studied medicine and surgery, and served as army surgeon in the American civil war On his return to England he acted with Irving and Ellen Terry His most famous Wycherley William English drama and surject the Was born about 1640 at Clive, near Shrewsbury He went to Oxford leaving without a degree, and entered the Middle Temple He began to write plays early, among them, The Country Wife (coarse, but excellently constructed), Love in a Wood 1837, He studied incoming and surject, and served as army surgeon in the American civil war On his return to England he acted with Irving and Ellen Terry His most famous limpersonation was David Garriok, in Robert and Surject, and Surject, and served as army surgeon in the American civil war On his return to England he acted with Irving and Ellen Terry His most famous limpersonation was David Garriok, in Robert and Surject, and served as army surgeon in the American civil war On his return to England he acted with Irving and Ellen Terry His most famous limpersonation was David Garriok, in Robert and Surject and Surje 1919

Wyndham George Fnglish states born in London, Aug 29, 1863, and educated at Eton and Sandhurst. He served through the Sudan campaign of 1885 In 1887 he became private secretary to Arthur Balfour, and in 1889 he was elected unopposed as MP for Dover, a seat he held until his death in Paris, June 6, 1913 He held the post of Chief Secretary for Ireland during the difficult years 1900-1905 In his leisure moments he wrote for the National Observer and the New houses Pop (1930) 225,565

knighted in 1902, and died in London, Jan 12, | Review, also valuable monographs on Shakespeare and Ronsard



nagging

Xanthus City of Lycia It was on the River Xanthus, about 8 m from its mouth It was twice destroyed, first by Harpagus, the Persian, in 616 B.C., then by M Junius Brutus in 12 B.C. After this second destruction it was not restored Yanthus was another page for the Plant

Xanthus was another name for the River Scannander in Treas

Scannander in Trons
Xavier Francis. Spanish missionary and saint He was born at Xavero, at the foot of the Pyrenees, on April 7, 1506, and was one of the seven original members of the Society of Jesus, founded by Ignatius Levela in 1534 His missionary activities included work in India and the E Indies 1541-47, a mission to Japan, 1549-51, and another to China, where he died, Dec 2, 1652 He was canonised in 1621

Xenocrates Greek philosopher He in 396 nc and became a disciple of Plato, whom he accompanied (361) to Syracust In 339 he succeeded Spousippus as President of the Old Academy—a position which he held till his death in 314 In philosophy he modified the Platonic system by introducing the Pythagorean doctrine of numbers

Athenian soldier and Xenophon writer Born about 435 ACTIONITY writer Born about 435 n.c., he was a pupil of Socrates, and one of the 10,000 Greeks who fought in the army of Cyrus of Porsia On his return to Greece, he entered the service of Aguslaus, King of Sparta, and fought for the Lacedaemonians against the Athenians at Coronea, 394 n.c. He then retired to Scillus, near Olympia, where he wrote his Anabasis, in which he tells

ANTHIPPE Wife of Socrates. His Cyropaedia, professing to be a description of the was noted for her pecylshoness and ill temper Some cesar embodying his ideas on education, say that Socrates married her while his brilliant dialogue, the Symposium, in order to mortify his gives us a picture of Socrates and his table-spirit by her continual talk. He died at Corinth about 355 B C

Xerxes King of Persia, 485-465 Bc. second Persian expedition against Greece in 480 Bc. The Persians defeated the Greeks at Thermopylae, and were then defeated on sea at Sa'amis A further defeat at Plataca in 470 led Xerxes to abandon his attempt to conquer the Greeks He was assassinated in 465 BC

X-Rays (or Rontgen Rays) Invisible Produced by Penetrative rays discovered by W K Rontgen in 1895 Produced by passing an electric current of high potential through a vacuum tube, the rays penetrate many substances opaque to light, and, by their effect of casting a shadow of bony parts, are of great value in the diagnosis of fractures, icint disorders etc. of great value in the diagnosis of fractures, joint disorders etc Irradiation by the Rontgen rays is a method of treating cancerous growths, skin disorders, etc They have been investigated and used extensively in science notably in the examination of crystal structure

Xylene hame of one of three isometric benzine series. They are found in coal and wood tar, and can also be made artificially Commercial xylene, which contains all three forms, is used as a solvent, and in the making of aulline dyes.

Xylophone Percussion instrument, frequently used in orchestras It consists of a series of wooden staves in the form of a half cylinder, at intervals of a semitone It is played with small wooden hamners and has a range of two or three octaves.

ACHTING Racing or cruising in Before the 19th century yachts were few and most were owned by royalty, though the Royal Cork Yacht Club dates from 1720 and matches wore sailed at Cowes in 1780 The Royal Yacht Squadron, then the Yacht Club,

moral Yacht Squadron, then the Yacht Club, was established at Cowes in 1812 In 1851 the America won a cup given by the Royal Yacht Squadron, the cup passing to the New York Yacht Club and becoming "The America Cup," for which Sir Thomas Lipton five times challenged unsuccessfully with his five Sham rocks Yacht racing entered on a great craftom 1870 80, but then declined till 1892, when another great paried set in witnessing the another great period set in, witnessing the building, among others, of the King's famous cutter, Britannia, built for Edward VII, then Prince of Wales International rules were first introduced in 1906, and the ideal of a combina introduced in 1906, and the local of a combination of habitability and speed in yachts was introduced. The present international rules date from 1920. The principal regattas in the British Isles are held at Cowes, Ryde, Torquay, Plymouth, Lowestoft, Harwich, Belfast and elsewhere. Much yachting is done on the Norfolk Broads and rivers, and many regattas

Yak Ungulate bovine mammal (Bos grun regions Kept for its milk and fiesh, and used regions Rept for its limit and heaf, and uses a beast of burden, the yak also occurs in the wild state A heavy, bulky animal with short legs, it has long shaggy hair which hangs like a fringe from hips, shoulders and under parts, and forms a tutt to the tail The male

stands about 51 ft at the shoulders

Yakutsk Socialist republic of Soviet Asia It has an area of 1,457,668 sq m. and a pop of 308,400 (1931) It borders the Arctic Circle, with a coastline on the Arctic Ocean The republic is autonomous and was founded in 1922 The capital is Yakutak, with a pop of 10,513 Fur bearing animals abound in the forests, and furs are arrows the principal experts. Careals are arrows. among the principal exports Cereals are grown in the S and gold is mined in the hills.

Yale Ellhu Indian administrator He was born in or near Boston, Mass, April 5, 1648, of English parentage His family returned to England in 1652, and in 1672 Yale went to India in the service of the E India Company He returned to London in 1699, having made a fortune by private trading His name is chiefly remembered in connection with Yale University, established in 1701 in Newhaven, Conn, and named after him in recognition of his gifts He died July 8, 1721

Yalu River of Asia It rises in Manchuria and flows into the Yellow Sea It is

300 m long and partly navigable

Yam Genus of tropical climbing plants of the order Dioscoraceae Natives of the E Indies, rams are largely cultivated in the W Indies and China. The stems are long, thin and trailing, and the large tuberous roots form a valuable food.

Yangtse-kiang River of China. It rises in Tibet and industry, it is 6 m. N E of Bradford. Pop flows mainly E through China, falling into the (1931) 7671

sea just N of Shanghai The great river of central China, it is some 3,500 m in length and drains an area of 700,000 sq m. It is navigable by small steamers to Tchang and by large ones to Hankow, 700 m. up Anking, Nanking and Chinkiang are ports near its mouth

Yare River of Norfolk It rises near E Dereham, and flows for 60 m. in an easterly direction past Norwich to the North Sea at Yarmouth A few miles from its mouth it unites with the Waveney to form Breydon Water

Yarmouth County borough, watering place and market town of Norfolk, called in full Great Yarmouth It stands at the mouth of the River Yare, 19 m from Norwich and 122 from London, and has stations on the L N E Rly Gorleston, although in Suffolk is part of the borough The principal buildings are the large parish Church of S Nicholas, the modern town hall and the tollhouse—now a library museum—of the 14th century There are remains of the cloisters of a monastery and the town wells cloisters of a monastery and the town walls, while the Blackfriars tower and the fishermen's almshouses are very old The town has associa-tions with Nelson, to whom there is a memorial on the Denes Yarmouth was bombarded by German ships on Nov 3, 1914, April 25, 1916, and Jan 14, 1918 Pop (1931) 56 769"

Yarmouth Scaport of the Isle of of the Yar at the extreme W of the island It has a station on the S Rly, and from here steamers go regularly to Lymington There is an interesting castle The place is a yachting centre, and a regatta is held in August Pop 900

Yarmouth Seaport of Nova tremity of Nova Scotia, 218 m. from Halifax it is a favourite summer resort affording opportunities for deep-sea fishing Fur farming and lumbering are carried on in the vicinity Pop (1931) 7055

Yarrow Perennial plant (Achillea mille-folium) of the order Compositae The leaves are slender and segmented, presenting a delicate feathery appearance. The large flower head is made up of numerous smaller flower heads of pink or white blossoms with a yellow central disk. It is common in the British Isles in meadows and waste land from June onwards

Yarrow River of Scotland It rises in the county of Selkirk and at the town of Selkirk falls into Ettrick Water It is 14 m. long, and on its banks are Newark Castle and other border strongholds famed for its beautiful scenery

Yaws Tropical disease, occurring in the East and West Indies, Africa, America and South Pacific Islands It is accompanied by a very troublesome ulcoration It is highly contagious and is spread by flies. Arseno benzol compounds have proved useful, but segregation of patients for proper treat-ment and strict sanitary measures imposed by authority are necessary

Year Unit of time marked by the revolu-tion of the earth in its orbit round, the sun The solar year is 365 days, 5 hours, Hwang ho (q v)

48 minutes, 49 7 seconds The sidereal year, Vellow Sec. Branch of the Pacific As minutes, 49 's econias' The sidereal year, calculated somewhat differently is 19 minutes longer. For practical purposes the year may be taken at 365 days. It is therefore fixed at 365 days with an extra day overy fourth year, which is called a leap year. The leap years are those which are divisible by four without regulators. without remainder. To correct the disorepancy caused by the odd seconds every year that is divisible by 100, but not by 400 is a year of 765 not 366 days

vents are calculated from the birth of Jesus Christ which was termed Anno Domini (i.e., The year of Our Lord 1) and written a D 1 the years before that event being numbered backwards as n o (Before Christ) The Jewish Calendar dates from the supposed creation of Sept 21, 1932, is the first day of 5694. The Mohemmedan Year is one of 354 or 355 days only, consequently it loses some days each year. by comparison with the Gregorian dates Year 1 to the Mohammedan is a p 622 and year 1350 falls within the Christian year 1932 Until 1752 the legal year in England was from March 25 to March 25 The ecclesiastical year is from advent to advent

Yeast Minuto funci of the Saccharomyces form the enzyme known as zymaso, which promotes fermentation, decomposing the sugar introleohol and carbon dioxide Yeast is used in brewing, baking, and the manufacturing of vinegar See FFRMI NTATION

Yeats William Butler Irish author Born in Dublin, June 13, 1865, he studied art first, but at 21 abandoned it for no sounce are life, out at 21 abandoned 1 for liberature A prollife writer of plays as well as verse, he is best known by The Countess Kathleen, The Land of Heart's Desire and Deirdre The Winding Stair and other Poems appeared in 1937 Collected editions of his works were published in 1908 and 1926 In 1923 harms appeared a Nobel Price for Heart's appeared a Nobel Price for Heart's proposed a Nobel Price for Heart's proposed and 1926 In 1923 he was awarded a Nobel Prize for literature His interest in the formation of the Irish Theatre brought him into contact with Lady Gregory, and led to the foundation of the Abbey Theatre, Dublin, in 1904, of which he is a director In 1922 he was made a senator of the Irish Free State

Yellow Fever Discusor tr prevalent tropical semi-tropical countries The fever is due to a variety of mosquito, and the disease begins with severe shivering and pains accompanied by a high temperature. The skin becomes sellow as in jaundice, and there is often vomiting and other symptoms. An injection of serum often produces good results, but rest and careful nursing are essential to recovery

Yellow-hammer Bunting citrinella) It is common in Britain, and of N. Europe is 61 in long, the plumage yellow-brown above with streaks of durker brown The head and under parts are mainly yellow, with brown streaks, while the rump and wing coverts are edged with reddish-brown.

Yellowhead Pass of the Rocky Mountains between the provinces of Alberta and British Columbia

Yellow Sea Branch of the Pacific Occan It lies between China, Manchuria and Korea, and in it are think, Matchiria that Korea, and In it are the galfs of Chibli, Korea and Lieu-tung Its greatest width is about 400 m. The name is due to the vast quantity of yellow mud brought down by the Hwang ho (q v)

Yellowstone River of the United States It rises in the Rocky Mts in Wvoming, and flows through the The arrangements follow the Gregorian Calendar which was introduced in 1582, and has been adopted throughout the civilised world, although Russia only took it up in Yellowstone National Park This is in Wyoming 1917 and Greece in 1923 In this calendar the 1923 of the North of Legis in 1872 it is a mountainous area. There are in 1872 it is a mountainous area. There are several lakes in the park, but it is best known for its govern and hot springs. It is mainly forest but there are good roads through it, and it has several hotels

Yemen District of Arabia It is in the Coastline on the Red Sea Its area is 75,000 eq m, and it is governed by an imam Sana is the capital The country is very mountainous, but produces coffee, wheat, millet and barley Onts and hides are exported Pop 3,500,000

Yen Japanese silver coin The country's monetary unit, its value is nominally 2s id, and it is divided into 100 sen

Yenisei River of Asia It rises in the mountains of Mongolia, and flows across Siberia into the Arctic Ocean It is 3000 m long and enters the sea by an estuary Its course is almost due N Yeoman Word meaning a countryman.

Yeoman it refers both to tenant farmers and to farmers who own the land they till

The Yeomen of the Guard are a permanent military corps in attendance on the sovereign Instituted in 1485 as his personal bodyguard, their duties are now purely ceremonial Their picturesque dress dates from Tudor times Their headquarters are from Tudor times That the Tower of London See BEEFEATERS

Yeomanry Branch of the British Army. teers, and the force serves as a reserve for the cavalry First organised in 1794, each county has its own regiments, which are called out for a period of training each year The men provide their own horses and receive a small payment In 1914 there were 55 regiments of yeomanry, and most were sent to one or other of the theatres of war. A force of mounted men called the Imperial Yeomanry was raised for service during the war of 1899-1902 against the Boors

In 1908 the yeomanry regiments were included in the Territorial Force and in 1921 a number of them were converted into artillery units Fourteen regiments of yeomanry remain, the senior being the Royal Wiltshire

Yeovil Borough and market town of Somerset It is 23 m E of Taunton and 125 m from London, on the Southern and G W Rlys Situated on the Yeo, it manufactures gloves and has an agricultural Pop (1931) 19,078 trade

Yew (Taxus baccata) Evergreen tree of the order Coniferac. Varying from 15 to 50 ft in height, it is of spreading growth. The branches start from the short, massive bole, within a few feet from the base, and

extend almost horizontally The twigs are many and thickly leaved, the leaves long and curved, of a glossy dark green above and pale underneath. The wax like vivid red berries are cup shaped with a central seed The wood is hard and elastic, and is commercially valuable to day

Yezidis A religious sect found in certain parts of Mesopotamia, Persia, etc. They are commonly called "devil etc They are commonly called "devil worshippers," but their beliefs reveal affinities with Mohammedanism and (Nestorian) Christianity Though hated and despised by their neighbours, they are a peaceful,

cleanly and industrious people
Yiddish Dialect of Hebrew spoken by
hebrew great by
large German element and is extensively used

in the cast end of London

Yggdrasil A mystical ash tree which in Norse mythology typifies existence It binds together heaven, earth and hell by means of its three roots, which stretch respectively, one to the realm of the gods, one to the frost glants, and the third to the underworld of death

Ynishir District of Glamorganshire. It is from Pontypride and 170 m. from London, by the GW Rly

by the GW Rly
Yoga A Hindu word derived from the
Sanskrit meaning 'union' It is
the name of a system of Hindu philosophy which seeks to effect the emancipation of the devotee a soul through union with the universal spirit by means of meditation and the mortification of the body. Its disciples are known as Yogis.

Yokohama Seaport and city of Japan It stands on Tokyo Bay, on the island of Honshu 15 m by rail from Tokyo It possesses a large harbour equipped in the most modern fashion, and from it a great deal of silk, coal, etc., are exported Yokohama has been a treaty port since 1859 On Sept 1, 1923, great damage was done by an earth quake, but this has been repaired In 1927 the city boundaries were extended. Pop (1930) 620,306

Yonge Charlotte Mary English author She was born at Otterbourne near Winchester, Aug 11, 1823 The Hear of Red cluffe (1853) brought her not only fame but ctypic (1853) brought her not only fame but enough money to provide the schooner Southern Cross for Bishop Selwyn's Melanestan mission The Dawy Chain (1850) yielded enough to build a missionary college in Auckland, NZ She published 120 books, and for 47 years edited the Monthly Packet She died March 24, 1901

Yonkers City of New York State
It is on the Hudson to the
N of the city of New York, of which it is
practically a suburb. It has a number of practically a suburb industries

industries Pop (1930) 134,646
York City and market town of Yorkshire,
also the county town It is on the Ouse 188 m from London, and is reached by the L MS and L N.E. Rlys. One of the oldest cities in England, York is full of buildings of interest, the finest being the cathedral or minster of St Peter, one of the finest Gothic churches in England. It is famous for its stained glass, its vast front, its three noble towers, its chapter house, and its bells Associated with it are the treasurer s house, the library, and St. William's College Other old buildings are the guild hall and no fewer than 21 churches, among them Holy Trinity in

Goodramgate, St. Michael le Belfry, St. Helen's, St Margaret's, St Michael's, St. Mary's Senior and All Saints The Merchant's Hall and the King s Manor may also be mentioned. Clifford's

Tower is a relic of the castle

The city, first known as Eboracum, was at one time the greatest Roman settlement in Britain, and has considerable Roman remains. Of the medieval city, the walls and gutoways still stand, and there are runs of an abbey and hospital. The mansion dates from the and hospital. The mansion dates non-18th century The schools include St Peter's, one of the oldest in England, and Bootham, maintained by the Society of Friends. Modern maintained by the sourcey of Phonos. Mostrial buildings are the Art Gallery, Assize Court and two museums Skildergate and other bridges cross the river York is a great railway junction and an important military centre. The industries include railway works cocca factories, printing works, flour mills, etc. It sends one member to Parliament At Earswick, a

Suburb, a model village has been built.

York was made the seat of a bishop in 627, it has had an archbishop since 732, his province covering the north and north midlands of England His palace is at Bishopsthorpe The

England His palace is at Bishopsthorpe The city is governed by a lord mayor, a dignity given to York in 1889 Pop (1931) 84,820 York House of Branch of the British Royal Family It traces its crigin back to Edward III, through his third son Lionel, Duke of Clarence and his fifth son, Edmund, Duke of York. Richard Plantagenet (killed, 1460), the father of Edward IV and Richard III, was the head of the house, and he claimed the crown in opposition to and he claimed the crown in opposition to Henry VI., who assented to an Act by which Richard's two sons secured the succession. Latterly the title, Duke of York, has generally been held by the second son of the relgning monarch

York Duke of Richard Duke of York, son of Richard, Earl of Cambridge and Anne Mortimer, being thus descended on both sides from Edward III He was Protector of England during the mortility of the control of the contro land during the mental incapacity of Henry VI, and it was his claim to the succession, involving the setting aside of Henry VI's son, Edward, that started the Wars of the Roses. He was killed at the Battle of Wakefield, Dec. 30, 1460 His claim descended to field, Dec. 30, 1460 His claim descended this eldest son, who became king as Edward IV in 1461

York Duke of. Frederick Augustus, second in London, Aug 16, 1763 and on Feb 27, 1764, was elected to the bishopric of Osnabruck, in order to draw its huge revenues. In 1784 he was created Duke of York. In 1793 and 1790 he commanded English contingents and 1799 he commanded English contingents against the French, but failed ignominiously He did good work, however, in carrying out reforms in the army at home He died Jan 5, 1827, and is commemorated by a column, with his statue on the top, at the end of Waterloo Place, London.

Place, London.

York Duke of. HR.H Prince Albert
Frederick Arthur George, Duke of
York, Earl of Inverness and Baron Killarney,
K.G., K.T., P.C., the second son of H.M.
King George V., was born at York Cottage,
Sandringham, Dec. 14, 1895 He is RearAdmiral of the Fleet in the Royal Navy
(June 3, 1932), Air Vice Marshal in the
Royal Air Force (June 3, 1932), and Colonelin-Chief of several regiments. On April 26,
1923, he married Lady Elizabeth Bowes
Lyon, daughter of the Earl of Strathmore,

and has two daughters, Elizabeth and Margaret Rose. He takes a keen interest in all social matters affecting the voltage of the people

Yorkshire County of England, the largest in the land In the N of the country, it covers 6077 sq m between the Humber, Durham and Lancz shire It is divided into three ridings N, E and W York is the county town, but each riding has its own capital, these being respectively Northallerton, Boverley and Walsheld Wakefield

Yorkshire contains some peaks of the Pennines and the Cleveland Hills. The chief rivers are the Ouse and its tributaries Wharfe, Aire, Nidd, Swale, Ure, Don and Derwent In the N are the Tees and the Esk The county In the N are the Tees and the Esk. The county has many large cities and towns, Shellicid, Leeds, Bradford York, Walefield, Hull, Doneaster, Huddersfield, Hallfax, Barnsley, Keighlev and Middlesbrough among them, and many smaller ones with much historic interest such as Pontefruct, Richmond, Ripon, Boverley and Selby. The watering places include Scarborough Whitby, Bridling ton and Redear. Harrogate is an inland spayors the way famous for its Cisterrian Abboys. Yorkshire was famous for its Cistercian Abboys, Pountains and Kirkstall are outstanding ex-

The county contains a great industrial area which centres around Sheffield, Leeds and Bradford, and is known for its coal mines and woollen mills Around Doncaster a new coalfield has been developed in the 20th century There are also industrial areas around Hull and Middlesbrough but elsewhere in the L and N Riddings agriculture remains the dominant industry. The county is in the arch-diocese of York it also contains the dioceses of Ripon, Wakefield, Sheffield and Bradford. It sends 26 members to Parlia ment, apart from those sent by the cities and boroughs. Pop (1971) 3 208,828

Yorkshire is famous for its cricketers and its horses The county cricket club has for cars been one of the strongest in the country, and the county has horse-breeding establishments and meaning the most neighbor.

ments and race meetings, the most notable race being the St Leger at Doncaster

A number of regiments are recruited in Yorkshire The E Yorkshire, the old 15th Foot, has its depot at Beverley The W A number of regiments are rectangled.

Yorkshire The E Yorkshire, the old 15th Foot, has its depot at Boverley. The W Yorkshire, the old 14th Foot, has its depot at York. Both were raised in 1685. The Yorkshire Regiment, officially called the Coop Howards, dates from 1688. It was the 20th of the line, and the depot is at Richmond The Yorkshire Light Infantry and the York and Lancaster Regiment both have their depots at Pontefract The former, known as the King's Own, is the 51st and 105th of the line. The latter is the old 65th and 84th Foot.

Yorkshire Terrier Small toy from the Scottish terrior It has long straight, silky hair, steel blue on the back, tan on the under parts, the legs and head being a light fawn The nose is black

Yorktown American township It is in Virginia USA Here Lord Cornwallis was forced by famine to surrender to Washington

Yosemite National park in the United States It is in the middle Mork House Royal residence in LonSt James & Pala e It was the London House of Edward VIII when Prince of Wales, and is a now that of the Duke and Duches of York

County of England, the Indian House of Work and Indian County of Large of Lordon House of York Indian County of Lordon House of York Indian The Yesemite Falls, descends 2500 ft. in three of the Work of

Youghal Scaport and market town of Co Cork, Irish Free State, It stands on the estuary of the Blackwater, 27 m from Cork, and is reached by the GS Rive There is a fine old church, and here is Watte Grove a house once occupied by Sir Walter Raleigh Youghal has a good harbour, a trade in agricultural produce and some fishing Pop (1926) 5339

Young Brigham. American Mormon leader Born at Whittingham June 1, 1801, he joined the Mormon sect in 1832 and became its prophet and president in 1811 He organised the settlement of the Mormons in Utah in 1847, and was the founder of Salt Lake City He died in Salt Lake City He died in Salt Lake City when survived by 17 wives of Salt Lake City He died in Salt Lake City on Aug 29, 1877, being survived by 17 wives and about 50 children

Young Francis Brett. British novelist. Born in 1884 the son of a doctor, he was educated at Epsom College and the he was educated at Epsom College and the University of Birmingham, where he took a medical degree During the Great War he served with the RAMC He has written novels, some plays and soveral volumes of poems His novels include The Crescent Moon, Woodsmoke, Cold Harbour, My Brother Jonathan, and Jam Rediale In 1932 he published House Under the Waler, in 1934 This Little World, and in 1935 White Ladies

Young Owen D American financier Born Oct. 27, 1874, in New York State, for a time he practised law in Boston, and in 1912 became connected with the General Electric Co. In 1924 he was a member of the committee that inquired into the ability of Germany to pay reparations, and for a short time he was Agent-General for Reparations. In 1929 he was a member of a similar committee, and on this occasion he put forward the scheme which was adopted, and is known as the Young Plan. See REPARATIONS

Young Men's Christian Association. Young Men's The Young Men's Christian Association (National Headquarters: Gt Russoll St, WC 1) was founded in 1844 by (Sir) George Williams to unite young men in an endeavour to improve themselves. in an endcavour to improve them physically, mentally and intellectually value of its good work was generally recognised during the war In the United Kingdom there are (1932) 814 branches with a membership of

118,430, while the U.S.A have 1435 centres with a membership of 1,011,144

The Young Women's Christian Association (London Head Offices 16 22 Great Russell St., W.C. 1.) was formed in 1855 with similar objects to those of the men's association It has a British membership of 35,000 with 350 centres.

centres

Younghusband Sir Francis. British soldier and explorer Born in India, 31st May, 1863, he entered the army, becoming Lt Colonel in 1908 He has explored the mountains between Kashmir and China and accompanied the British mission to Tibet in 1902 Among nis many books of the countries he has explored are Heart of a Continent (1898), India and Tibet (1912), and The Epic of Everest (1927) He was made KCIL in 1904 and KCSI in 1917

Youngstown City of Ohio, USA It is 64 m from Cleve land and is an industrial centre Pop 170,002

Yo Yo Popular game for one person Introduced from the United States, it became popular in Great Britain in 1932 It consists of a rounded piece of wood, divided into two parts and attached to a string The game involves delicate control of the wood, rolling and unrolling it on the string

Ypres Earl of English soldier John Denton Pinkstone French was born at Ripple Kent, Sept 28, 1852 After four years in the navy he joined the army in 1874 As major general he commanded a cavalry division in the Boer War He became Chief of Imperial Staff in 1912, and Field-Marshal in 1813 From 1814 till December 1915 he com 1913 From 1914 till December, 1915, he commanded the British Army on the western front and was created Viscount on resigning From 1918 21 he was Lord Lieutenant of Ireland, and received an earldom on resigning He died May 22, 1925

Ypres Town of Belgium Lying on the small River Yperlee, it was origin ally a rival to Bruges and Ghent, and its silk and lace goods were everywhere celebrated It suffered severely in the Great War, and at the end of the war nothing remained of the town Since 1918 from temporary hostels around the Menin Gate the town has been completely robuilt. The famous old Cloth Hall and churches have been restored. old Cloth Hall and churches have been restored, and a garden city has replaced the ancient

working quarters.

There were three Battles of Ypres during the Great War The first took place in Oct. and Nov, 1914, and represented the defence of the Channel ports against the Germans under Falkenhayn Although the Gormans failed to break through, some 55,000 Britishers lost their lives The Ypres battle of April May, 1915, was notable for the first use of poison 1915, was notable for the first use of poison gas by the Germans, but once recovered from the initial shock, the Allied troops gave little ground. The third battle of June, 1917, formed part of the Allied offensive in Flanders Although mud seriously impeded the tanks, the Allies succeeded in capturing the whole range of heights between Armentières and Passchendaele, without, however, dislodging the Germans from the coast

Ysaye Eugène Belgian violinist Born at Liège, July 15, 1868, he studied under his father and Massart, and later under the father and Massart, and later under the state of the winder his lather and Massart, and later under Wienlawski and Vieuxtemps Between 1879 and 1889 he appeared in Germany, Parls and London, and in 1880 98 was violin professor at the Brussels Conservatoire He conducted Beethoyen s Fidelio at Covent Garden in 1907, and plaved sonata concerts with Raoul Pugno His most famous piece was the sonata dedicated to him by Lelley. He wort to America during to him by Lekeu He went to America during the war, and conducted the Cincinnati Orchestra Returning in 1922, he wrote the opera Peter the Coalminer He died May 12,

YSCI River of Belgium. It rises in N
Sea at Nieuport The Battle of the Ysci
occurred in October, 1914 For a while the
Germans repelled at Dixmude appeared
unlikely to get through the Belgian ine, but
the Belgians were finally forced to open the
Nieuport Sluices The Germans could not
advance through the flooded territory, and the
coast was sayed. coast was saved.

Ystradgynlais Village of Breck-centre, it is 13 m from Swansea, 210 m from London by the G W Rly,

Yucatan District of Mexico It is a peninsula, 400 m long, in the S E of the country, covering some 55,000 sq m On it are extensive remains of the civilisation of the Mayas

Vugoslavia Kingdom of Europe, bedom of the Serbs Croats and Slovenes Its nucleus is the kingdom of Serbia, to which other areas were added after the Great War, although its boundaries were not officially settled until 1924 It thus includes Monten egro, as well as Bosnia, Herzegovina and other districts formerly under Austrian rule. The area is 94,220 sq m, and it has a coastline on the Adriatic Sea. Belgrade is the capital, Zagreb or Agram is the next largest place. The ports include Sisak, Split and Kotor, and the country has by treaty a free zone at Salonika Belgrade is a great river port Much of the land is mountainous. It is well watered by the Danube and its tributaries. The population (1931) is 13,930,918

Yugoslavia is an agricultural country Wheat, maize and hemp are the chief crops and many cattle and sheep are recred. Much

and many cattle and sheep are reared Much land is covered with forests Coal, iron ore and lead are mined

The kingdom is governed by a king and a The kingdom is governed by a king and a ministry responsible to a legislature of two houses, a senate and a chamber of deputies of 305 members elected by all adults. The people belong chiefly to the Serblan Orthodox and Roman Catholic churches. There is an army recruited by compulsory service, and a small navy. The country has a national bank, and the dinar is the unit of currency.

The first king of the new kingdom was Peter of Serbia, who was succeeded in 1921 by his son, Alexander I In Jan, 1929, Alexander suspended the constitution and ruled for two years as a dictator In 1931 there was a return to constitutional government, but only in a modified form In Oct, 1934, King Alexander, on his way to an important conference in Paris, was assassinated at Marsellles He was succeeded by his young son Peter II (b 1923), with Prince Paul as First Regent

Yukon Territory and River of Canada. The territory is the most NW one of Canada 1t has an area of 207,000 sq m one of Canada It has an area of 207,000 sq m In 1901, owing to the discovery of gold at Klondike, the population was 27 000 in 1931 it had declined to 4100 The capital is Dawson, with 975 people as compared with 2500 during the gold rush There is an abundance of big game, and there are huge forests The river, some 2000 m long, is navigable for 3 months in the year for large steamers from its mouth in the Bering Sea.

ADKIEL Name taken by made several successful lecture tours in Richard James America and was interested in the Zionist Morrison Born on June 1', movement He died Aug 1 1826 1795, he was a sailor, but is better Zante One of the Ionian Islands It known as an astrologer He founded in 1831 The Herald currents and olives The chief town is called known as an astrologer He founded in 1831 The Herald of Astrology, still issued every year as Zadi-iel's Almanac He died April 5, 1874

Zaghlul Snad Egyptian nationalist, generally known as Zaghlul Pasha Born in 1852, he was arrested for his share in the rebellion of Arabi Pasha Later he was called to the Bar and took office as Minister of Lducation, then of Justice His retirembly to the large causal his deportation in

as Minister of Education, then of Justice Instantionalist activities caused his deportation in 1921, but later he returned, and was Prime Minister in 1924 He died Aug 23, 1927

Zagreb (or Agram) Capital of Croatia, Jugoslavia, on the Sava river situated among mountains but amid fertile level. The claim part has party winding land The older part has narrow winding streets and contains a 15th century Gothic cathedral A newer area of vide streets public parls, etc. is the business and industrial centre, possessing also many churches, schools and a university Many manufacturing industries are carried on Pop (1931) 185,581.

Zaharoff Sir Basil GCB (1919).
Oxford Grand Cross of Legion of Honour Financier and politician Born at Mughla, near Constantinople, Oct 6, 1849, of Russian and Greek parentage, he dealt in cloth and armaments, and became a millionaire He gave enormous sums of money to Greece Allera to the control of the c enormous sums of money to Greece during the Great War, and to various relief funds He was consulted by Allied statesmen at the Paris Conference and be has founded chairs of aviation and of literature in England, Russia and France

Zama Numidian town, situated about 75 m SW of Carthage The decisive battle, in which Scipio Africanus Major de feated Hannibal in 202 nc and ended the Second Punic War, leaving 20,000 Carthaginians dead on the field and taking another 20,000 prisoner, takes its name from this place, though it was actually fought on the River Bagradas, come miles to the west. some miles to the west.

Zambesi River of Africa River of Africa It rises in Angola and flows across the continent, mainly costward, until it falls into

continent, mainly castward, until it falls into the Indian Ocean by a great delta around Chinde in Mozambique Much of its course is in Rhodesia and on it are the Victoria Falls It is 1600 m long, its chief tributary is the Shiré and it is navigable for 400 m Nicoto Alcala President of the Spanish Republic A lavver by profession, he was originally a monarchist in politics In April, 1930, he drew up a scheme for a Conservative Republic, and on the overthrow of the monarchy in 1931 became first president. president.

Zangwill Israel Jewish writer He Zangwill was born in Loudon of poor parents, Feb 14, 1864, and studied at London University He became famous through the Children of the Ghetto, written at the request of the Jewish Publication Society of America for Zangwill kerel Jowish writer He parents, Feb 14, 1864, and studied at London University He became famous through the Children of the Chello, written at the request of the Jowish Publication Society of America for a story depicting Jewish life among the poorer classes. He wrote novels, plays and pamphlets,

Zante Pop 40,500

Zanzibar Island and scaport of East Africa A British protectorate it lies off the coast of Tanganyika, 25 m from Dar es Salaam It is 53 m long and covers 610 sq m The town is on the west coast of the island or the same of of the island and has a very fine harbour. The chief product is cloves, which are sent all over the world. Copra and sugar are also exported. The protectorate includes the adjoining island of Pemba

In the 19th century Zanzibar was an Arab state under a sultan, whose lands included a large area on the mainland. In 1890 it was declared a British protectorate, but the sultan retained his position on the island Great Britain is represented by a resident and there are two councils executive and legislative

Pop (1931) 137 741

Zealand Island of Denmark It lies between the Great Belt and the Sound and covers 2680 sq m On it are Copenhagen and Elsinore Sec DENMARK

Zebra Striped animal of the horse family (Landae) of the Perissodarilla The zobra is a native of Africa and resembles the ass in the shape of its cars, its tufted tall and erect mane. The tawny coat is striped with black on the head, limbs and body, the under parts being greyish See QUAGGA

Zebu Domesticated animal of the extamily it is found in India and other parts of Asia and is used as a draught animal About the size of a bull, the animals are horned and have a hump on the back. In colour they are white or grey

Zebulon Israelitish tribe, named after the sixth son of Jacob and Leah The tribal territory lay north-east of the Plain of Jerreel and was very fortile Many warriors were of this tribe, specially mentioned in the "Song of Deborah" for its prowess in war

"Song of Deborah" for its prowess in war Zechariah Hebrew minor prophet. A shared with him the task of inducing the people to undertake the rebuilding of the Temple The first part of the book which bears his name fits exactly into this historical setting and may be dated 520-518 B o The last six chapters were probably written by another hand at a post exille date

Zedekiah Last King of Judah (597-of King Josiah, he was placed on the throne by Nebuchadnezzar, as his tributary In 588 he joined in a revolt against Babylon. After a siege of a year and a half, Jerusalem was taken by Nebuchadnezzar, and Zedekiah was carried captive to Babylon

Zeebrugge Town and seaport of Belgium It is on the coast, as m from Bruges, at the mouth of the canal that links that city with the sea Zeebrugge is the terminus of a ferry service with Harwich and has some shipping There is a harbour protected by an improper molecular than the season of the sea protected by an immense mole

In Oct 1914, the Germans took Zeebrugge and made it a submarine base On April 23, 1918, a British force under Capt. A B Car penter in H M S Vinductive attacked the port, blocked up the entrance to the harbour and damaged the defences.

Zeehan Town of Tasmania. It is 25 m from the coast at Macquarie Harbour and is a railway junction The chief industry is the smelting of the silver and lead that are mined in the vicinity Pop 3000

Zeeland Province of the Netherlands. It is in the S W of the country and includes Walcheren and other islands. It covers 708 sq m and Middelburg is the

capital

Zeeman Pleter Dutch physicist Born May 18, 1865, he became Pro fessor of Physics at Amsterdam in 1908 The Zeeman effect, discovered by him, which assisted in the development of the modern conception of atomic structure, refers to the fact that in a strong magnetic field each line in the spectrum of an element is split up into components

Women's apartments in a Hindu Zenana household, equivalent to the Mohammedan harem

Zend Avesta Parsee religious books are dore, containing astronomy and medicine as well as moral precepts and prayers addressed to spirits good and bad. Traditionally ascribed to Zoronster, the original copy is supposed to have been destroyed when Persia was invaded by Alexander, or at the time of the Arabian conquest

Zeno Founder of the Stole philosophy Born at Citium, in Cyprus, probably early in the 4th century B C, he went to Athens, where he eventually started his own school in the ston polkite or painted porch, whence the name Stoic His philosophy of temperance and moderation earned him the respect of all Athenians The date of his death is unknown

Zenobia Queen of Palmyra. She married shared the Roman Empire with Gallienus, and on the death of her husband she made it her ambition to clerate Palmyra to pre-eminence in the Eastern Roman Empire She took the name Augusta and claimed to be Queen of the East Her subjugation of Egypt caused the Emperor Aurelian to lead an expedition against her in A D 271 She was captured and allowed to retire to Tibur, where she died

Zephaniah Hebrew minor prophet. He appears to have propheted in the reign of Josiah, King of Judah (639-608 BC), before the great reformation of 621 BC (2 Kings xxiii, 4) The burden of his beet in the control of the book is the near approach of a day of judgment

Zeppelin Type of airship invented by German He was born at Constance, July 8, 1838 and became a soldier He fought in the American Civil War and for his own country

plans many others were built for the German government, and during the Great War they were employed for raiding purposes Owing to their size and for other reasons they were not a conspicuous success, and a number were destroyed by the Allied airmen. The Count dled March 8, 1917 After the Great War, a monster zeppelin called the Graf Zeppelin, was built In 1929 30 it voyaged round the world, and in 1931 and 1932 it visited England. See AIRSHIP

Zermatt Pleasure resort of Switzerland. Zermatt It is 22 m by railway from Viege and stands over 5000 ft high From it the Matterhorn and the Monte Rosa can be

Zerzura Oasis in the Libyan desert. it was discovered by an expedition in April. 1932 It is some 300 m to the west of Wadi Halfa on the Nile

Zetland Marquess of English traveller Born June 11, 1876, Lawrence John Lumley Dundas succeeded his father as second marquess in 1929 Educated at Harrow and Cambridge he has travelled extensively in the far east. He was Governor of Bengal, 1916 22 He has been president of the Royal Geographical Society and the Royal Asiatic Society and is chairman of the National Trust.

As a writer Lord Zetland is better known under his previous title of Earl of Ronaldshay. He has written many books on the far east. the best known being India-a Bird's Euc View He has also written the authorised Life of Lord Curson and in 1932 a Life of Lord Cromer

Zeus The principal god in the Greek pantheon The chief seat of his worship was Mt Olympus in Thessaly appears in two guises as a very human, appears in two gaises as a very numan, amorous being, constantly suffering criticism from his wife, Hera and as the all powerful "Father of gods and mon"

Ziggurat Building in Babylonic and Assyria It is a temple built in a series of stages The rulms of a famous one-baye bean arguited at III.

have been excavated at Ur

Zimbabwe Ruins in Rhodesia. They are 17 m from Victoria and are evidently part of a fortress They were discovered in 1868 and examined some years later when carvings and vessels were found. They are the relics of a race possibly Bantu with a high degree of culture and were in some way connected with the gold mines.

Zinc (or Spelter) Chemical element with the symbol Zn, atomic number 30, and atomic weight 65 38 A bluish white metal with a melting point of 786° F, it is found chiefly as the carbonate calamine (q r) and the sulphide, zinchiende It is used for the plates of electric batteries and for roofing, galvanising, etc. Applied as a protective coat to ipposite Applied as a protective coat to iron it ents rusting. Alloyed with copper it prevents rusting Alloyed with copper it forms brass, and there are other commercial alloys. The chloride is used as a flux for solder-Salts of zinc are used extensively in medicine and as reagents

Zinnia Genus of the order Compositae of the Southern US, from which popular garden forms have been developed with flowers of white, yellow red, purple and many intermediate colours. They are easily grown in summer in good well-drained soll

in 1866 and 1870-71, after which he retired After many years of research and effort, he real name being Grigory Evseyevich, and

became a fournalist. For some years he was. Minister of the Interior (1920), then Minister connected with revolutionary newspapers. In far War (1921), and later Prime Minister (Dec., 1915 he helped to found the Third Inter-1922). He was elected President of the national, of which he became president four Albanian Republic, Feb. 1, 1925, and provens later. A letter to British Communists claimed king Sept. 1, 1928. became a journalist. For some years he was connected with revolutionary newspapers. In 1915 he helped to found the Third International, of which he became president four years later. A letter to British Communists purporting to be from him was published in the British press in 1924 and had far-reaching. effect. He was expelled from his party in 1927, but readmitted the following year

Zion Mount. One of the hills on which Jerusalem was situated. Actually Zion is the southern portion of the eastern hill on which the temple was built. The name, which is frequently personlited, is variously applied, being used for the whole bill, for Jerusalem itself, and for the Jewish people

Zionism Iewish nationalist movement are established "to create for the Jewish people a home in Palestine secured by public law," but not till 1921 was the definite step taken of setting up in Palestine a national home for the Jews There are two branches to the Zionist organisation. One is converned with the administration of the national fund for the purchase of land in Palestine—the other stresses the importance of the national home as a centro of Jewish culture

Zitconium Chemical element symbol Zitconium Zr, atomic number 40, atomic weight 91. One of the rare earth elements, it is found in rircon and is used in the manufacture of tool steels

Zither Musical instrument, the cithara of the Greeks It consists of a challow sound chest, shaped like a bottle. A number of strings often as many as 12 are stretched over the frame, but four or five inclody strings, which are of metal and are plucked by the player, form the main part of the instrument. The zither is still played in contain parts of Systzopland and Georgem Musicul instrument, the cithara of certain parts of Switzerland and Germany

Town of Czechoslovakia Zlin Town of Czechoslovakia it is in Moravia, about 50 m to the east of Brno It was an agricultural centre when, about 1694, Tomas Bata erected a factory for monufacturing boots. Others were built as his business grew until the place became an industrial town of some size with schools, haspitals and other public buildings. Pop. (1930) 21,584

Zodiac Belt of the heavens following the path of the sun It extends 8° each side of the cellptic, and was anciently divided into twelve parts, each with an appropriate sign and the name of the constellation which then occupied that division of the belt On account of the precession (qv) of the equinoxes the constellations no longer inhabit the divisions bearing their names, and the division of Aries, the first, is now occupied by the constellation of Pisces, the last of the twelve The twelve signs of the zodiac are Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra Scorpio, Sagittarius, Capricornus, Aquarius and Pisces See LCLIPTIC, SUN

Zoetrope Mechanical toy It consists of a rotating drum open at the top In it are placed, around its inner periphers, strips of paper with figures of men, periphery, strips of paper with figures of men, ttc., thereon By turning the cylinder the images are seen through slots in the upper side, and apparently they are in motion

Zogu Achmet King of the Albanians He They retained their picturesque Moorish dress Constantinople After serving in the Austrian army during the Great War, he became and is an opening of the North Sea, with which

Zola Emile French author. He was born in Paris, April 2, 1840 Leaving school carly, he engaged in journalism with but indifferent success. He showed greater aptitude for story telling, his Contes a Amon (1864) being a collection of charming tales. L'Assombeing a collection of charming tales. L'Assommunt, dealing with drunkenness, created a sensation. Among other works are. Une Paye d'Amour. La Jose de Viere, L'Ocure. Most of Zola a tales are distinctly unconventional, an exception being an idylle story. Le Rêre. In 1898 he successfully espoused the cause of Captain Droylus. In his letter to L'Aurore, beginning J' accuse. He died Sept. 29, 1902.

Zollverein German customs union. It treen 1819 and 1834 under the leadership of Prussia and was one of the most powerful of the forces making for a united Germany It includes all the states of the German republic and its object is to secure a uniform rate of customs duties throughout them.

Zoological Gardens Enclosure in which wild nnimals live in order that they may be seen In England the chief garden is in Regent's Park, maintained by the Zoological Society, which has also a park at Whipsnade, where the animals live in the open air Many large cities have zoological gardens, among these being Paris, Berlin Washington and Edinburgh A notable garden is the one near Hamburg founded by Carl Hagenbeck

Zoology Study of living animals Its chief branches are morphology, dealing with form and structure anatomy which investigates the position and relation of organs and parts, embryology, dealing with development from the overy to maturity, and physiology which treats of the organs of nutrition, reproduction and the nervous setem

Another department of zoology deal with the classification of animals The classification now accepted is that of Gegenbaur who makes nine sub-kingdoms They are protozoa, coelenterata vermes, echinodermata, arthropoda, brachiopoda, mollusca, tunicata and vertebrata

Zoroaster Religious teacher, known as Zarathustra Riso Hθ lived about 800 BC and founded a religion which was the faith of the Persians from the sixth century BC to the seventh century AD His followers are now represented in India by the Parsees He taught a lofty monotheism in marked contrast to the idolatry of his age, as well as an ethical doctrine of kindness and charity To other fatths he displayed a large-hearted tolerance. The worship of fire, as the symbol of good, plays a prominent part in Zoroastrian ritual, while charred wood and darkness are taken to represent evil

Zouave Soldier in the French army The name is that of a tribe in Algeria from whom a regiment for service with the French was recruited in 1831 The Zouaves were officered by Frenchmen, but after a time Frenchmen also formed the rank and file, the recruiting of Arabs having stopped They retained their picturesque Moorish dress

it is connected by several channels between the Texel and other islands It is a fishing ground, and a canal connects it with the North Sea at Ymuden It was formed in the 13th and 14th centuries, when the sea flooded over the land It contains a number of islands and its waters are very shallow

A good deal of land has been reclaimed from the Zuider Zee since the 17th century In 1920 work was begun on a further project of reclamation This involved the building of a dam or dyke, nearly 20 m long, across the entrance from North Holland to Friesland, utilising the Island of Wieringen In May, 1932, the dam was completed and some 800 sq m were reclaimed.

Zululand Country of South Africa. It has a constiline on the Indian Ocean and its area is 10,425 sq m The land is chiefly inhabited by Zulus, a tribe who possessed chiefly inhabited by Zulus, a tribe who possessed a powerful kingdom in the 19th century Between them and the Boers there was per petual dissension, and in 1879 there were also serious difficulties with Britain, the result being the Zulu War in which the British met with disaster at Isandhlwana and Rorke's Drift. At Ulundi, however, on July 4, 1879, the Zulus were defeated and their king, Cetewayo, was made prisoner Zululand was then annexed and in 1897 was made part of Natal.

Zurich Lake of Switzerland It is 25 m long and covers 34 sq m The waters are carried by the River Limmat to the Aar

Zurich City of Switzerland It is situated at the northern end of the Lake of Zürich, 41 m from Lucerne There are a of Zürich, 41 m from Lucerne There are a number of old churches and some fine modern ones of the former may be mentioned the cathedral, associated with Zwingli, the Wasser individual develops.

Kirche and the Frau Münster The town hall dates from the 17th century Zürich is a great educational centre It has a university, a valuable library and a polytechnic school, and here is the Swiss National Museum and a building called the Ruhen, in which is a collection associated with Pestalozzi Two fine bridges cross the Limmat A great manufacturing centre, Zürlch produces silk and cotton fabrics, machinery, etc Pop (1930) 249.820

Zutphen Town of Holland. At the confluence of the Rivers Yssel and Berkel, 18 m N N E of Arnhem, it has withstood many sleges, especially during the struggle of the Netherlands against Spanish domination in the sixteenth century After the Battle of Zutphen, in 1586, it was captured by the Spaniards, but recovered by Maurice of Orange in 1591 It trades in grain and timber and has tanning, weaving, oil and paper industries. tanning, we Pop 19,586

Zwingli Ulrich Swiss reformer Born at Berne and Basel and became a priest. In 1516 he settled at Einstedeln and in 1518 at Zurich, where he denounced the sale of indulgences and other abuses of the Church of Rome He married and in other ways broke away from the old faith Under his direction the citizens accepted the reformed teaching and Zürich became a Protestant centre. In 1531 the canton of Zürich became involved in a war with other cantons and in a battle at Kappel, Zwingli, who was with the troops as a chaplain. was killed Oct 11, 1531

## FAMOUS CHARACTERS IN PROSE, POETRY AND TRADITION

A supplementary glossary of the characters, famous in literature, tradition and myth, to whom frequent reference is made in the literature and press of the day. Characters who also appear in history or who require full encyclopædic treatment will be found in their proper place in the body of the work.

Absolute Sir Anthony. From The Rivals (Sheridan) A hot-tempered, wrongly gave him the reputation of being a overbearing, yet generous old English gentle-man, father of the hero, Captain Absolute Ralfour David Young Scots hero of Kid-

Acres Bob From The Rivals (Sheridan)
Acres A swashbuckling coward, rival of
Captain Absolute for the hand of Lydia Languish (q r ) A braggart whose bravery "oozed
out of his fingers' ends" when put to the test.

Adams Parson Simple country curate from Fieldings Joseph Andrews His ignorance of the ways of the world and his absenting deduces put him in many embarrassing situations

Admirable Crichton From The Admirable Crichton (Barrie) The perfect butler who, when his lord's anching party is wrocked, masters the situation and successfully woos the Ludy Mary, only to revert to his humble position after the rescue of the party

Aguecheek Sir Andrew Lank and Simple knight, the constant companion of Sir Toby Bolch (q v) and butt of many of his jokes From Twelfth Night (Shakospoaro)

Alan-a-Dale Appears in Scott's The minstrel among the outlaws of Robin Hood

Alice From Alice in Wonderland and Through the Looking Glass (Lewis Carroll) A little girl who, by falling down a rabbit-hole, reaches a strange land of non-tension reaches a strange land of non-tension reaches a strange land of non-tension and controls. sonsical people and animals

Ancient Mariner Hero of S T Coloridge's poem, The Rime of the Ancient Mariner, who brings a curse on himself and his shipmates by shooting the Albatross

Aramis See Musketkers, The Three

Ariel From The Tempest (Shakespeare) A line a pine tree, was liberated by the Duke Prospere, whose servant he became in gratitude

Artful Dodger Nickname given to Dawkins in Oliver Twist (Dickens) He was the apt pupil of Fagin the Jew (q.v.) to whom he introduced the young Oliver

Ashton Lucy From The Bride of Lammermoor (Scott) Although betrothed to Edgar, Master of Ravenswood, she is tricked into a marriage with the Laird of Bucklaw, whom she subsequently murders.

Athos See Musketeers. The Three

Backbite

Balfour David Young Scots hero of Kid-napped (Robert Louis Stoyenson). He makes a famous journey across Scotland during the Jacobite risings. He also appears in Cairiona by the same author

Barkis Bashful suitor of David Copper-field's nurse Peggotty He pro-posed marriage in the famous phrase, "Barkis is willin'"

Heroine of Much Ado About Nothing (Shakespeare) She Beatrice marries Benedick (q v )

Another Beatrice was the beautiful Florentine, beloved of the poet Dante, and inspiration of his Divine Comedy

Bede Adam Hero of George Eliot's novel of this name He is a village carpenter, in love with Hetty Sorrel, a vain, weak girl The simple nobility of his character comes out in his fidelity to her in trouble

Bedivere Sir One of King Arthur's Knights of the Round Table, who is alone with the king at his death and throws the sword Excalibur into the lake He appears in Tesiayson's Morte D'Arthur

Belch Sir Toby From Twelfth Night (Shakespeare) The rollicking, tippling companion of Sir Andrew Aguecheck (q v)

Benedick Hero of Shakespeare's Much Ado About Nothing Al-though he has vowed to remain a bachelor, he admires and fights many battles of wit with Beatrice (qv), and successfully woos her

Ben Hur Central figure of Low Wallace's novel of the same name, a stirring tale of gladiatorial combats, chariotracing and the Roman government of the Jows in the time of Christ.

Bennet Elizabeth Horoine of Jane Ausmiddle-class life—Pride and Prejudice

Bindle Cockney furniture remover, the hero of many humorous exploits and practical jokes From Bindle and other books by Herbert Jenkins

Boniface From The Beaux' Stratagem highwayman's inn at Lichfield, and renowned for his convivial welcome

Bottom Nick Athenian weaver, the chief comic character in Shakespeare's sir Benjamin From The School for Scandal (Sheridan)

Bovary Madame Weak and romantically-minded heroine of Gustave Flau-bert's Madame Bovary The wife of a doctor in a country village, she believes herself a great lover, and rulns both her husband and herself by her infidelity and extravagance

Sailor uncle of the hero Bowling Tom Saller uncle of the hero of Roderick Random (Smollett)

Brown Father Roman Catholic priest whose hobby is criminology. He appears in Chesterton's The Wisdom of Father Roman Catholic priest Brown, etc.

Brown Tom. Typical English schoolboy, the hero of Thomas Hughes's story Tom Brown's Schooldays He appears later as a youth in Tom Brown at Oxford

Buffalo Bill Fictitious here of numerous boys' stories of Wild West adventure, based on the real life of William Frederick Cody, a daring horseman who toured England and America with his circus of cowboys and Indians.

Bumble Mr Blustering, self-important tyrannical beadle of the workhouse, from Ohver Twist (Dickens)

Buzfuz Serjeant. From The Pickwick Papers (Dickens) Counsel for Mrs Bardell in her breach of promise action

against her lodger, Mr Pickwick (qv) A fussy, conceited lawyer Caliban From The Tempest (Shake-speare) An ugly, mis-shapen monster who is the slave of Prospero

Candide Hero of Voltaire's novel of that name A man who preserves an optimistic and indifferent attitude towards life, though sorely tried by misfortune and

Carmen Beautiful gipsy girl. Heroine of Bizet's opera Carmen, and of the French novel by Prosper Mérimée

Carton Sydney Dissolute hero of The Tale of Two Oilies (Dickens), whose love for Lucy Manette prompts him to take her lover's place under the guillotine

Chadband The Rev Mr From Bleak (Dickens) An oily hypocrite who uses his position as a minister to impose upon people

Charley's Aunt From the farce of the Thomas She is ludicrously impersonated by an undergraduate friend of Charley when the real aunt visits him in college, with humorous results

Cheeryble Edwin and Charles. Two brothers from Nicholas Nickleby (Dickens) The personification of benevolence in business

Hero of Bunyan's Pilorim's hristian character whose journey towards the Colestial City is the subject of the story

Christopher Robin Whose adventures in the nursery with his toys-including Winnie the Pooh, a teddy-bear—form the subject of poems and stories by A. A. Milne in When We Were Very Young, etc

Copperfield David. Hero of Dickens's name, believed to be autobiographical.

Cordelia Youngest daughter of King Lear (qv) in Shakespeare's tracedy She is the supreme type in literature of unselfish love and devotion.

Cuttle Captain. Old, one armed ship scaptain in Dickens's Dombey and Son, whose use of the phrase, "When found, make a note of," is notoriously frequent.

Coverley Sir Roger de Old time English country gentleman, created by Richard Steele and Joseph Addison in essays

appearing in The Speciator
Cressida Faithless heroine of Shakespeare's Troilus and Cressida She is taken prisoner in the Troisn War and breaks her troth to Troilus by taking as her lover Diomed, her captor She also appears in Chancer and other writers

Crichton The Admirable See ADMIR-

rummles Vincent. Touring actor from Nicholas Nichleby (Dickens) He is the manager of the company, the husband of the tragedienne, father of the much-billed "Infant Phenomenon," and for some time employer of the hero of the novel

Robinson Shipwrecked sailor Crusoe whose adventures on an unin-habited island are told in Defoe's Robinson rusoe Orusoe.

Daddy Long-Legs From Jean Webster's Daddy Long Legs A kindly but unknown gentleman, so called by the heroine, his ward, whose letters from school form the major part of the book. He eventually marries her

D'Artagnan Brilliant and Wibty and adventurer, the hero of Alexandre Dumas's romances, The Three Musketeers, Twenty Years

Deans Jeanle Heroine of The Heart of Midlothian (Scott), who makes an arduous journey to London to obtain a royal pardon for her sister Effie, imprisoned for the murder of her illegitimate child

Desdemona Ill fated heroine of Shakes peare's Othello She is murdered by her husband, whose doubts as to her fidelity have been aroused by Iago (q v )

Mr Harmless half wit from David Copperfield (Dickens) His efforts to write a book are thwarted by his inability to keep out a reference to the head of Charles I, and by pauses for flying kites

Dinah From Uncle Tom's Cabin (H Beecher Stowe) The coloured cook to the St. Clair family

Dishart Gavin Hero of Barrie's The terian clergyman who falls in love with a beautiful glpsy girl and afterwards discovers that she is a titled lady in disguise

Dogberry Amusing and talkative con Much Ado About Nothing He continually mixes words, eg, "Comparisons are odorous"

Doone Lorna Deroine of Lorna Doone, by R. D Blackmore By birth a lady, she is brought up by the Doones, a band of outlaws living on the wilds of Exmoor She eventually marries John Ridd (q v )

Dracula Count. Central figure of Dracula, Bram Stoker's novel of the supernatural. The chief of the Vampires, he sucks the blood of healthy human beings, who in turn become vampires

Drummond Bulldog Amateur criminal investigator created by "Sapper" (H C McNelle) in his series of

detective novels beginning with Bulldog | Drummond detective Easy Mr. Midshipman. Hero of Captain

Em'ly Little Trapic figure in David Copperfield (Dickens) She clopes with Steerforth, who quickly deserts her her old uncle, Daniel Persotty, searches the world for her At last they are reunited and eottio in Australia.

Esmeralda Beautiful cipsy dancer from Victor Hugo's The Hunchback of Noire Dame. She delights the crowds in the Paris streets, but eventually, in spite of the efforts of Quasimodo (q v) she is tragically put to death

Everyman Character representing the whole human race, who aret appeared in the medieval morality plays

Eyre Jane Governess heroine of Charlotte Bronto's Jane Eyre. She goes to teach the child Adèle at Mr Rochester's mysterious home, falls in love with her master

and eventually marries him.

Fagin Despicable Jew who acted as receiver to thieves and was a professor of crime in Dickons's Oliver Twist. He is executed as an accessory after a murder.

Faithful From Bunyan's Pilorin's Pro-on his journey from the City of Destruction, but is taken up to heaven in a chariot of fire at Vanity Fair

Falstaff Sir John Fat, bibulous old Falstaff knight in Shakespeare's Henry IV. His amerous adventures are related in The Merry Wives of Windsor, and his death is reported in Henry V.

Fatima Last and lovellest of the wives of her brothers saves her from sharing the fate of

his other brides

ner brouners saves her from sharing the late of his other brides

Fauntleroy Little Lord From the movel of this name by Mrs Burnett. Born in America, he falls heir to the English carldom of Dorincourt.

Finn Huckleberry. Titular here of Mark ventures during the slavery troubles are also recounted in Tom Savyer (qv)

Flanders Moll Notorious woman, a dabbled in every type of crime and finally reformed Her adventures are recorded by Defoe in The Fortunes of Moll Flanders

Ford Mistress. One of Shakespeare's Merry husband delight in ridiculing Falstaff (qv)

Forsytes The Family created by John Saga, A Modern Comedy, On Forsyte 'Change, etc It covers more generations and treats the individuals (e.g., Soames) in greater detail then perhaps any other family record in English literature. English literature.

Frankenstein Medical student who creates a living man from limbs and organs of bodies collected from graves and mortuaries. The monster has a short life, in which it terrorless the country-side and almost murders its creator From the novel, Frankenstein, by Mrs Shelley

Friar Tuck Jovial member of Robin Friday Man Savage, from Robinson Crusoe (Defoe) He becomes servant to Robinson Crusoe

Fu-Manchu Dr. Picturesque oriental criminal, with a subtle western polish and culture He appears in Sax Rohmor's The Devil Doctor, The Mystery of Dr. Fu-Manchu, etc

Gamp Mrs Sarah From Dickens's Martin A large and garralous nurse, invariably carrying an umbrella and alluding to her imaginary friend Mrs Harris.

Gargantua From the novel of the same with a huge appetite and an unquenchable thirst, founder of the somewhat unecclesiastical Abboy of Theileme

Giant Despair Christian's captor and lord of Doubting Castle, from Bunyan's Pilorim's Progress
Gil Blas Well-born and highly educated and morality are sorely lacking The adventurer here of Le Sage's novel of Spanish gay life.

Gilpin John London tradesman whose back is described by Cowper in a narrative poem of the same name

Goodfellow Robin See Puck

Gradgrind Thomas From Dickens's uncharitable owner of a hardware shop who finds no place in life for finer feelings

Gray Dorian. From Oscar Wilde's novel the Picture of Dorian Gray A handsome, accomplished young man who does not show the marks of his dissipation as the years pass The change, however, takes place on a mysterious portrait of himself

Greatheart Mr. From Bunyan's guides Christian's wife and children towards the Colestial City, following on the steps of Christian (q v)

Griselda Personification of meekness, virtue and long-suffering in a wife She is the heroine of a story told by the

wife She is the heroine of a story told by the Clerk in Chaucer's Canterbury Tales
Guinevere Faithless wife of King
Arthur who banishes here
self in remorse for her love of Sir Lancelot
(g v) She appears in Tennyson's Idylls of the
King, and throughout Arthurian legend

Gulliver Lonuel Hero of Swift's satire, gulliver's Travels He is ship-wrecked in Lilliput, the land of dwarfs, and subsequently meets strange adventures with glants in Brobdingnag, and among the Houyhnhms.

Houyhnhms.

Hamlet Prince of Denmark and hero of Shakespeare's Hamlet He avenges his father's death by killing the king his uncle, goaded on by the ghost of the dead king He is in love with Ophelia (q v)

Handy Andy Blundering Irishman. Bamuel Lover's novel of the same name.

Hardcastle Miss Kato. Daughter of a country squire, she becomes a domestic in order to win the love of a bashful suitor, Marlow She is the heroine of She Stoops to Conquer (Goldsmith)

Harold Ohlide Intellectual but jaded through Europe, from Childe Harold's Pilarimage (Byron)

grimage (Byron)

Mrs. Imaginary friend of Mrs. Gamp (qv) in Dickens's Martin Harris Ohuzzlewii.

Bovary Madame Weak and romantically-bert's Madame Bovary The wife of a doctor in a country village, she believes herself a great lover, and rulns both her husband and herself by her infidelity and extravagance

BOVARY

Bowling Tom. Sallor uncle of the hero of Roderick Random (Smollett) Brown Father Roman Catholic priest whose hobby is criminology. He appears in Chesterton's The Wisdom of Father Brown, etc.

Brown the hero of Thomas Hughes's story Tom Brown's Schooldays He appears later as a youth in Tom Brown at Oxford.

Buffalo Bill Flotitious hero of numerous boys' stories of Wild West adventure, based on the real life of William Frederick Cody, a daring horseman who toured England and America with his circus of cowboys and Indians.

Bumble Mr Blustering, self important tyrannical beadle of the workhouse, from Oliver Twist (Dickens)

Buzfuz Serjeant. From The Pickurck Papers (Dickens) Counsel for Mrs. Bardell in her breach of promise action against her lodger, Mr Pickwick (q v) A fussy, conceited lawyer

Caliban From The Tempesi (Shake-monster who is the slave of Prospero

Candide Hero of Voltaire's novel of that optimistic and indifferent attitude towards life, though sorely tried by misfortune and affliction.

Carmen Beautiful gipsy girl Heroine of Bizet's opera Carmen, and of the French novel by Prosper Mérimée

Carton Sydney Dissolute hero of The Tale of Two Oilies (Dlokens), whose love for Lucy Manette prompts him to take her lover's place under the guillotine

Chadband The Rev Mr. From Bleak hypocrite who uses his position as a minister to impose upon people

Charley's Aunt From the farce of the Thomas She is ludicrously impersonated by an undergraduate friend of Charley when the real aunt visits him in college, with humorous results

Cheeryble Edwin and Charles Two brothers from Nicholas Nichleby (Dickens) The personification of benevolence in business

Hero of Bunyan's Pilgrim's Progress An allegorical character whose journey towards the Celestial City is the subject of the story

Christopher Robin Little boy whose adventures in the nursery with his toys—including Winnie the Pooh, a teddy-bear—form the subject of poems and stories by A. A. Milno in When We Were Very Young, etc

Copperfield David. Hero of Dickens's novel of this name, believed to be autobiographical

Cordelia Youngest daughter of King Lear (qv) in Shakespeare's tragedy She is the supreme type in literature of unselfish love and devotion.

Cuttle Captain old, one armed ship's-captain in Dickens's Dombey and Son, whose use of the phrase, "When found, make a note of," is notoriously frequent.

Coverley Sir Hoger de Old time English country gentleman, created by Richard Steele and Joseph Addison in essays appearing in The Speciator

Cressida Fathless heroine of Shakes-peare's Troilus and Cressida. She is taken prisoner in the Trojan War and breaks her troth to Troilus by taking as her lover Diomed, her capter She also appears in Changes and other parters. Chaucer and other writers.

richton The Admirable ABLE CRICHTON See ADMIR-

Crummles Vincent. Touring actor from Nicholas Nichleby (Dickens)
He is the manager of the company, the husband of the tragedienne, father of the much billed "Infant Phenomenon," and for some time employer of the hero of the novel.

Shipwrecked sailor Robinson Crusoe Crusoe whose adventures on an unin-habited island are told in Defoe's Robinson Огивое

Daddy Long-Legs From Jean Daddy Long Legs A kindly but unknown gentleman, so called by the heroine, his ward, whose letters from school form the major part of the book. He eventually marries her

D'Artagnan Brilliant and Willy and adventurer, the hero of Alexandre Dumas's romances, The Three Musketeers, Twenty Years

Jeanie Heroine of The Heart of Deans Deans Midlohian (Scott), who makes an arduous journey to London to obtain a royal pardon for her elster Effle, imprisoned for the murder of her illegitimate child

Desdemona Ill-fated heroine of Shakes peare's Othello She is mur dered by her husband, whose doubts as to her fidelity have been aroused by Iago (q v )

Harmless half-wit from David DICK Copperfield (Diokens) His efforts to write a book are thwarted by his inability to keep out a reference to the head of Charles I,

and by pauses for flying kites

Dinah From Uncle Tom's Cabin (H
Beecher Stowe) The coloured cook

to the St. Clair family

Dishart Gavin Hero of Barrie's The terian clergyman who falls in love with a beautiful gipsy girl and afterwards discovers that she is a titled lady in disguise

Dogberry Amusing and talkative con Much Ado About Nothing He continually mixes words, e.g., "Comparisons are odorous"

Doone Lorna. Heroine of Lorna Doone, by R. D. Blackmore. By birth a lady, she is brought up by the Doones, a band of outlaws living on the wilds of Exmoor. She eventually marries John Ridd (q v)

Count. Central figure Dracula Of the supernatural The chief of the Vampires. he sucks the blood of healthy human beings, who in turn become vampires

Drummond Buildog Amateur criminal investigator created by "Sapper" (H C McNelle) in his series of

Little John One of Robin Hood's ironically, because of his immense stature

Little Minister See DISHART

Little Nell From Dickons's Old Curimodel behaviour and worldly wise ways, who accompanies Grandfather Trent on his travels

ochinvar (Scott) He ls a vounce LOCAINVAL (Scott) He is a vounce highland lord who snatches his love from the teast on the eve of her marriage to a rival

Lothario Daching adventurer and hand come profilente, hero of Nicholas Rowe's The Tair Penieral

Lovelace From Richardson's tracedy, Clarissa Marione Ho is a libertine who betrays the love of Clarissa.

Lumpkin Tony. Simple but good hearted practical jokes, from Goldsmith's She Stoops to Conquer Ho is the stop-brother of the heroine. Kate Hardeastle (q r)

Lupin Arsène Gentleman burglar who rent his prospective victim his visiting-card He is the hero of Maurice Le Blance & Exploits of Arsène Lupin

Mab Queen of the fairles. She appears throughout English poetry from Ben Jonson to Shelley

Ben Jonson to Shelley

Macbeth Scottish thane who, fired with ambition fanned by his wife and the prophecies of three witches, murders King Duncan in Glamis Castle and becomes king. He is killed in battle by Macdual From

ling He is stilled in battle by Macbeth (Shakespeare)

Macduff Thans of Fife who avenges the Macduff Thans of his wife and children by Macbeth (7 v) in a hand-to-hand combat. From Macbeth (Shakespeare)

Macheath Captain From John Gay's Macheath The Beggar's Opera. A

handsome highwayman who escapes from prison with the help of Lucy Lockit, but finally marries her rival, Polly Peachum (q v )

Mad Hatter The Amusing character encountered by Alice and prominent at the Mad Tea Party, in Lewis Carroll's Alice in H'onderland

Maid Marian Horolne of the Robin Hood legends She was a noble lady who joined the outlaw band.

Malaprop guish (qv) in Sheridan's The Rirals She is continually misusing words, hence the term "malapropism"

Malvolio Conceited steward in the Conceited steward in the Service of the Countess Olivia. He is led to believe that she is in love with him by a trick of Sir Toby Belch (qv) and Sir Andrew Aguecheek (qv)

Marguerite by Faust in her love for him She is the heroine of Goethe's opera, Faust, and loses her reason after killing her own child

and loses her reason after killing her own child

Marmion Hero of Scott's poem of the same name, celebrating the Battle of Flodden

Marner Silas Weaver and reputed Marner miser, the here of George Eliot's Silas Marner Unpopular with the villagers of Raveloe, he loses his heard mysteriously, but is consoled and eventually becomes becomes popular after his adoption of a foundling girl.

father was serving a sentence for debt. Sho is the heroine of Dickens & Little Dorru Hood's fortune toller who loses her life in an attempt Little John Merry Men, so called, to restore the abducted Harry Bertram.

Merlin Magician of the legends of King Arthur, himself bewitched by the Lady of the Lake (qv) He appears as a minstrel in Celtic folk-lore He figures in Tennyson's Idylls of the King Micawber Milkins Optimist who but still expects something to turn up From Dickens's Darid Connersied

but still expects something would applicately Dickens's David Copperfield.

Minnehaha Indian name, meaning "laughing-water" or "waterfall," given to the bride of Hiawatha (qr) in Longfellow's poem

Moses From Oliver Goldsmith's Vicar Moses of Walefield He was the simple

Moses of Walefield He was the simple son of Dr Primrose (qv) and exchanged a horse for a gross of green spectacles

Mowgli Hero of The Jungle Books
(Kipling) A little Hindoo boy who lives with the animals, and has learnt their

who lives with the animals, and has learnt their language. As a baby he was suckled by a she-wolf that had lost her cubs

Musketeers The Three They were lat man. Athes, the aristocrat and eldost of the three, and Aramis, who was educated for the church, to which eventually he turns They are companions of D'Artagnan in Dumas' The Three Musketers, Twenty Years After, The Vicante de Bragelome, etc.

Nemo Captain From Twenty Thousand Verne He is the captain and navigator of a mysterious submarine ship called the Nautius

Colonel Exemplary char-Newcome Newcome actor from The Newcomes (Thackeray). He loses his fortune but maintains

Nickleby novel of the same name A boy of good parentage who seeks his own fortune, he is assistant in a Yorkshire school, member of a theatrical touring company, and finally gets a post in business in London.

O'Flynn Father Jolly Irish priest of Donegal, celebrated in the popular song, "Father O'Flynn," by Alfred Perceval Graves

Ogilvy Margaret. Beautiful Scotswoman from Barrie's book of the same name. The character, based on the author's mother, is a touching tribute to her.

Old Bill Humorous soldier in Great War journalism, created by Bruce Bairnsfather in his sketches and cartoons

Old Mortality Eccentric old man in same name He spent his time restoring tombstones and monuments

O'Malley Charles From Charles Lever's dragoon, hero of an Irish regiment.
O'More Rory. Celebrated in the song by Samuel Lover, which was suggested by the hero of the author's novel of the same name

Ophelia Daughter of Polonius and heroine of Shakespeare's Hamlet. She loses her mind because of the apparent madness and cruelty of Hamlet towards her Her body is found floating down a stream

Orlando Young noble who meets and falls in love with Rosalind in the

Heep uriah. Sycophantic, cringing clerk, always emphasising his "rumble-ness" while scheming against his employers From Dickens's David Copperficid.

Hawatha Traditional character in the folk-lore of the North American Indians. He is the hero of Long

fellow's poem of the same name

Holmes Sherlock. Conan Doyle's famous detective who elucidates mys teries by scientific deduction. As an antidoto to crime he plays the violin, smokes his pipe and drugs himself with cocaine injections. He appears in The Hound of the Baskervilles, eto

Hook Captain Pirate chief from J M Barrie's Peter Pan He is pursued by a crocodile, of which he is warned by the loud ticking of a clock it has swallowed

Horatio Loyal friend of the Prince in Shakespeare's Hamlet.

Hyde Mr Baser half of the dual personality of Dr Jokyll (qv) From R. L Stevenson's The Strange Case of Dr Jekyll and Mr Hyde

Iago Villain of Shakespeare's Othello An ensign in Othello's army, he fabricates an intrigue between Cassio and Desde mona (q v) in order to arouse the Moor's jealousy

Imogen Heroine of Shakespeare's Cymbeline. Her fidelity to Posthumus, her husband, is proved in spite of the scandalous whisperings of the villain, Iachimo

Iseult (or Isolde) Heroine of Wagner's opera Tristan and Isolde, who also appears in poems by Tennyson, Swinburne and Arnold She is a legendary beauty for love of whom Sir Tristram (qv) dies of grief

Ivanhoe Favourite knight of Richard the Lion Heart, and hero of Scott's Ivanhoe He is in love with the beautiful Saxon girl, Rowens

Jackson Peter Clgar merchant, here of Gilbert Frankau's novel of the same name He is a city business man who finds romance in ordinary married life

Jaques A lord attendant upon the banished duke in As You Like It (Shakespeare), renowned for his extreme melancholy

Jarvie Baille Nicol Glasgow magistrate in scal, generous nature with an air of vain self-importance and brusqueness.

Jeames de la Pluche Humorous character created by W M Thackeray in a series of articles contributed to Punch. A footman whose successful speculations gave him money enough to find a place in society

Jeeves Perfect manservant, "the cream of gentlemen's gentlemen," whose humorous adventures are told by P G Wodehouse in The Inimitable Jeeves, Very Good, Jeeves, etc.

Jekyll or Brilliant and noble doctor who discovers a drug capable of changing his personality Under its influence be becomes the criminal and dissolute Mr Hyde Unable at last to return to his true nature, he commits suicide From The Strange Case of Dr Jekyll and Mr Hyde (R. L Stevenson)

Jingle Alfred. Plausible rascal and jailbird from Dickens s Pickwick Papers Mr Pickwick tries to reform him, being much imposed upon during the process

Jones Tom Hero of Henry Fielding's masterpiece, Tom Jones His high spirits, love of adventure and gallantry lead him into many escapades, not always creditable.

Jorrocks Mr Humorous country sportsman, hero of Handley Cross, by R. S Surtees He also appears in Jorrocks' Jaunts and Jollities

Jude Fawley Central figure of Thomas Jude the Obscure. A working man with a passion for knowledge, his efforts to become a scholar are frustrated by his circumstances.

Juliet Heroine of Shakespeare's Romeo and Juliet The lover of Romeo, the son of her family's enemies, she is placed in the family tomb under a drug and apparently dead, and on waking discovers the dead Romeo by her side, whereupon she commits suicide

Karenina Anna. Heroine of Tolstoi's novel of the same name. She is a beautiful and passionate woman who marries an old man. She forsakes him for her young soldier lover and in the end commits suicide.

Kettle Captain Hero of numerous sea stories by O S Outcliffe Hyne A typical English merchant sailor, abounding in courage, resource and good spirits

K1m Hero of Kim, by Rudyard Kipling He is an orphan boy who begins life in the Bazaar at Lahore and finally makes an adventurous and amusing journey to Benares with a lama from Tibet.

K1pps From H G Wells's novel of that title. He is a shop boy who finds fortune and romance amongst the buffeting of business and bourgeois society

Lady of Shalott The Beautiful maiden in Tennyson's poem of this name, who brings a curse upon herself by looking away from the magic thread she is woaving, to gaze upon Sir Lancelot riding down to Camelot.

Lady of the Lake The Beautiful dwelling in the mere in Arthurian legend. From Tennyson's Idylls of the King Another Lady of the Lake is the woman outlaw, Ellen Douglas of Loch Katrine, heroine of Scott's poem of the same name

Lancelot Sir Knight of the Round Table, with whom King Arthur's queen, Guinevere (q v ) fell in love

Languish Lydia Sentimental young lady in The Rivals (Sheridan)
She is in love with Captain Absolute (q v)

Lear Aged King of Britain who, having delegated his royal authority to them, is driven insone by the perversity of his two elder daughters, but comforted by his youngest, Cordelia. From Shakespeare's King Lear

Learoyd Joek Yorkshireman from Rud yard Kipling's Soldiers Three

Leigh Amyas Hero of Kingsley's Westvard Ho, who salls to the Indies in pursuit of the Spanish captor of his love He takes part in the rout of the Armada

Little Billee Hero of Trilby, by is one of a trio of Bohemian artists in the Latin Quarter of Paris Another Little Billee is the hero of Thackeray's sea ballad of the same name

Little Dorrit the prison where her

father was serving a centence for debt. She is t the heroine of Dickens's Little Porrit

Little John One of Robin Hood's Merry Men, so called, ironically, because of his immense stature.

little Minister see Dishart.

ittle Nell From Dickens's Old Currently Shop A child of A child of model boliaviour and worldly wise ways, who accompanies Grandfather Trent on his travels

Lochinvar Hero of a ballad in Marmion (Scott) Ho is a vounce highland lord who snatches his love from the feast on the eve of her marriage to a rival

Dashing adventurer and handothario las Rowe's The Fair Pentlent

Ovelace From Richardson's truendy. libertine who betrays the love of Clarissa.

Lumpkin Tony. Simple but good hearted country squire delighting in practical jokes from Goldsmith's She Sloops to Conquer He is the step brother of the heroine. Kate Hardeastle (q r)

Lupin Arsone Gentleman burglar who Lupin Arsone Gentleman burglar who

upin Aradno Lupin Arsenc Gentleman burglar who risiting-card He is the hero of Maurice Le Diano's Exploits of Arsenc Lupin Mab Queen of the fairles She appears Heroughout English poetry from Ben Jonson to Shelley

Macbeth Scottish thano who, fired with ambition fanned by his wife and the prophecies of three witches, murders King Duncan in Glamis Castle and becomes king He is killed in battle by Macduff From Macbeth (Shakespeare)

Macduff Thane of Fife who avenges the by Macbeth (gr) in a hand-to hand combat. From Macbeth (Shakespeare)

From Macbeth (Shakespeare)

Macheath Captain From John Captain Beggar's Opera handsome highwayman who escapes From John Gay's from prison with the help of Lucy Lockit, but finally marries her rival, Polly Peachum (q v )

Mad Hatter The Amusing character encountered by Allco and prominent at the Mad Tea Party, in Lowis Carroll s Alice in Wonderland

Maid Marian Heroine of the Robin Hood legends She was a noble lady who joined the outlaw band.

Malaprop Mrs Aunt of Lydin Languish (qv) in Sheridan's The Rirals She is continually misusing words, hence the term "malapropism."

Malvolio Conceited steward IVIAIVOI10 service of the Countess Olivia He is led to believe that she is in love with him by a trick of Sir Toby Belch (q v) and Sir

Andrew Aguerite Simple maiden betrayed Marguerite Simple maiden betrayed by Faust in her love for him. She is the heroing of Goethe's opera, Faust, and her between the betwee and loses her reason after killing her own child

Marmion Hero of Scott's poem of the Battle of Flodden

Marner Silas Weaver and reputed Marner miser, the hero of George Eliot's Silas Marner Unpopular rith the villagers of Rayeloe, he loses his hoard mysteriously, but is consoled and eventually becomes popular after his adoption of a foundling girl.

Meg Merrilees From Guy Manner-fortune teller who loses her life in an attempt to restore the abducted Harry Bertrum.

Merlin Masician of the legends of King Arthur, himself bowltched by the Lady of the Lake (gr) He appears as a minestrel in Celtic tolk-lore Ho figures in Tennyson's Idylls of the King Micawber Mr. Wikins Optimist who but still expects something to turn up, From Dickens's David Copperfield Minaches Indian name meaning

Minnehaha Indian name, meaning or "laughing water or or waterfall," given to the bride of Hawatha

Moses of Wakefield He was the simple son of Dr Primrose (qr) and exchanged a

Mowgli (Kipling). A little Hindee hoy Mowgli Hero of The Jungle Rooks who lives with the animals, and has learnt their language As a baby he was suckled by a she-well that had lost her cubs

Minetrateure The Three They were

Musketeers The Three They were fat man. Athes, the aristocrat and eldest of the three, and Aramis, who was educated for the church, to which eventually he turns They are companions of D'Ariagnan in Dumas' The Three Musl eleers, Twenty Years After, The Vicomie de Bragelonne, etc.

Nemo Captain From Twenty Thousand Verne He is the captain and navigator of a mysterious submarine ship called the Nantilus.

mysterious submarine ship called the Nautitus.

Exomplary char-Colonel (Thackerny). He loses his fortune but maintains his upright moral hearing Newcome

Nickleby Nicholas Hero of Dickens's Nickleby novel of the same name. A boy of good parentage who seeks his own fortune, he is assistant in a Yorkshire school, member of a theatrical touring company, and finally gots a post in business in London.

O'Flynn Father Jolly Irish priest of Donogal, colobrated in the popular song, "Father O'Flynn," by Alfred Perceyal Grayes

Ogilvy Margaret. Beautiful Scotswoman from Barrie's book of the same name The character, based on the author's mother, is a touching tribute to her.

Old Bill Humorous soldler in Great War Bairnsfather in his sketches and cartoons.

Old Mortality Eccentric old man in some name. He spent his time restoring tombstones and monuments

O'Malley Charles. From Charles Lever's arrangement A dragoon, here of an Irish regiment

O'More Rory. Celebrated in the song by Samuel Lover, which was suggested by the hero of the author's novel of the same name

Ophelia Daughter of Polonius and Sphelia heroine of Shakespeare's Hamlet She loses her mind because of the apparent madness and cruelty of Hamlet towards her. Her body is found floating down a stream

Orlando Young noble who meets and falls in love with Rosalind in the

1326

QUILP

Forest of Arden, from Shakespeare's As You Like It.

Ortheris Stanley Nimble witted Cockstories by Rudyard Kipling One of the Soldiers Three, whose heart goes out to every dog he sees

Othello Moorish general in the Venetian army, the hero of Shakespeare's tragedy Othello He marries the fair Desdemona (q v) whom he kills out of jealousy He then takes his over 1400 takes his own life

Trigger Sir Lucius Humorous Irish adventurer, friend of Absolute

in The Rivals (Sheridan)

Page Mistress Wife of a gentleman of Windsor who helps in a plot to ridicule Falstaff (qv) She is the mother of sweet Anne Page," from Shakespeare's The Merry Wives of Windsor

Pamela Heroine of Richardson's Pamela She is a malden of model virtue who resists temptation and finally marries her

who resists temptation and finally marries her

would be seducer and reforms him

Pangloss Doctor Poor scholar full of learned quotations He be comes tutor to Dick Dowlas in George Colman's comedy, The Heir at Law Another Dr Pangloss is a figure in Voltaire's Candide (q v )

Pantagruel Gross but erudite son of Gargantua (qv) He is the boisterous hero of Rabelais' Gargantua and Pantagruel, and is usually in the company of the drunken rake, Panurge

Stolid, faithful squire to ixote He rides behind Panza Sancho Stoli Don Quixote him on a donkey, making mere commonsense remarks with the air of a wit. From Cervantee' Don Quixoie

Parsifal (or Sir Perceval) Leader of the appears in Arthurian legend and is the hero of Wagner's opera, Parsifal.

Partington Mrs Eccentric creation tried to sweep away the Atlantic Ocean with her mop

Patterne Sir Willoughby Central figure in The Egonat, by George Meredith. His overweening egotism obscures his good qualities, causes him to be filted by two women of his own rank, and leads him to marry a woman of humbler position.

Peachum Polly Beautiful and virtuous lady-love of the highwayman Macheath (qv) in John Gay's Beggar's Opera.

Pecksniff Mr Rogue who appears to be a plous architect. From Dickens's Martin Chuzzlevit.

Peggotty Clara. Nurse to David Copper Peggotty, an old Yarmouth fisherman. She marries Barkis  $(q \ v)$  From Dickens's David Copperfield

Peregrine Pickle Dissolute, vulgar and hot headed practical joker He is the hero of Smollett's The Adventures of Peregrine Pickle.

Peter Pan Boy who will not grow up He is the half-elf, half human hero of Sir J M. Barrie's play of that name

Pew Sinister blind man, habitue of the Admiral Benbow Inn, whose approach was signalled by the tapping of his stick. From Stevenson's Treasure Island.

Pickwick Mr Fat genial president of the Plokwick Olub, in Dickens's Pickwick Papers He is the ingenuous hero of many amusing adventures

Pistol Insubordinate ensign of Falstaff (qv) A bullying ruscal who marries Dame Quickly (qv) He appears in Shakespeare's Henry IV, Henry V and The Merry Wives of Windsor

Poirot Heroule Dapper little Belgian detective hero of Mrs Agatha Christie's crime novels. He appears in The Murder of Roger Ackroyd and the dramatised version Alibi

Polonius Chamberlain in the court of Ophella (qv) He is killed by Hamlet who mistakes him for the villainous King Claudius From Hamlet (Shakespeare)

Pooh Bah Pompous Oriental who is and every other official in the state From Gilbert and Sullivan's The Mikado

Porthos See Musketeers, The Three.

Heroine of Shakespeare's Mer-chant of Venice A beautiful Portia heiress who impersonates a lawyer in order to save the life of her lover, Antonio, who is being sued by Shylock (q v)

Primrose Doctor Simple country of The Vicar of Wakefield (Oliver Goldsmith)

Prism Miss Prudish spinster who sets her at a bachelor clergyman. Humorous character in Oscar Wilde's comedy,

The Importance of Being Earnest

Pry Paul Inquisitive idler in John Poole's
comedy of the same name He is
always using the phrase, "I hope I don't
intrude"

Puck Mischief making elf of English fairy-legend He confuses several pairs of lovers in Shakespeare's Midsummer Night's Dream. He also appears in Rudyard Kipling's Puck of Pook's Hill. He is sometimes known as Robin Goodfellow

Pujol Aristide Humorous Frenchman, hero of The Joyous Adventures of Aristide Pujol, by William J Locke
Pure Simon. Quaker who is taken for the impostor of Colonel Feignwell when the reverse is actually true. He loses the hand of his lady love to the same rascal From A Bold Stroke for a Wife, by Mrs Centilvre

Quasimodo One-eyed dwarf, hunch-backed but of predigious strength, who dwelt on the roof of Notre Dame, Paris. He was official bell ringer and the protector of the heroine Esmeralda (q v) From Victor Hugo's Hunchback of Notre Dame

Quatermain Allan Hunter hero of Rider Hag gard's novels, including King Solomon's Mines

Quex Lord. Hero of the play The Gay Lord Quex, by Sir Arthur Pinero

Quickly Mistress or Dame Hostess of the tavern in Eastcheap frequented by Falstaff (qv) She marries his ensign Pistol (qv), and appears in three of Shakespeare's plays, Henry IV, Henry V and The Merry Wives of Windsor

Quilp Daniel. Hideous and malicious (Dickens) He lives by petty crimes and money-lending, and is finally drowned in the Thames when fleeing from the law

Rab Dog here of Dr John Brown's Rab and his Friends. An affectionate mostiff with an almost human regard for his master, an old Scottish carrier

Raffles Mr. Justice. Gentleman-burglar, hero of the novel Raffles and a series of crime stories by E W Hornung

Ralph Roister Doister Conceited, blustering hero of Ralph Roister Dorster, by Nicholas Udall, written at the beginning of the 16th century.

Sensual, semante Ho is a Roderick Random Scottish adventurer fortune-seeker and traveller who mixes with the most questionable characters, and here of a novel of that name by Smollett.

Rebecca Beautiful daughter of Isaac of York. She is a Jewess who loves Ivanhoe but loses him to her rival, the Lady Rowens. From Scott's Ivanhoe

Red Cross Knight The Hero of Spenser's The Facric Queene To him Gloriana entrusted the care of Una (q v) He is the personification of holiness, who fights and slays the dragon (Sin)

Reeder J. G Detective-inspector of figure in the murder investigation in many of Edgar Wallace's mystery "thrillers"

Remus Uncle Negro story-teller on a lables about animals From J C Harris's Incle Remus's Stories

Reynard the Fox Hero of John Reynard the Fox Masofield's great poom of the hunting field. The name comes from the central character in a famous beastepic of the Middle Ages Pidd John. Tall,

Ridd John. Tall, robust Dov farmer, a famous wrestler. of R. D Blackmore's Lorna Doone robust Dovonshire Hero

Rima Forest maiden of great beauty, the chief figure of W H Hudson's South American romance, Green Mansions The protectres of the birds, she is the subject of a piece of sculpture by Jacob Epstein in the bird sanctuary in Hyde Park, London

Roderick Dhu Gallant chief of a band of outlaws who figures in Scott's poem, The Lady of the Lake.

Romeo Son of the Montagues, a noble family of Verona. He is the hero of Shakespearo's Romeo and Juliet See JULIFT

Rosalind Heroine of As You Like It She is the beautiful daughter of the banished duke who disguises herself as a boy and seeks refuge in the forest of Arden She meets and finally the forest of Arden

narries Orlando (qv)

Rose Mary Heroine of Sir J M Barrie's

ously spirited away while on a picnic to a
lonely island off the West Coast of Scotland

Rosinante Clumsy cart-horse upon on his search for adventure From Corvantes' Don Quixole

Sampson Dominic Village school-master who described every-thing as "Prodigious," from Guy Mannering (Scott)

Sawyer Bob Medical student often nicknamed "Sawbones" in The Pickwick Paners (Dickens)

Sawyer Tom Boy born and brought up the Southern States of America The mischievous and lovable hero of Mark Twain's novel, Tom Sawyer

Scheherazade Bride of the Callph from the fate of his previous wives by telling the stories known as The Arabian Nights Enterlainments

Schlemihl Peter Man without a the devil He is the here of the German story by Chamisso

Scrooge Ebonozer Heartless miser from Dickens's Christmas Carol He suddenly becomes a model of generosity and goodwill after a vivid ghost dream

Shallow Justice Absurd and boastful country magistrate from Shake-Absurd and boastful speare's Merry Wives of Windsor

Shandy Tristram Hero of Sterne's novel nophew of Uncle Toby (q v )

Sharp Booky Fascinating adventuress

Sharp Becky Fascinating adventures Sharp whose ambition was to marry and become good Heroine of Thackeray's novel, Panity Fair

She Mystical African queen and priestess, oboyed She is the central figure in Rider Haggard's novel, She

Shylock for of Venice who insists on the pound of flesh which is his, according to a bargain with an unfortunate merchant Ho loves before everything his "ducats and his daughter" From Shake-speare's Merchant of Venice

Sikes Bill Rough, cruel burglar who murders Nancy, his mistress, in Dickons's Oliver Twist Ho is the accomplice

Dickons's Oliver 1000.

of the thiof Fagin (q v.)

Silver Long John. One-legged cook aboard
the treasure-hunting ship, in

Treasure Island He is an old pirate who heads a mutiny.

Sinbad the Sailor Vovaging merfrom The Arabian Nights Entertainments

Smike Poor, ill-nourished boy found in a Yorkshire school and taken with Nicholas in his travels, from Nicholas Nickleby (Dickons) He proves to be the illegitimate son of the hero's uncle, Ralph

Snodgrass Mr Poetical member of the Pickwick Club from Dickens's Pickwick Papers

Wackford

Wackford

Squeers Mr Wackford Crafty, cruel boys Hall, Yorkshire, sometime employer of Nicholas From Dickens's Nicholas Nichleby

Stalky Schoolboy hero of Ki school story, Stalky and Co Kipling's

Standish Miles Puritan captain who does his love-making by proxy
He is the hero of Longfellow's The Courtship of Miles Standish

Stiggins The Hev. Mr. Drunken hypocrite who poses as spiritual adviser of Mrs. Weller. A Methodist minister from Dickons's Pichwick Papers

Svengali Mesmerist who hypnotises mesmerist who hypnotises and mesmerist who hypnotises are the decree by Manylor's post. Trilling The Rev. Mr. Drunken hypo-

Trilby (q v ) in George Du Maurier's novel, Trilby, Swiveller Dick Dissipated, scatter-brained young law apprentice who finally marries money. From Dickens's Old Curiosity Shop.

Tam o' Shanter Hero of Robert innocent accomplice of a gang of thieves He that name He sees a dance of witches in a ruined church, led by Old Nick (Satan) himself,

Tyltyl Youthful hero of Maurice Maeter-linek's play The Rive Ried when returning drunk from market.

Tanqueray Psuls. Heroine of the play, The Second Mrs

Tapley Mark. Stable boy in Dickens's Chuzzlewii. A body-servant to the hero, he was cheerful in the most difficult situations.

Humorous and boastful hero Tartarin of Alphonse Daudet's novel, Tartarin de Tarascon, and its sequels, Tartarin

sur Les Alpes, eto

Tarzan Hero of Edgar Rice Burroughs's Tarzan of the Apes, etc. He is reared by a she ape when his parents die on a desert island, lives in the trees and becomes king of the jungle

Teazle Lady Roguish, coquettish young Sheridan's School for Scandal She becomes involved in an intrigue with Surface

Tess Tragic heroine of Thomas Hardy's She is betrayed by her lover and afterwards hanged for his murder

Teufelsdröck Herr Professor with a special philosophy concerning clothes. He is the central figure in Carlyle's Sartor Resartus

Tiny Tim Delicate child of Bob Cratchit, a hard working clerk in Dickens's Christmas Carol

of Toad Hall. Character of The Wind in the Willows, by Kenneth His rash conceit leads him con-Toad tinually into trouble He celebrates his own exploits and honour in boastful verses

Toby Uncle Lovable old soldier wounded in the French wars He is noted for his charitable, Christian character From Sterne's Tristram Shandy

Tom Uncle Aged and venerable negro-slave, hero of Uncle Tom's Cabin, by H. Beecher Stowe.

Topsy Mischlevous young slave-girl of unknown parentage, who describes herself as having "just growed." From Mrs Beecher Stowe's Uncle Tom's Cabin Another Topsy is the modern heroine of The Trials of Topsy, and Topsy, M.P., by A P

Herbert.

Touchstone Jester or clown in Shake-speare's As You Like It He combines philosophy with his wit.

Trilby Artist's model who becomes, under the influence of Svengali (qv), a noted opera singer She is the heroine of George Du Maurier s Trilby

Tristram Sir One of the knights of in love with Isolde (q v ), the wife of King Mark, his uncle He is the here of Arnold's Tristram and Iscult and Swinburne's Tristram of Lyonesse, and he also appears in Tennyson's Idylls of the King and Malory's Morie D Arthur

Trotwood Betsy Old woman with a heart, great-aunt of David and his "second" mother From Dickens's David Copperfield

Wist Oliver Poor orphan boy, reared in vorkhouse, the young and

Tyltyl Youthful nero of manner Blue Bird

Heroine of Spenser's Facric Queene. Una She is the personification of truth, and finally marries her champion, the Red Cross Knight (q v )

Van Winkle Rip Man who falls and wakes to find very changed manners and customs in the same old world. He is the hero of Washington Irving's story, Rip Van Winkle.

Varden Bolly From Dickens's Barnaby Rudge Pretty heroine dressed in a flower trimmed hat and a little flowery gown now called after her She marries the landlord of the Maypole Inn.

Vathek From the Eastern romance of the same name by William Beckford A gifted caliph with an uncontrolled ambition which leads him to sell his soul for a throne to Eblis, or Satan

Diana Heroine of Scott's Rob Vernon v CIHUIL Roy A maiden who knows no fear in her fight for the Jacobite cause V101a From Twelfth Night (Shakespeare) Disguised as a page, she becomes the servant of the duke, Orsino, with whom she falls in love

Vivien The Lady of the Lake (q v ) An enchantress in Arthurlan legend

Vox Valentine Ventriloquist hero of Henry Cockton's novel of the same name He uses his powers largely to play amusing pranks

Watson Boctor Friend (q v ) Friend of Sherlock (qv) From Conan Doyle's series of mystery novels

Weller Sam. Cockney boots of the White Hart Inn, who becomes personal servant to Mr Pickwick (qv) in Dickens's Pickwick Papers

Heroine of Barrie's Peter Pan Wendy She becomes Peter's sweetheart and shares his home in the tree tops

Pudd'nhead Hero of a humorous novel of the same name by Mark Twain. He was so nicknamed by his fellows on account of his stupid remarks

Wimble Will Simple, happy member of the De Coverley Club with a love for fishing, cutting willow wands and innocent country pursuits He appears in the essays of Addison and Steele in The Spectator

Winkle Mr Member of the Pickwick Club who claimed to be a sports man, but who made dismal failures as an ice skater and as a horseman Pickwick Papers From Dickens's

Winkle Rip Van See Van Winkle

Yellowplush Mr Footman to smart London society, the hero author of The Yellowplush Papers

Yeo Salvation. Devonshire "Old salt" from Kingsley's Westward Ho

Yorick Jester to the King of Denmark, Hamlet's father, in Shakespeare's Hamlet His skull is discovered by Hamlet in the graveyard, prompting the now proverbial remark, "Alas, poor Yorlek!"

## GUIDE TO THE CINEMA

III carly history of the cinematograph is a fruitful source of controversy, mainly because the moving picture may be said to have emerged from the chrysalis of the "still" magic lantern

America claims that Thomas Edison was responsible for the practicable invention of the motion picture in 1887, but an Enrilshman. John A Roebuck Rudge, had in 1863 introduced movement in connection with picture projection, naming the resultant invention "The Light in the Lantern"

wood, which represents 65 per cent. of the world's total, estimated about 75 per cent. of the world's total, estimated in terms of cash
in terms of cash
cinemas Great Britain has a total of 4,712, in addition to approximately 200 places where films are exhibited occasionally
Approximately 650 British cinemas, including a large percentage of the best in the country, are owned or controlled by film combines, the rest being owned singly or in groups. movement in connection with picture projection, naming the resultant invention "The Light in the Lantern"

William I riese Greene, another English ploncer, also was ahead of the I dison invention with a moving picture recorded in 1885 on paper which he rendered transparent by immersion in castor oil It was not until 1889 that Priese-Greene evolved his first celluloid Their discoveries created world wide interest but although developments had, by 1903, presented the film of the story-telling medium—"The Great Train Robbery" was made in that year—it is doubtful whether any one could at that stage have foreseen the creation of any industry such as resulted.

Edison was also responsible for some of the earliest talkles, which he obtained by the simple process of synchronising the film with his famous Edison-Bell records

his famous Edison-Hell records
To-day close on £850 000,000 is invested in
the motion-picture industry of the world
During the year ended 1934 the total number
of paid admissions in Great Britain was 963
millions The amount paid by the public for
these admissions was £41,120,000, and of this
sum about £6,500,000 was deducted on account
of the Entertainment Tax then in force
The average weekly attendance is about

The average weekly attendance is about 181 millions

The rate of progress of the cinema in public favour gained momentum during the years 1914 to 1920 until to day it is the greatest entertainment medium in the world Film producing companies floated their own distributing agencies and acquired or built chains of cineman movement which spread to of cinemas—a movement which spread to Britain, now the second-best film market in the world

With the fast-growing popularity of films here American companies or their subsidiaries sought financial interest in British cinemas, and even to-day have strong holdings in one of the major circuits consisting of about 400 cinemas

A reversal to this procedure was made early in 1936, when Lord Portal, at the head of a big group, acquired through General Film Distributors a very considerable holding in Universal Pictures, one of the most important major independent production units of America.

Another phase in this trend is noticed in the adoption by United Artists of Alexander Korda as an owner-producer of United Artists, thereby coming into association with Chaplin, Goldwyn and Fairbanks

bines, the rest being owned singly or in groups, by companies or individuals with no interest in film production or distribution

Since the Cinematograph Films Act came into force, the length of British feature films registered has increased steadily from 624,000 feet in the year ending March 31, 1930, to 1,183,000 feet five years later

This Act decrees that of the total footage of film exhibited in every cinema in Great

This Act decrees that of the total footage of film exhibited in every cinema in Great Britain a percentage shall be of British origin, and of the total footage stocked by every film distributor a slightly higher percentage shall be of British origin. This percentage, which started at 5 per cent. for the cinema owners and 71 per cent for the film distributors in 1927, has risen progressively year by year until 1936, when it reaches a total of 20 per cent British film in both

British film in both
This large percentage in exhibition and distribution is often difficult to fulfil and in a number of instances has resulted in the production of cheap films (Quota quickles) These are universally condemned, and it is anticipated that when the Act expires in 1938 there will be a drastic overhauling. The wishes of the trade are being consulted, and it is safe to assume that as a result an entire redraft of the

Act will ensue

Immediately following the introduction of the Films Act of 1927 a large number of new British production companies was floated, principally on public subscription, which was in many cases generally taken up Of nearly twenty such flotations only six or seven are now functioning successfully. This fact is due now functioning successfully This fact is due largely to the introduction by Warner Brothers Pictures of America, and the Vitaphone Corporation of America, of the synchronised talking film, and the consequent public demand for talking pictures in preference to silent ones After recovering from the early setback the production side has made vast strides With a total in the neighbourhood of 200 films 1935 was a boom year, and 1936 promises even a greater output. New and bigger studios are being erected, challenging the best in Hollywood

The first British talkie film was shown in 1924 at the British Empire Exhibition by

Or Lee de Forest
On September 27, 1928, the first public
exhibition of American talking films (Vita-The main object of American investors who have placed finance in British cinemas has always been to secure such control of the cinemas as would ensure a maximum outlet in the country for the film production of Hollyexploited by Gaumont-British were shown at the Capitol Theatre, London. A month earlier "Seventh Heaven" had been seen at the New Gallery, London, with Fox Movietone recorded music but no dialogue

It was nearly a year after the first Vitaphone film reached this country that the first important British talking film, Alfred Hitchcock's "Blackmail" was completed at British

"Blackmall" was completed at British International Studios, Elstree Since the earliest days of cinematography, the aim has been the presentation of moving pictures in natural colours. For about twenty years the studios in England, America and the Continent have been experimenting with colours trying to arrive at a system that would be nearly perfect in the reproduction of natural

colours and economic to produce
Since Charles Urban in 1912 produced his
celebrated film of the Delhi Durbar there have been numerous systems invented, some like Urban's cinemacolor separating the primary colours in camera work and joining them together in projection, some firms even resorted

to hand tinting
Until the season 1934-5 little progress was made in developing colour as a commercial proposition Now it promises to play an increasingly important part in film entertainment. Many subjects in colour are announced by American producers, and close on a score will be made in English studios during 1936

The system to be used for the majority of these will be Technicolor Dufaycolor, a

On September 28, 1928, some short talking British system, which will also be employed, films recorded in the British Acoustic system was used by Associated British Pictures for a was used by Associated British Pictures for a sequence of "Radio Parade of 1935"—first commercial use of British colour process. In the near future television is expected to

play an important part in the film world. At the moment the news reel movement is perhaps the most actively interested in television development, and undoubtedly within the immediate future an attempt will be made to intersperse television programmes with the usual film fare In Germany daylight television vans, operating on the intermediate film system, are employed in the films of topical

The film as an educational force is now receiving recognition in all parts of the country, especially in Scotland, where many of the town educational authorities have made grants for the installation of cinematograph equipment in schools. The LCC, have also devoted a large sum for experiments in this direction

Much valuable work in educational film development is also being carried out by the British Film Institute

One of the countries outside of Great Britain to make the biggest advance in film production during recent years is India Here there are from forty to fifty production companies.

The most accurate production data available

The most accurace production data avanable is an estimate based on the pictures censored by the Bombay and Calcutta Boards During the period January to October, 1935, a total of 346 Indian pictures was examined by these boards This total compares with 321 during April and March, 1933-4
The total number of cinemas in India is 675

## WHO'S WHO IN THE CINEMA

A glossary of facts regarding the more important film actors, actresses, producers, and directors of the day The following abbreviations have been used in the text b born, m married, dv divorced, r n real name

Astaire Fred b May, 10, 1900, Omaha, and others Nebraska. Brown hair and eyes Mayer Studie 5 ft 9 ins tall Married Evelyn Potter Made Rarrym 5 ft 9 ins tall Married Evelyn Potter Made debut with Adele Astaire, his sister, in vaude-ville in New York in 1912 First appearance in London in 1925, in "Stop Filiting" They appeared together in London and since 1931 Fred has appeared alone in "Flying Down to Rio," "Dancing Lady," "The Gay Divorce," "Roberta," "Top Hat," and "Follow the Fleet." Address, c/o RKO Radio Studios, 780 Gover Street Hollwroad Callfornia.

Gower Street, Hollywood, California.

At 11SS George & April 10, 1868, Blooms
brown eyes 5 ft. 9 in. tall

Married Florence brown eyes 5 ft. 9 in. tall Married Florence Montgomery He scored many successes on the American stage Made his film debut in the silent version of "Disraeli." He next made "The Green Goddess" (silent) Other films include—'Disraeli," "Old English," "Alexander Hamilton," "Voltaire," "The House of Rothschild," "Cardinal Richelleu," "The Guv'nor," "The Tunnel," "The Mind of Mr Reeder" Address, o/o Gaumont British Studios, Lime Grove, Shepherd's Bush, W 12 Barrymore John. b February 15, 10 ins tall. Brown hair and blue eyes His films include—"Beau Brummel," "Grand Hotel," 'Cardigan's Last Case," "A Bill of Divorcement," "Rasputin, the Mad Monk," "Dinner at Eight," "Twentieth Century," "Wednesday's Child," "Romeo and Juliet

and others Address, c/o Metro Goldwyn-Mayer Studios, Culver City, California. Barrymore Llonel b April 28, 1878, Philadelphia 6 ft. tall Dark hair and blue eyes. On New York stage scored hits in "The Copperhead" and other plays. Films include—"Friends" (in which he made his screen debut), "Rasputin," "The Stranger's Return," "Dinner at Eight," "David Copperfield," "Little Colonel," The Return of Peter Grimm "Address, c/o Metro-Goldwyn Mayer Studies Culver City California Goldwyn Mayer Studios, Culver City, California
Baxter Warner b Columbus, Ohio,
1803 5 ft. 111 in.,
dark brown h es Married Winifred es Married Windred
are—"Those Who
ather," "Ramona,"
addy Long Legs,"
""Such Women
Condential Bryson. Dance," In Old "In " Paddy ere D Movietene City, April 1, tall. Gloria Kansas and Was for New

Tug

Barnum," "West Point of the Air," "China hair, brown eyes; and great deal of amateur Seas," "Mutiny on the Bounty," and "O'Shaughnessy's Boy" Address comments of Marco Studies, Culver City, California Brook Ed Dulwich College 5 ft. 11 ins, brown hair and grey eyes Married Mildred Evely, English actress Secretary, newspaper "Bulldog Drummond," "Raffles," "Beau Geste," "Bulldog Drummond," "Raffles," "Glive of India." Evely, English actress Secretary, newspaper reporter and soldier, he took up stage work after the war, played for a time in England, then as a free lance played in Hollywood He made, among others, "The Four Feathers," "A Dangerous Woman," "The Return of Sherlock Holmes," "The Laughing Lady," "East Lynne," "Cavalcade," "The Gallant Lady," "Dover Road," "Dictator," "Love in Exile," "Lonely Road" Address . c/o Associated Talking Pictures Ltd., Ealing Green, W 6

Cantor Eddie b January 31, 1893, New eyes Married Ida Tobias Became star of Ziegfeld Follies in 1920 Made his film debut in 1926 in "Kid Boots" Continues his stage career Films include—"The Kid from Spain," "Roman Scandals," "Kid Millions," "Strike Me Pink" Address o/o United Artists Studies, 1041 N Formosa Avenue, Hollywood, California.

California.

Cagney James. b July 17, 1904, New York. 5 ft 9 in tall. Weighs 155 lbs Red hair and brown eyes Father—Irish Married Frances Vernon Films include—"The Millionaire," "Jimmy the Gent," "Devil Dogs of the Air," "G Men," "A Midsummer Night's Dream," "The Irish in Us," "Frisco Kid" Address: c/o Warner Bros, First National Studios, Burbank, California

California
Chaplin Charlie b April 16, 1889
Chaplin London Educated there 5 ft,
6 ins tall; dark hair, blue eyes Married (1)
Mildred Harris, (2) Lita Grey (both marriages
were dissolved) He toured in "Sherlock
Holmes," as Billy, the page, and played in
pantomime Went to America and later made
"Tillie's Punctured Romance," with Marie
Dressler His films since include the "Charlie"
pletures, and since the war, "Carmen,"
"Clarus", "The Kid", "The Gold Rush" "Circus," "The Kid," "The Gold Rush,"
"Circus," "The Kid," "The Gold Rush,"
"City Lights," "Modern Times" Address
c/o United Artists Studios, Hollywood, Cali-

Chevalier Maurice b September 12, 1894, Menilmontant, Franco, 5 ft 11; in tall, brown hair and blue eyes Married Yvonne Vallee (divorced) Chevalier became dancing partner to Mistinguette at the pecame unicing parmer to Mistinguetto at the Folies Bergere and continued the partnership after active war service Films include—"The Love Parade," "Playboy of Paris," "The Merry Widow," "The Man from Folies Bergere" He came to England to make "The Beloved Vagabond" Address of Toeplitz Productions, 32 St James' Street, London, 8 W 1

Colbert Claudette b. September 13, Calidette Cauchoin. Black hair and brown eyes 5 ft. 5 in tall Stage debut—1924 Pictures include—"The Lady Lies," "The Misleading Lady," "The Man from Yesterday," "The Sign of the Cross," "The Gilded Lily," "Private Worlds," "She Married Her Boss" Address . c/o Paramount Studios, Hollywood, California

hair, brown eyes; and great deal of amateur acting and made his professional debut in 1914 After war service he played in "The Misleading Lady", subsequently went to America, 1920 Gave up stage for film work. Films include—"Romola," "The Dark Angel," "Lady Windermere's Fan," "Beau Geste," "Bulldog Drummond," "Raffles," "Bulldog Drummond Strikes Back," "Clive of India," "A Tale of Two Cities," "Under Two Flags" Address c/o Twentieth-Century Fox Studios, 1401 N Western Avenue, Hollywood, California fornia

GABLE

Cooper Gary. b May 7, 1901, Helena, Montana, of English descent 6 ft 2\frac{1}{2} ins tall Light blue eyes and brown hair Started as an extra and in Westerns Films include—"The Lives of a Bengal Lancer," "The Wedding Night," "Peter Ibbetson," "Desire," "Opera Hat," "The General Died at Dawn," "The Light that Falled" Address o/o Paramount Studies, Hellywood California. Hollywood, California.

Hollywood, California.

Courtneidge Cicely. b. April 1, 1893 Sydney, NSW
Brown hair and eyes Married Jack Hulbert. Has had a great number of stage successes Films include—"The Ghost Train," "Jack's the Boy," "Soldiers of the King," "Things are Looking Up," "Me and Marlborough," "The Imperfect Lady" Address colo Gaumont British Studies. Lime Grove, Shepherd's Rush. British Studios, Lime Grove, Shepherd's Bush. London W 12.

Crawford Joan. b. March 23, 1906 San Antonio, Texas. Red-dish hair and dark-brown eyes, 5 ft 4 ins tall. dish hair and dark-brown eyes 5 ft 4 ins tall. Real name, Billy Cassin Married Douglas Fairbanks, junr, 1929 (divorced). Married Franchot Tone, 1935 Made her debut in rovue in Chicago Films include—"Our Dancing Daughters," "Untamed," "Montana Moon," "Dance, Fools, Dance," "Grand Hotel," "Dancing Lady," "Sadie Mockee," "Forsaking All Others," "I Live My Life," "Elegance," and "The Demi-Widow." Address c/o Metro-Goldwyn-Mayer Studies, Culver City, California Dietrich 1906, Berlin 5 ft 5 ins tall Redemid hair and blue even Moural Pudal

Dietrich Marlene b December 27, 5 ft 5 ins tall Red-gold hair and blue eyes Married Rudolf Red-gold hair and blue eyes Married Rudolf Sieber Made her debut in the German version of "Broadway" and spent the next three years of her life playing in German films and on stage in musical comedy Films include—"Morocco," "Dishonoured," "Shanghai Express," "The Blonde Venus," "Song of Songs," "The Scarlet Empress," "The Devil is a Woman," "Desiro" Address: c/o Paramount Studios, Hollywood, California

Disney Walt. b December 6, 1901, Chi-and served as a camouflage expert in the Great and served as a camounage expert in the Great War Unsuccessful as a commercial artist, he produced the "Alice" comedies for the screen 1923-26 In 1928 he began the Mickey Mouse pictures He also created the "Silly Symphonics" In 1936 won Academy Award for best short cartoon of 1934 with "The Tortoise and the Hare"

Caludette Cauchoin. Black hair and brown eyes 5 ft. 5 in tall Stage debut—1924 Pictures include—"The Lady Lies," "The Misleading Lady," "The Man from Yesterday," "The Sign of the Cross," "The Gilded Lily," "The Sign of the Cross," "The Gilded Lily," "Films include—"The Rise of Helga," "For-Private Worlds," "She Married Her Boss" saking All Others," "Call of the Wild," Address. o/o Paramount Studios, Hollywood, California

Colman Ronald. b Feb 9, 1891, Rich-clso "Address c/o Metro-Goldwyn-Mayer Colman Ronald, Surrey. 6 ft. tall. Black

Garbo Greta. b September 18, 1906, Stockholm, Sweden. 5 ft. 6 ins tall Blonde hair and green eyes Daughter of Eric Pertscher, Swedish Sven Gustafson. comedy director, gave her a test First picture "Erik the Tramp," a comedy, brought her to the attention of Mauritz Stiller, the greatest the attention of Mauritz Stiller, the greatest director in Sweden. First American role in "The Torrent." An immediate success, followed by "The Temptress," "The Kiss," "Fiesh and the Devil," with John Gilbert Also appeared with Gilbert in "Love" Other pictures include "The Divine Woman," Wild Orchids," "The Mysterious Lady," "The Single Standard," "A Woman of Affairs" All these were silents "Calkies include "Anna Christie," "Romance," "Inspiration," "The Rise of Helga," "As You Desire Me," "Grand Hotel," "Queen Christina," "The Painted Vell," "Anna Karenina," "Canaille" Address c/o Metro-Goldwyn Mayer Studios, Culver City, California fornia

Goldwyn Mayer Studios, Culver City, Callfornia

Gaynor October 6, 1907 Golden brown hair and brown eyes 5 ft tall Married Lydell Peck, September 11, 1929 (Divorced.) In 1924 she made her screen debut as an extra. "Seventh Heaven" (1927), a film which followed scon after, made her a star overnight Other films are "Midnight Kiss," "Street Angel," "Sunny Side Up," "Daddy Long Legs," "Tess of the Storm Country," "Paddy the Next Best Thing," "The Farmer Takes a Wite," "Small Town Girl." Address of o Fox Studios, Movietone City, Hollywood, California. Harding Sam Houston, Texas Golden hair and blue eyes 5 ft 2 ins Married Harry Bannister (mar dis) A screen test led to starring contract Pictures include—"Hollday," "Paris Bound," "The Girl of the Golden West," "Condemned," "East Lynne," "Life of Vergle Winters," "The Flame Within," "Peter Ibbetson," "The Lady Consents," and "Witness Chair" Address; o/o Radio Studios, 780 Gower Street, Los Angeles, California Hardy of a politician. 6 ft 1 in. tall Dark hair and eyes Married Hobby—golf Films include—"Blotto," "The Laurel and Hardy Murder Case," "Chickens Come Home," "Pack Up Your Troubles," "Soram," "Fraternally Yours," "Hollywood Party," "Babes in Toyland," "Bonnie Scotland," "Bohemian Girl" Address o/o Metro Goldwyn Mayer Studios, Culver City, California Harlow 1911 Real name Harlean Carpentier 5 ft 2; ins Platinum blonde hair, blue-green eyes Married (1) Charles McGrew of Chicago, (2) Paul Bern, well known Hollywood director, who committed suicide in 1932, Sonn after their marriage. (3) Hall Rossen the

Carpentier 5 ft 2 ins Platinum blonds had, blue-green eyes Married (1) Charles McGrew of Chicago, (2) Paul Bern, well known Hollywood director, who committed suicide in 1932, wood director, who committed suicide in 1932, soon after their marriage, (3) Hal Rossen, the cameraman, now divorced. Went to Hollywood where she was offered "arta" work. Later played for about two years in Hal Roach comedies, bits, etc. and had a role in Clara Bow's "Saturday Night Kid." Other pictures are "The Iron Man," "The Secret Six," "Skyline" "Married in Haste," "Dr Fu "Enemies of the Publio," "Dinner At Eight," "Skyline" "Married in Haste," "Dr Fu "Hold Your Man," "Blonde Bombshell," "Skyline" "Married in Haste," "Dr Fu "100 Per Cent. Pure," "Wife Versus Beore tray" Address o/o Metro Goldwyn-Mayer Studios, Culver City, California.

Hepbura 1909, daughter of Mr Hepbura of Hertford, Connecticut Auburn hair and green eyes Married Ludlow Smith Walls in Aldwych farces became famous "Walls in Aldwych farces became famous

(marriage dissolved) First film "A Bill of Divorcement" Others are "Morning Glory,"
"Spitfire" Went to New York to star in stage production of "The Lake" Latest films—
"The Little Minister," "Breaker of Hearts,"
"Alice Adams," "Sylvia Scarlett," and "Mary of Scotland" Address of Radio Studios, 780 Govern Street Los James Colleges.

780 Gower Street Los Angeles, California
Hopkins Miriam. b October 18, 1902,
U.S.A. 5 ft., golden hair, blue eyes Made stage debut in 1921 Films include "The House Between," "Dr Jekyll and Mr Hyde," "The World and the Flesh," "The Richest Girl in the World," "Becky Sharp," "Barbary Coast," "Splendour," "These Three," "The Princess and the Pauper "Address c/o Samuel Goldwyn Studios, 1041 N Formosa Avenue, Hollywood,

California Hulbert Jack. b April 24, 1892, Ely, 6 ft. Brown hair and blue eyes. Married Cicely Courtneidge Now famous on London stage, also well known as producer and writer Films include—"Elstree Calling," "The Ghost Train," "Sunshine producer and writer films include—"Elstree Calling," "The Ghost Train," "Sunshine Susie," "Jack's the Boy," "Love on Wheels," "Happy Ever After," "Jack Ahoy," "The Camels are Coming," "Bulldog Jack," "Jack of All Trades" Address c/o Gaumont British Studios, Lime Grove, Shepherd's Bush, W 12
Laughton Charles b July 1, 1899,
Scarborough Educated

Laughton

Scarborough

Educated

Stonyhurst College and Royal Academy of

Dramatic Art

Served during War Married

Elsa Lancaster 5 ft. 10 ins , fair hair , blue

eyes

Stage debut Barnes Theatre, 1926

Talkie film debut as drunk in "Piccadilly"

Other films include "Comets," "Devil and the

Deep," "The Sign of the Cross," "The Island

of Lost Souls," "Henry VIII," "The Barretts

of Wimpole Street," Marie Antoinette," "The

Prince of Darkness," and "Good-bye Mr

Chips," Address c/o Metro Goldwyn Mayer

Studio, Culver City, California.

Laurel Stan b June 16, 1895, Ulverston,

Eugland Educated King's

Grammar School, Bishop Auckland. Married

Grammar School, Bishop Auckland. Married Lois Neilsin. 5 ft 9 ins tall, fair hair, blue eyes Films include—"The Laurel and Hardy Murder Case," "Hollywood Party," "Babes in Toyland," "Bonnie Scotland," "Bohemian Girl" Address... c/o Metro Goldwyn Mayer

Murder Case," "Hollywood Party," "Babes in Toyland," "Bonnie Scotland," "Bohemian Glrl" Address c/o Metro Goldwyn Mayer Studios, Culver City, California

Lloyd Harold b April 21, 1894, Burchard, Nebraska, U.S.A. Educated public schools, Omnha, Denver, and San Diego Married Mildred Davis 5 ft 10 ins tall, black hair, blue eyes Stage experience Began film career 1900 Pictures include "Grandma's Boy," "Safety Last," "Kid Brother," "Speedy," "Welcome Danger," "The Cat's Paw," "The Milky Way" Address c/o Paramount Studios, Hollywood, California.

Loy Myrna. b August 2, 1905, Helena Loy Montana. 5 ft. 4 ins tall. Red hair and green eyes. Began soreen career 1925 Films include—"The Desert Song," "Body and Soul," Connecticut Yankee," "Transatlantic," "Skyline," "Married in Haste," "Dr Fu Manchu," "Thirteen Women," "Vings in the Dark," "Wife Versus Secretary," "The Great Ziegfeld," "The Whipsaw" Address c/o Metro Goldwyn Mayer Studios, Oulver City, California

and blue-grey eyes 6 ft 5 ins tall Father, former Bishop of Claremont, Rt Rev Andrew McLaglen Travelled considerably and became champion boxer of Eastern Canada Served with Irish Fusiliers as Lieutenant in the War Made film debut in British picture, "The Call of the Road" Pictures include—"The Glorious Adventure," "Beau Geste," "Loves of Carmen," "Rackety Rax," "Hot Pepper," "Dick Turpin," "Klondyke Annie," Under Two Flags," "Soldiers Three" (in England) Address of Twentleth Century-Fox Studios, 1401 N Western Avenue, Hollywood.

Address o/o Twentleth Century-Fox Studios, 1401 N Western Avenue, Hollywood, o/o Gaumont British Studios, Lime Grove, Shepherd's Bush, W.12 (whilst in England) March Fredric b Racine, Wis, on Indian and brown eyes Favourito recreationshorseback riding, tennis and swimming Married Florence Eldredge Stage experience Films include "To-night Is Ours," "Design For Living," "The Barretts of Wimpole Street," "Les Miscrables," "The Dark Angel," "Anthony Adverse," "Zero Hour," Mary of Scotland "Address o/o United Artists Studios, 1011 N Formosa Avenue, Los Angeles, California California

California

Montgomery Robert b May 21,
York 6 ft 1 in Brown hair and blue eyes
Film debut in "So This is College", Others
are "Their One Desire," "Free and Easy,"
"The Divorcee," "Private Lives," "Riptide,"
"Yanessa," "Death on the Dlamond,"
"Blography of a Bachelor Girl," "Love On
the Itun" Address c/o Metro GoldwynMayer Studios, Culver City, California

Moore Grace b December 5, 1901,
Married to Valentin
Percra, Blonde hair and blue eyes 1929 made
debut at Metropolitan Opera House, New
York, in La Boheme Acted on the stage in The
Dubarry. Her films are "New Moon," "Jonny
Lynd," "One Night of Love," "On Wings of

Pictures include "Rookery Nook," "Tons of Money," "Mischief," "Thark," "Turkey of Hoffman" Address c/o Columbia Studios, Time," "Cuckoo in the Nest," "A Cup of Kindness," "Dirty Work," "Ighting Stock," "Stormy Weather," "In the Soup "Address of Gaumont British Studios, Lime Grove, Shepherd's Bush, London, W12 Thalberg Started screen career 1920 in a MCLaglen Victor b December 11, and blue-groy eyes 6 ft 5 ins tall Father, tire, "Smilln' Through," "Riptide," "The former Blshop of Claremont, Rt Rev Andrew Barretts of Wimpole Street." "Romeo and tall Brown hair and blue eyes Married Irving Thalberg Started screen career 1920 in a college picture, next lead in a Western Films include—"Last of Mrs Cheyney," "Private Lives," "Smilln' Through," "Riptide," "The Barretts of Wimpole Street," "Romeo and Juliet" Address c/o Metro Goldwyn-Mayer Studies, Culver City, California

Temple Shirley b April 23, 1929 Fair hair and blue eyes Her film debut was made in "Stand Up and Cheer" Other films include "Baby Tale a Bow," "Curly Top," "The Littlest Rebel," "Captain January," "Poor Little Rich Girl" Address c/o Fox Studies, Movietone City, Hollywood, California

California

Veidt Conrad. b January 22, 1893, Berlin Brown hair and blue eyes 6 th 2 ins tall Educated Berlin High School Married to Lill Pracgar (second wife) Distinguished careor in theatre Entered pictures inguished career in theatre Entered Pictures 1919 Later went to Hollywood Films include "Rome Express," "FPJ," "I Was a Spy," "The Wandering Jew," "Jew Suss," "Bella Donna," "King of the Damned," "The Passing of the Third Floor Back." Address c/o London Film Productions

London Film Productions
Walls Tom b February 18, 1883, KingsWalls thorpe, Northants Dark hair and
eyes 5 ft 11 ins tall Married Hilda Edwardes
Hobby—the Turi Made first stage appearance
at Glasgow, Christimas, 1905 Made screen
debut in "Rookery Nook" Other films include
"Thark," "Chance of a Night Time," "Turkey
Time," "A Cup of Kindness," "Lady in
Danger," "Fighting Stock," "Me and Marlborough" Address c/o Gaumont British
Studies. Lime Grove. Shepherd's Bush, London Studios, Lime Grove, Shepherd's Bush, London.

West Mac b Brooklyn, New York 5 ft 4 ins tall Blue eyes, yellow hair Made first stage appearance at the age of five, and wrote several plays before going to Hollywood to play in feature role in "Night After Night" Starred in "She Done Him Wrong," "I'm No Angel," "Belle of the Wincties," "Going to Town" Address c/o Paramount Studies, Marathon Street, Los

## COMPETITION HINTS

#### CROSSWORD PUZZLES

HAT Crosswords can be made a profitable pastime as well as an absorbing hobby has been proved by scores of big winners in the prize competitions conducted by newspapers and periodicals in India The widespread appeal of these fascinating puzzles may largely be accounted for by the fact that they vary from literary problems calculated to tickle the mental palate of the most crudite professor to cunningly contrived sets of Clues whose answers can readily be debated by the average man

HOW CROSSWORDS COMMENCED—First the rage in America, Crosswords soon became popular in Great Britain not only as brain teasers but also as a means of making money Though their square form is new, Crosswords are distinctly related to

the Double Acrostic, the fashionable puzzle of London in the last century

Acrostics themselves are of great antiquity The term was first applied to the obscure prophecies of the Erythræan sibyl, these were written on loose leaves and the initial letters made a word when the leaves were sorted and laid in order Certain old Hebrew poems were written in the form of Acrostics, consisting of twenty-two lines.

beginning with succeeding letters of the alphabet.

MAKING THEM BEITER.—The essential difference between the prize Crossword, in which a large sum of money is offered for arriving at a correct solution, and what might be termed the "purely pastime" puzzle which is provided "just for fun," lies in the nature of certain of the Clues In the "purely pastime" puzzles each clue is made a severe test of the solver's ingenuity, but once an answer is found all doubts are ended With the prize puzzle, however, the finding of an answer is only half the battle, for many of the Clues admit of two or more possible answers and the knotty question lies in deciding which of these alternative answers is the most apt.

When prize Crosswords first achieved popularity there was seldom any rational principle on which competitors could go to work. Clues were apt to be ordinary and obvious, continual repetition of the same questions tended to make answering them a dull business. Nor, in those days, was there often any appreciable difference in ment between the various alternative answers. Competitors just had to pay their entry-fee,

take their choice of alternatives and hope for the best

Typical Clues and alternative answers of this type were Short for Edward-TED

or NED and A Girl's Name-ADA or IDA

COMMON SENSE CONQUERS—In recent years a marked improvement has taken place in the framing of prize Crossword puzzles. A racy, entertaining type of Clue has been introduced in which slang and colloquialisms both figure within reason—this makes the answering of every Clue amusing, regardless of whether or not an alternative answer is possible

The most important change for the better which has taken place is the deliberate basing of Crosswords on common-sense reasoning. In selecting one alternative answer as the correct solution, the Competition Editor takes that which can be argued to be

better and in some cases he even explains afterwards the reason for his choice

With the new kind of common-sense Crossword, it clearly pays competitors to study closely the style of the Clues Often the key to the apter of two answers may be in some insignificant-looking word like "may" or "sometimes" one Compiler may have a liking for humorous answers whereas another may generally bind himself rigidly to sober facts Success, then, is partly a matter of getting to know the Compiler's mental characteristics and this can best be done by confining your activities to one paper's puzzles

OUTRIGHT VICTORIES—So cunningly are the better class of modern prize Crosswords compiled that, though arriving at a winning solution actually is a matter of using care and common sense, it is no easy matter to produce an entirely correct square This is obviously as it should be, for unless the puzzles were made difficult to solve, so

many entrants would succeed that the prize money would not be worth winning

A striking instance of clever compiling is afforded by the famous London paper, John Bull. In 350 Crossword Contests a single outright winner has captured the first prize once in every five times.

SUCCESS IN INDIA —The national interest in the English language, coupled with a general aptitude for argument and deduction, makes the average Indian eager to draw

swords with the keen-witted Compiler.

Apart from vast cash prizes that must be won, there is a fascination about Crosswords which makes them particularly popular with those whom old age has left lonely and others whose work takes them to outlying stations. Women find Crosswords a mental stimulant that mixes well with housework and their natural intuition helps them frequently to beat all their male rivals.

ILLUSTRATED WEEKLY OF INDIA CROSSWORDS—The popular puzzles conducted by the Illustrated Weekly of India are common-sense Crosswords which have a wide appeal throughout the country Handsome prizes are offered, a typical one-week offer consisting of a Rs. 10,000 First Prize, with Rs 5,000 for distribution amongst runners-up (those with one error more than the First Prize winner or winners) Additional awards consisted of a Rs 100 Portable Gramophone for every sender of an entirely correct solution, a Rs 50 Kodak camera for each one-error winner and special consolation awards for entrants with two and three errors

A typical result of an *Illustrated Weekly of India* Crossword shows four senders of all-correct solutions receiving Rs 2,125 each as well as a Portable Gramophone One-error solutions were received from 7 solvers, to each of whom went Rs 214-5-0 and a Rs 32 Wrist Watch Cash prizes of Rs 85-11-0 each were awarded to 42 entrants with two errors who also received bonus awards value Rs. 10, and finally, 148 three-error entries were rewarded with Rs 6-12-0 apiece as well as bonuses value Rs 3 The winning entries came from such widely scattered places as Bombay, Srinagar, Kandy and

Lahore.

After the appearance of the official correct solution, the *Illustrated Weekly of India* publishes arguments from competitors showing why they decided on various correct alternative answers to the Clues, as well as comments by the Compiler himself. These helpful notes form a valuable guide to winning form and prove clearly that it is profitable to study closely the common-sense principles on which the puzzles are based

INTERLOCKING WORDS—A typical Clue seen in an Illustrated Weekly of India Crossword was, Constant repetition of this at social gatherings will not increase your popularity, for the answer to which entrants had to decide between YARN or YAWN Linked with this downward Clue was this across. Responsible for many couples becoming

acquainted, to which alternative answers were RINK or WINK.

It will be noticed that the answers to these Clues could be made to "interlock." In this case the entrant's choice of the former answer's third letter (R or W) affected his

decision to commence the other answer with R or W

In this connection it is important to realise that each wrong word counts as one error and one wrong letter which makes two words wrong (as it would in this instance were the wrong two answers chosen) counts as two errors. An ingenious Compiler can arrange his puzzle so that one word interlocks with several others, but the number of alternatives in any one puzzle is always kept within reasonable bounds.

READ THE RULES—It is of course possible to achieve success by haphazard methods, and a hastily considered solution dashed down on a coupon at the last minute may turn out to be entirely correct. In the vast majority of cases, however, it is going to work on the Clues in a careful and systematic manner that commands success. There is nothing to prevent the same entrant winning time after time and one frequently sees the same names reappearing amongst the winners. Such consistent winning is invariably the result of carefully planned and regular entries.

Every entrant's first step on the road to the prize list should be to make himself thoroughly familiar with the rules. At first glance the regulations governing the completion of squares, method of entry and so on may seem unreasonably rigid. It must be remembered, however, that conducting a Crossword is a complicated matter, demanding a time-table which must be adhered to relentlessly. With big amounts of prizemoney to be distributed, it is only fair to all competitors that each one should be called upon to fulfil the requirements laid down.

First of all, a stated entry-fee is required Indian Postal Orders or Indian Money Orders must be sent to cover the number of Crossword square coupons submitted To facilitate sorting and checking, competitors are requested to attach Postal Orders to their entry coupons and write the official number of the Postal Order in the space provided on the coupons Post Office receipts for Money Orders must also be attached to coupons

TAKE CARE WITH COUPONS—All entries must be submitted on coupons provided Coupons must be filled in with ink in block letters or else typewritten Pen

called entries are disqualified

No alterations or corrections are permitted once a square is completed, and any letter space left blank will cause the whole square to be disqualified. Copy squares are provided for competitors and, to avoid spoiling a valuable entry, it is advisable to use the copy squares for preliminary work.

The surname of each entrant is required to be written on the back of the envelope

containing his entry

CLAIMS AND SCRUTINIES—In the past competitors were usually expected to submit claims of successful solutions when the winning square was published. Now, in order to save entrants this trouble, most journals undertake to scrutinise every coupon received and notify winners. This is the method now in force with the *Illustrated Weekly of India* 

No claims are required in these contests but should any competitor not announced as a winner consider that he has entered a coupon eligible for a prize, he can submit a Scrutiny Claim. Such claims must be entered by a stated date and, in order to avoid unnecessary searching caused by frivolous claims, a Scrutiny Fee of Rs 5 is required this fee is returned to the competitor should his claim prove correct. If a Scrutiny Claim does prove correct, the distribution of that contest's prize money has to be readjusted accordingly

CLOSING DATE—All entries must be received by a specified closing date and Crossword squares arriving too late are disqualified. A one-week contest conducted by the *Illustrated Weekly of India* usually closes 12 days after date of publication, but an extension of 2 days is allowed to competitors in distant parts of India this extension

privilege applies to all districts 48 hours or more by mail from Bombay

FAMILY ENTRIES—Many winners find that besides providing entertainment for the home, it pays to make Crosswords a family affair. Two heads are better than one and debating the Clues at a family conference often reveals unexpected angles on the

Clues

Family entries are accepted as a combined entry, provided all members entering bear the same surname. Coupons may be sent in one envelope with the family's surname and number of coupons submitted written on the back of the envelope. The surname and separate initials of each member of the family competing must be clearly written on their entry coupons. Such family entries may be covered by one Postal or Money Order.

Even the young folks can have their Crossword fun, for special Children's Cross-

words are provided with attractive prizes

DICTIONARY HELP—Although no uncommon or far-fetched words are used in common-sense Crosswords, a good dictionary can be of great service to competitors Chambers's Twentieth Century Dictionary is the standard dictionary used by the Compiler of the Illustrated Weekly of India's Crosswords At the back of this volume will be found a Supplement Section this contains many slang words and up-to-date colloquialisms which figure in common-sense Crosswords

FINAL HINTS—The surest way of improving your skill as a Crossword solver is to keep your copy squares and when the winning solution appears, note your errors carefully Re examine the Clues and you will be able to see why you went wrong as

well as where

Regular entry provides the finest training for would-be winners and here is an excellent axiom to remember If you do not enter, you cannot possibly win!

# INDIAN CONSTITUTIONAL REFORM

(UNOFFICIAL)

by Mr Montagu, the then Secretary of State for India, in the House of Commons on the 20th August, 1917, when

he said —
"The policy of His Majesty's Government,
with which the Government of India are in complete accord, is that of the increasing association of Indians in every branch of

the administration and the gradual develop-ment of self-governing institutions with a view to the progressive realisation of re-sponsible government in India as an integral part of the British Empire"

The announcement proceeded —
"I would add that progress in this policy can
only be achieved by successive stages The British Government and the Government of India, on whom the responsibility lies for the welfare and advancement of the Indian peoples, must be judges of the time and measure of each advance, and they must be guided by the co-operation re-ceived from those upon whom new opportunities of service will thus be conferred, and by the extent to which it is found that confidence can be reposed in their sense of responsibility"

This announcement was followed by the Government of India Act of 1919, under which India is administered to-day. The Royal Proclamation on the passing of that Act gives the story in brief of the political development

of the country —
"The Act of 1833 opened the door for Indians
"The Act of 1833 opened the door for Indians
"The Act of 1833 opened the door for Indians of 1858 transferred the administration from the (East India) Company to the Crown and laid the foundations of public life which exist in India to-day The Act of 1861 sowed the seed of representative institutions, and the seed was quickened into life by the Act of 1909 The Act which has now become law entrusts the elected representatives of the people with a definite share in the government and points the way to full responsible government here-after"

The 1919 Act provided that an inquiry should be made into the working of the system of government and as to whether and to what extent it was desirable to establish the principle of responsible government. In pursuance of this provision the Indian Statutory Commission, under the Chairmanship of Sir John Simon, was appointed in 1927 to carry out this

Report to Parliament in May, 1930
Hut Sir John Simon, in a letter to the Prime Minister (Mr Ramsay MacDonald) in October, 1929, pointed out that the Commission, in considering the direction which the future from Burma

HE existing Indian Constitution had constitutional development of India was likely its origin in the announcement made to take, had been impressed with the need for a to take, had been impressed with the need for a full examination of the possibilities of the relationship which might develop in the future between British India and the Indian States between British India and the Indian States
The Commission therefore recommended that,
after they had completed their Report, His
Majesty's Government should meet representatives of British India and of the Indian
States for the purpose of seeking the greatest
possible measure of agreement for the final
proposals which it would later be the duty of
His Majesty's Government to submit to
Parliament.

This recommendation was accepted by the

Parliament"
This recommendation was accepted by the Government, and the Indian Round Table Conference, of which there were three sessions, was inaugurated by His Majesty the King in London, in November, 1930 This Conference laid the foundations of a Federation of the Indian States and of the Provinces of British India The Burma Round Table Conference, which was called for the purpose of considering a separate Constitution for Burma, was opened by the Prince of Wales in November 1931
These Conferences were followed by the presentation to Parliament in March, 1933, of the Government's proposals for the new Constitution These proposals were founded on the following principles—

(a) Autonomy for the Provinces of British India, with certain special powers in the hands of Governors,

(b) A Federation of the Indian States and

British India, and (c) Central responsibility, subject to certain safeguards, e.g., the reservation of Defence and Foreign Affairs, and the placing of powers in the hands of the Governor-General to enable him to carry out certain special responsibilities

The House of Commons, after a three days' debate, commencing on 29th March, 1933, passed a Resolution in the following terms—"That, before Parliament is asked to take a decision upon the proposals contained in Command Paper 4268, it is expedient that a Joint Select Committee of Lords and Commons, with power to call into consultation representatives of the Indian States and of British India, be appointed to consider the future government of India and, in particular, to examine and report upon the proposals in the said Command Paper" Paper "

On 6th April, after a three days' debate, the Peers concurred in this Resolution and a Joint Committee composed of 16 members of each Committee composed of 16 memors of each House was ultimately constituted. With the Committee were brought into consultation seven delegates from the Indian States, 21 delegates from British India and 12 delegates from Burma. The delegates took part in over First of all, a stated entry-fee is required Indian Postal Orders or Indian Money Orders must be sent to cover the number of Crossword square coupons submitted To facilitate sorting and checking, competitors are requested to attach Postal Orders to their entry coupons and write the official number of the Postal Order in the space provided on the coupons Post Office receipts for Money Orders must also be attached to coupons

TAKE CARE WITH COUPONS—All entries must be submitted on coupons provided Coupons must be filled in with ink in block letters or else typewritten Pen

called entries are disqualified

No alterations or corrections are permitted once a square is completed, and any letter space left blank will cause the whole square to be disqualified. Copy squares are provided for competitors and, to avoid spoiling a valuable entry, it is advisable to use the copy squares for preliminary work.

The surname of each entrant is required to be written on the back of the envelope

containing his entry

CLAIMS AND SCRUTINIES—In the past competitors were usually expected to submit claims of successful solutions when the winning square was published. Now, in order to save entrants this trouble, most journals undertake to scrutinise every coupon received and notify winners. This is the method now in force with the *Illustrated Weekly of India* 

No claims are required in these contests but should any competitor not announced as a winner consider that he has entered a coupon eligible for a prize, he can submit a Scrutiny Claim. Such claims must be entered by a stated date and, in order to avoid unnecessary searching caused by frivolous claims, a Scrutiny Fee of Rs.5 is required this fee is returned to the competitor should his claim prove correct. If a Scrutiny Claim does prove correct, the distribution of that contest's prize money has to be readjusted accordingly.

CLOSING DATE—All entries must be received by a specified closing date and Crossword squares arriving too late are disqualified. A one-week contest conducted by the *Illustrated Weekly of India* usually closes 12 days after date of publication, but an extension of 2 days is allowed to competitors in distant parts of India. this extension

privilege applies to all districts 48 hours or more by mail from Bombay

FAMILY ENTRIES —Many winners find that besides providing entertainment for the home, it pays to make Crosswords a family affair. Two heads are better than one and debating the Clues at a family conference often reveals unexpected angles on the Clues

Family entries are accepted as a combined entry, provided all members entering bear the same surname. Coupons may be sent in one envelope with the family's surname and number of coupons submitted written on the back of the envelope. The surname and separate initials of each member of the family competing must be clearly written on their entry coupons. Such family entries may be covered by one Postal or Money Order.

Even the young folks can have their Crossword fun, for special Children's Cross-

words are provided with attractive prizes

DICTIONARY HELP—Although no uncommon or far-fetched words are used in common-sense Crosswords, a good dictionary can be of great service to competitors Chambers's Twentieth Century Dictionary is the standard dictionary used by the Compiler of the Illustrated Weekly of India's Crosswords At the back of this volume will be found a Supplement Section—this contains many slang words and up-to-date colloquialisms which figure in common-sense Crosswords

FINAL HINTS—The surest way of improving your skill as a Crossword solver is to keep your copy squares and when the winning solution appears, note your errors carefully Re-examine the Clucs and you will be able to see why you went wrong as

well as where

Regular entry provides the finest training for would-be winners and here is an excellent axiom to remember If you do not enter, you cannot possibly win!

## INDIAN CONSTITUTIONAL REFORM

(UNOFFICIAL)

he said —
"The policy of His Majesty's Government, with which the Government of India are with which the Government of the formula of the for in complete accord, is that of the increasing association of Indians in every branch of the administration and the gradual development of self-governing institutions with a view to the progressive realisation of re-sponsible government in India as an integral part of the British Empire"

The announcement proceeded I would add that progress in this policy can only be achieved by successive stages The only be achieved by successive stages. The British Government and the Government of India, on whom the responsibility lies for the welfare and advancement of the Indian peoples, must be judges of the time and measure of each advance, and they must be guided by the cooperation received from those upon whom new opportunities of sources will thus be conferred. tunities of service will thus be conferred, and by the extent to which it is found that confidence can be reposed in their sense of responsibility "

This announcement was followed by the Government of India Act of 1919, under which India is administered to-day The Royal India is administered to-day The Royal Proclamation on the passing of that Act gives the story in brief of the political development

of the country—
"The Act of 1833 opened the door for Indians to public office and employment The Act of 1858 transferred the administration from of 1858 transferred the administration from the (East India) Company to the Crown and laid the foundations of public life which exist in India to-day The Act of 1861 sowed the seed of representative institutions, and the seed was quickened into life by the Act of 1909 The Act which has now become law entrusts the elected has now become law entrusts the elected representatives of the people with a definite share in the government and points the way to full responsible government hereafter "

The 1919 Act provided that an inquiry should be made into the working of the system of government and as to whether and to what extent it was desirable to establish the principle

HE existing Indian Constitution had its origin in the announcement made by Mr. Montagu, the then Secretary of State for India, in the House of Commons on the 20th August, 1917, when to take, had been impressed with the need for a full examination of the possibilities of the relationship which might develop in the future between British India and the Indian States. The Commission therefore recommended that, after they had completed their Report, His Majesty's Government should meet representatives of British India and of the Indian States" for the purpose of seeking the greatest bases had measure of agreement for the final possible measure of agreement for the final proposals which it would later be the duty of His Majesty's Government to submit to Parliament."

Parliament "
This recommendation was accepted by the Government, and the Indian Round Table Conference, of which there were three feesions, was inaugurated by His Majesty the King in London, in November, 1930 This Conference laid the foundations of a Federation of the Indian States and of the Provinces of British India The Burma Round Table Conference, which was called for the purpose of considering a separate Constitution for Burma was opened by the Prince of Wales in November, 1931

by the Prince of Wales in November, 1931
These Conferences were followed by the presentation to Parliament in Myrch, 1933, of the Government's proposals for the new Con stitution These proposals were founded on the following principles—

(a) Autonomy for the Provinces of British India, with certain special powers in the hands of Governors, (b) A Federation of the Indian States and

British India, and (c) Central responsibility, subject to certain central responsionary, subject to certain safeguards, eg, the reservation of Defence and Foreign Affairs, and the placing of powers in the hands of the Governor General to enable him to carry out certain special responsibilities.

The House of Commons, after a three days' debate, commencing on 29th March, 1933, passed a Resolution in the following terms—"That, before Parliament is asked to take a

decision upon the proposals contained in Command Paper 4268, it is expedient that a Joint Select Committee of Lords and Commons, with power to call into consultation representatives of the Indian States and of British India, be appointed to consider the future government of India and, in particular, to examine and report upon the proposals in the said Command

extent it was desirable to establish the principle of responsible government. In pursuance of this provision the Indian Statutory Commission, under the Chairmanship of Sir John Simon, was appointed in 1927 to carry out this inquiry and the Commission presented its Report to Parliament in May, 1930

But Sir John Simon, in a letter to the Prime Minister (Mr Ramsay MacDonald) in October, 1929, pointed out that the Commission, in considering the direction which the future

70 of the meetings The Committee held over i 150 meetings, examined over 120 witnesses and the volumes of evidence record over 17,000 questions

The Report of the Committee was published on 21st November, 1934, and was debated by the House of Lords and by the House of

Commons on the following motion —
"That this House accepts the recommends tions of the Joint Committee on Indian Constitutional Reform as the basis for the revision of the Indian Constitution and considers it expedient that a Bill should be introduced on the general lines of the Report "

The motion was carried in the House of Lords by 239 votes to 62, and in the House of Commons by 410 to 127

#### GOVERNMENT OF INDIA ACT

The Act provides for the establishment of an All India Federation constituted by linking eleven British Indian Provinces (two of them new) in a Federal system with those Indian States prepared to enter the Federation by the voluntary act to enter the Federation by the voluntary act of their Rulers The establishment of the Federation is dependent on the accession of States containing not less than half the total States' population, and entitled to fill at least half the seats provided for States' representatives in the Federal Upper House No change is made in the internal regime of the States, nor in the relationship between their Rulers and the Crown outside the Federal sphere The provisions of the Bill enable the Provinces to manage their own affairs to a greater extent than at present. The great majority of the departments of Government which affect individuals from day to day (among them Law and Order), as well as certain items of rovenue (for example, Land Taxes) are made the business of the Provinces. The Federation deals with matters such as Currency and Taxiffy within aspects build as a certain and Tariffs, which concern India as a whole Two questions of great importance, however, Defence and Foreign Relations, remain the direct responsibility of the Governor-General Each of the Provinces has a directly elected

Legislative Assembly, and in five Provinces there is an Upper as well as a Lower House The Federation itself will have an Upper and

Assemblies, Federal and Provincial, a quota of seats is ensured to the various minorities

Both at the Federal Centre and in the Provinces, Governments will be formed of Ministers responsible to their Legislatures in much the same sense in which the Cabinet in this country is responsible to Parliament. Except in the three reserved Federal Departments of Defence, External Affairs, and Ecclesiastical Affairs, the Governor General and the Governors at the heads of the Federal Government and Provincial Governments, respectively, will be guided by the advice of their Ministers, so long as they are satisfied that to do so does not conflict with certain that to do so does not conflict with certain special responsibilities imposed on them in the Bill These cover a wide field and include such duties as the prevention of "grave menace to peace and tranquility," the safeguarding of minorities, and (in the case of the Governor-General) the safeguarding of financial stability and credit. Special provision is made to deal with the problem of Terrorism.

The grapes I pullified effect of the Act is to

The general political effect of the Act is to provide that in the Provinces and, with certain reservations, at the Federal Centre, there will be a system of "Parliamentary" government, except when circumstances call for the exercise of the overriding powers of the Governor General or the Governor

Provision is made that recruitment in the United Kingdom for the Indian Civil and the Police Services shall continue, and that Service rights shall be preserved. The discipline of the Police, and the independence of the Judiclary, are protected from the effects of political influences. fluences A safeguard is introduced against the

fiscal freedom of India being used deliberately to damage British trade with India. Burma is to be separated from India, and the Act provides for a new constitution for Burma on the general lines of that proposed

for India.

for india.

Provision is made for the transfer of the powers proposed to the Provinces before the establishment of the Federation, and for the changes consequentially necessary in the changes consequentially necessary in the Central Government during the transitional period. Powers are also provided for the assumption by the Governor General of all the powers of government in the event of a break-down in the Constitution.

a Lower House, composed of members in directly elected by the Provinces and representatives nominated by the States In all the of new Provinces of Sind and Orissa.)

## FAULTS & REMEDIES IN WIRELESS RECEIVERS

Time faults which may occur in a radio up operates satisfactorily, the fault is situated receiver may result in (1) complete cessation in the high-frequency part of the set—that is of sounds from the loudspeaker, (2) intermittent reception, (3) low volume and poor unless a fair knowledge of electricity and a selectivity, (4) distorted reproduction, or (5) reproduction marred by crackles and other possessed, it is not advisable or, indeed, possible interfering noises

## (1) CESSATION OF SOUNDS FROM LOUDSPEAKER

This does not necessarily mean complete failure of the receiver. The set itself may be in perfect order and the breakdown due to some external cause First make sure that the aerial and earth wires are properly connected to the sockets or terminals at the back of the receiver

Noxt, ascertain that the receiver is getting its supply of current whether this be drawn from batteries or the mains. In a battery set, the leads making the connections to the batteries are particularly liable to become corroded These should be scraped with a pocket-knife and a file may be used for final burnishing The corrosion is caused by the 'creeping' of the seld This can be retarded by Leeping the top of the accumulator clean and derived the smeather a little vessiling. and dry and by smearing a little vaseline round the bases of the terminals

With a mains receiver, make sure that the supply is "on" The particular circuit to which the set is connected may have fused The best chook is to try an electric lamp on the same outlet.

Secondly, see that the leads from the set are making contact inside the connector which is

making contact inside the connector which is plugged into the power point or lamp socket Proceeding to the set itself, see that the mains leads are properly joined to the switch, transformer or other component to which they go. Fuses may be found in circuit at this point and if they are blown, search should be made for the cause

It is essential while handling components or any internal part of the set to switch off the mains-otherwise a severe shock may be

ploked up

Most mains receivers have Illuminated tuning scales. As long as the lamp behind the dial lights up one can assume that the "low-tension" side of the receiver and at least a part of the mains transformer are satisfactory. The trouble, therefore, is likely to be in the "high tension" or high voltage section—that is, the section of the circuit associated with part of the mains transformer, the rectifier is, the section of the circuit associated with part of the mains transformer, the rectifier (which may be either a valve or a "metal" unit), the smoothing choke and condensers (the smoothing choke may be a winding on the magnet of the loud-speaker) and the leads to the anodes of the valves

Before examining these parts of the set, however, make certain that the loudspeaker is connected With sets fitted with reaction or a plak-ung simple test which facilitates location

a pick-up a simple test which facilitates location of a fault is available If the reaction or pick- trimmers should be adjusted

Unless a fair knowledge of electricity and a certain amount of testing equipment is possessed, it is not advisable or, indeed, possible to carry the testing of a receiver much further It cannot be overstressed that mains receivers are highly dangerous to any except the expert.

#### (2) INTERMITTENT RECEPTION

This is usually due to an intermittent connection in the aerial, earth, current supply or loudspeaker wires These should be examined loudspeaker wires as described above

The trouble may also be caused by a fault in the set itself. A badly soldered joint or fractured connection between components may have this result, although constant crackles are more likely to be the symptom in this case Valves, particularly mains types, are liable to intermittent trouble and sometimes by watching the glow of the heaters it is possible to discover which is faulty

Intermittent troubles are often introduced by components which become warm after a set is switched on. The resulting expansion fractures a wire or connection Transformers, chokes and resisters are the components to suspect of this

behaviour

When a pick-up is fitted, this can be used roughly to localise the source of the trouble If the breakdowns occur only during radio reception it is clear that the cause lies between the aerial input and the point to which the pick-up is connected—usually the grid of the detector valve—If the trouble occurs even while the pick-up is in use, it is located between the pick-up and the loudspeaker

#### (8) LOW VOLUME AND POOR SELECTIVITY

Low volume can be caused by a poor connection in any external lead associated with the receiver, and preliminary tests should be devoted to the serial, earth, current supply and loudspeaker wires

Low volume may also result from loss of efficiency in the loudspeaker or deterioration of the valves, particularly the output valve and, in mains sets, of the rectifier valve Loudspeaker and rectifier are best tested by

substituting new ones, other valves by measuring, with a milliammeter, the current passing in the anode circuits

If a set loses its volumes suddenly, this may be due to a run-down accumulator, or in mains sets, providing the external leads are satisfactory, a breakdown in a condenser or resister. This can be found only by systematic testing with meters

When, simultaneously with loss of volume, loss of selectivity becomes noticeable, the rimmers should be adjusted. But if the

receiver is a superhet, the trimmers and, in fact, all small adjustable "sorews" should not be touched They can only be set by a service engineer possessing elaborate equipment.

During the summer months it is natural for radio transmissions to become weaker

#### (4) DISTORTED REPRODUCTION

When this coincides with low volume the remarks made under (3) apply High pitched reproduction at normal volume, particularly if a grating sound is noticeable, is probably due to the loudspeaker being out of adjustment. If the speaker is a moving iron type the adjusting knob should be regulated. If it is a moving-coil the cone needs re-centering or the cap is obstructed To remedy either of these latter is a matter for the manufacturer

Harsh, metallic jarring noises at ordinary volume suggest that (a) the output valve is not obtaining sufficient current (in a battery set, due to a run down battery, in a mains set, to a failing rectifier), (b) that the output valve is not properly blassed, and (c) that the valve is

"dying"

Distortion at maximum volume is only to be expected—there is a natural limit to the undistorted volume every receiver can produce

#### (5) CRACKLES AND INTERFERING NOISES

These may be due to causes similar to those mentioned under (2) Nowadays, however, as often as not, such noises are due to interference from external electrical appliances from trams to vacuum cleaners and from dynamos to light switches

With a battery set, one can discover whether the cause is in the set or external by disconnecting the aerial and earth. If the trouble ceases, it is being picked up from outside With a mains set the noises may be introduced via the mains. In this case a cure may be effected by fitting a suppressor unit where the electricity mains enter the house. It may be necessary to fit additional units in neigh bours' houses (if possible) and also near to the receiver itself

Where the interference comes in as soon as the aerial is connected the remedy lies in the

installation of an anti-static aerial

Cases of interference are investigated by the Post Office upon request. The Post Office does not, however, take any practical measures to remedy the trouble

## Care and Maintenance of Batteries

To ensure long life, freedom from breakdowns, and efficient service, strict attention must be given to the following points —

(1) The battery must be properly charged and the charging current must be

carefully watched

(2) It must not be over-discharged the voltage should never be allowed to fall below 1 8 volts per cell.
(3) Short circuits between

between the plates. whether from

accumulation of sediment under the plates, must be avoided

The acid solution must be made up of pure sulphuric acid and distilled water, and its specific gravity must be right. The maximum specific gravity for a fully charged cell is about 1 27 to 1 30 The sulphurlo acid must be water-clear in colour and show no sediment on standing

(5) The plates must be kept covered with electrolyte and only pure water used to

replace evaporation

(6) Battery must not be left in discharged condition, and even if put away fully charged it should have a refresher charge periodically, say every three months

Sulphation can be cured by long, slow charge and discharge A good charging rate in this case is about one fifth of normal High charging rates cause gassing and heating and do not hasten the process The length of the charge will depend upon the decree of sulphation

## Radio in India

The listener in India is now well provided for as regards both programmes and suitable

receivers

The Indian State Broadcasting Service has made and is making great strides in the provision of a widespread service of programmes designed to appeal to every taste. At the same time the country has its own special trans missions broadcast on the short waves by the Broadcasting Corporation Daventry, England

To some extent short-wave reception depends 10 some extent snort-wave reception deponds on local conditions. In most parts of India, however, three B B C transmissions are receivable regularly. These take place daily at 830-940 a.m., 430-715 p.m., and 730-1030 p.m. (Indian Standard Time)

Where circumstances permit it is often possible to receive other BBC Empire transmissions during other hours of the day In India itself, the Indian State Broadcasting Service radiates programmes daily from

Delhi, Bombay and Calcutta In the words of the State Service, the programmes are intended to interest every one "from the coolle and jemadar, business man and mannequin to pedicurist and surgeon, judge, lawyer, olerk and priest"

Private broadcasts are radiated from Allahabad, Madras and Peshawar

Allahabad, Madras and Peshawar
As the BBO broadcasts are on the short
waves (between 16 and 50 metros) and the
Indian broadcasts are on the medium waves (200 to 500 metres) the best set for the Indian listener is one that will receive on all these wavelengths—that is, an "all wave" set. To receive the programmes well over long distances it is advisable to have a sensitive superheterodyne receiver. This type of set is fitted with automatic volume control which does with automatic volume control which does much to banish the annoyance of fading

programmes
All the best British and American and other makes of receiver are available from the principal stores in India Receivers for the short waves only are also obtainable and many of these are specially designed and built for use separator failure or under the most exacting climatic conditions.

# SPORTS RECORDS

## ATHLETICS-World's Records

				RUNNING				3
Event.	Time min scc			Holder		Nation.		When Made
100 yds	., - 95		F			USA	•	1930
220 yds 440 yds	$\frac{-201}{-461}$	• •		LA Locke Eastman	•	USA. US.A. US.A	_	$1926 \\ 1932$
880 yds. 1 mile	1 40 <sub>h</sub>		$\mathbf{B}$	Eastman Cunningham		USA USA	•	1934
2 miles	8 59\$		P	Nurmi		Finland		1934 1931
3 miles 4 miles	13 50 <del>1</del> 19 1		Ļ	Lehtinen Iso Hollo		Finland Finland		$1932 \\ 1933$
5 miles	24 61		P	Nurmi .		Finland		1924
10 miles 1 hour	50 15 11 m. 1648 yds		P P	Nurmi Nurmi		Finland Finland		$1928 \\ 1928$
2 hours	20 m, 952 yds		H	Green		Great Britain		1913
120 yds	. — 141		Ţ	HURDLES Beard		USA		1934
220 yds.	— 23		(C	Brookins		US.A.	:	1924
140 yds	52	• •	Ĵ	Paul A Gibson		USA USA.	•	$1934 \\ 1927$
_ •				WALKING			•	
Event.	Time h min sec			Holder		Nation		When Made
1 mile	- 6 22	••	Ç		•	Great Britain		1913
2 miles 3 miles	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	• •	J	E Larner	•	Great Britain Great Britain		1904 1883
4 miles	- 27 14	•	G	E Larner .		Great Britain		1905
5 miles 10 miles	- 35 10 1 14 30‡		F	W Raby J. Redman		Great Britain Great Britain		$1883 \\ 1934$
50 miles	7 41 47 <del>1</del> 8 m 438 yds		H G	H Whitlock		Great Britain Great Britain		1935
1 hour 2 hours	15 m. 147 yds		Ā			Italy		1905 1930
			F	FIELD EVENTS				
Even	£ ,		ance. in	Holder		Nation		When
High Jun	np	ft 6	9	W Marty		USA		Made 1935
Long Jur	op	26 51	81 7	J Owens C Nambu	••	USA.		$\frac{1935}{1932}$
Polo vau		14	5	. W. Graber	•	. Japan U.S.A		1035
Woight P	ut (16 lb )	57 225	1 10	J Torrance H Marty		. U.S.A. U.S.A.	_	$1934 \\ 1934$
Slinging t	the Weight (66 lb )	40	GA	M J M'Gra	th	us.a.	٠.	1911
Discus Ti Javelin T		$\begin{array}{c} 174 \\ 251 \end{array}$	$\frac{21}{61}$	Schroder M Jarvinen		. Germany Finland	•	1935 1934
			. <del>-</del>					

## Athletics-British Native Amateur Records

DUNNING

RUNNING				MUNDLES.			
Event.	Time.	Ílolder.	When	Event	Time	Holde <del>r</del>	When
220000	h m sec		Made		h m. sec		Made
100 yds	91	Ј С Неар	1932	120 yds	14 % sec	Lord Burghley	1930
220 yds	$21\frac{1}{2}$	W R Applegarth	1914	220 yds	24 to sec	Lord Burghley	1927
440 yds	48	G L Rampling		300 yds	361 sec.	O Groenings	1907
880 yds	- 1 53½	T Hampson		440 yds	63 <del>1</del> вео	L Facelli	1929
1 mile	- 4 71	J Lovelock,	1932				
2 miles	- 9 9 <del>1</del>	A. Shrubb	1904	}	1		
3 miles	- 14 178	A Shrubb	1903	<b>\</b>		r	
4 miles	- 10 237	A Shrubb	1904	{	w	ALKING.	
5 miles	- 24 33 i	A Shrubb	1904		• • • • • • • • • • • • • • • • • • • •		
10 miles	- 50 20	W G George		1 mile	- 6 26	G E Larner	1904
16 miles	1 20 4 7	F Appleby		2 miles	- 13 114	G E Larner	1904
20 miles	1 51 54	G Crossland		3 miles	- 20 251	G E Larner	1805
25 miles	2 29 291	H Green		4 miles	$-2714^{\circ}$	G E Larner	1905
Marathor		AI GIOCA	2020	5 miles	-35471	A H G Pope	1932
DIMINIMUL	)2 30 57 £	H W Payne	1929	10 miles	1 14 304	F. J Redman	1934
50 miles	6 13 58	E. W Lloyd		20 miles	2 46 10	G T Galloway	1934
1 horn 11		s.A. Shrubb		50 miles	7 44 471	H. H Whitlock	1935
1 4004 11	TE 1131 YOU	s.E. Harper		100 miles		T. E Hammond	1908
Z III.a zo	TI TOKO AM	our market	7440	Too Inno	101	z. z. zaminonu	7000

1342	SPORTS RE
Walking-Continu	ed When Made
Event Distance. Holder 1 hr 8 m. 474 yds A. H G	Pope 1932
2 hrs 15 m. 701 yds. R. Bridg	ge 1914 Illoway 1934 <i>I</i>
10 hrs 81 m 1237 yds E O	Horton 1914
24 hrs 131m.580 yds. T E He	ammond 1908 Fir
14 hrs 22 min 10 sec by A.	- 100 miles in J Newton (1928) Lor
London to Brighton (walking 6 sec by J H Ludlow (8	o) in 8 hrs 1 min Sept 1932), in
Event Distance. Holder 1 hr 8 m. 474 yds A. H G 2 hrs 15 m. 701 yds. R. Brids 3 hrs 21 m. 868 yds G T G 10 hrs 61 m 1237 yds E O 12 hrs 73 m 145 yds E O H 24 hrs 131 m. 580 yds, T E H NOTEWORTHY PERFORMANCES 14 hrs 22 min 10 sec by A London to Brighton (walking 6 sec by J H Ludlow ( 7 hrs. 53 min 5 sec by I (1935)	I W Whithook Lo
TRIVE CLEIS	·s !
Event ft in. Hold High Jump 6 5 B H	er Year Baker 1921 Fire 1928 Fires 1928
Erent H. Hold High Jump 6 8 B H Long Jump 26 1 B He Pole Vault 13 9 L Ba Hop, Step and Jump 50 9 W Po	mm 1928 Fir
Hop, Step	/ K'TE
and Jump 50 9 W Pe Hammer	, , , , , , , , , , , , , , , , , , , ,
Throw 178 11 F D Weight Put 47 81 R H	Howland 1932
Throw 178 11 F D Weight Put 47 81 R H Javelin Throw 222 9 S A- Discus Throw 147 — E Ps	Lay 1928   Inlus 1928
Aviation World speed record—423 76 m	Dh -F Agello Wo
(Italy), 1933	THE PARTY OF THE P
SCHNEIDER TROP. Year Nation. Pilot.	Sneed m n.h.
1913 France Prevost	47 75 BR
1914 Britain Pixton 1920 Italy Bologna	107 00 199
1921 Italy Briganti 1922 Britain Blard	111-00   19 145 70   19 186   177 38   19 232 57   19 rdl 246 49   19
1923 U.S.A. Rittenhou 1925 U.S.A. Doolittle	177 38   199 232 57   199
1925 U.S.A. Doolittle 1926 Italy De Barna 1937 Britain Webster	rdi 246 49 193
1927 Britain Webster 1928 Britain Waghorn 1931 Britain Boothmat	328-63 We
<ul> <li>Trophy won outright by</li> </ul>	340 08*   SN Britain.   191
Trans Diloi	Sneed m m h
1922 F L Barnard 1923 F T Courtney 1924 A. J Cobham 1925 F L Barnard 1926 H S Broad 1927 W L Hope 1928 W L Hope 1929 D F W Atcherley 1930 Miss W Brown 1931 E C T Edwards 1932 W L Hope 1932 W L Hope 1933 Capt G de Havilla 1934 F Lt. H M Schofie 1935 F Lt T Rose 1935 F Lt T Rose	Speed m p.h 124 150
1923 F 1 Courtney 1924 A. J Cobham .	106 6 140 5
1925 F L Barnard . 1926 H S Broad	140 5 B1
1927 W L Hope 1928 W L Hope	92 4 Ba
1924 A. J Cobham . 1925 F L Barnard . 1926 H S Broad 1927 W L Hope 1928 D F W Atcherley 1930 Miss W Brown 1931 F C T Edwards	7 150 3 Fe
1931 E C T Edwards 1932 W L Hope	117 8 L4 124 25
1933 Capt G de Havillar	nd 139 5 W
1934 F-Lt. H M. Schoffe 1935 F-Lt T Rose	7 105 5 150 3 102 7 117 8 124 25 130 5 134 16 176 28 Mi
(France)	
FIRST DISTANCE FLIGHT —1  yds.—O Wright (U.S.A  FIRST ENGLISH CHANNEL	905, 11 m. 211 H
FIRST ENGLISH CHANNEL L Blériot (France)	FLIGHT 1909
FIRST AIR MAIL —1929, Englanto Karachi)	nd-India (London H
ATLANTIO RECORDS — First I	Flown—1919, Sir
iand to Ireland)	ł
First East West Flight — and Fitzmaurice (Irelander Solo Flight.—1927, (U.S.A) (New York to First Woman Solo—1932,	1928, Hunefeld R. d to Labrador)
First Solo Flight.—1927, (U.S.A.) (New York to	Col. Lindbergh Paris) N
First Woman Solo -1932,	Miss A. Earhart.

Aviation—Continued.

Quickest Crossing —1932, Bennett Griffin and J Mattern (U.S.A.) (Newfoundland to Ireland), 11thours First Solo East West Flight and First Light Plane Crossing —J A. Mollison, Aug 18, 1932

rst woman to cross South Atlantic —Miss Jean Batten, Nov 13, 1935

NGEST FLIGHT (cross-country) —1933, New York to Rayack (Syria) 5,657 miles—non-stop)—M M Codos and Rossi (France) OKCEST DURATION FLIGHT (enclosed area)—

1931-90 hours, Bossoutrot and Rossi (France)

RET ENGLAND-AUSTRALIA -1919, Sir Ross and Sir Keith Smith (Great Smith Britain)

RET ENGLAND-AUSTRALIA AND BACK.—1926. Sir Alan Cobham

SIT AIRN CODNAM
RET WOMAN—ENGLAND-AUSTRALIA—1930,
MISS AMY JOHNSON (Great Britain)
GHEST DISTANCE REACHED—Nov 11 1935,
American stratosphere balloon taking off
near Rapid City, S Dakota, attained a
height of 74,000 ft.

## Bıllıards

ORLD RECORD BREAK .- 4,137, by W Lindrum, January, 1932 ORLD SNOOKER RECORD -114, by Joe Davis, 1933 RITISH CHAMPIONS UNDER EXISTING RULES

20 Smith. 1928 Davis , 21 Newman. 1929 Davis. Davis 22 Newman. 1930 23 No contest. J Davis. W Lindrun Smith. 1931 24 25 Ť Newman. Newman. 1932 1933 Lindrum. 26 Newman. Davis 1934 27 Davis Newman. 1935 ORLD'E CHAMPION 1934 J Davis.

NOOKER CHAMPION 31-1935 J Davis

Boxing (1935) BritishWorld's Weight Champion. Champion. y (8 st) Benny Lynch Benny Lynch (Scotland) Baltazar Sang-chili (Spain) Fred Miller antam Johnny King (8 st. 6 lb eather Nel Tarleton (9 st.) Jack (Kid) Berg Tony Canzo lght (9 st 9 lb) neri (U.S.A.) Barney Ross (U.S.A.) Marcel Thil èlter Pat Butler (10 st. 7 lb) iddle Jock McAvov (11 st 6 lb) (France) ght-Heavy (12 st. 7 lb ) John H Lewis Eddie Phillips (U.S.A.) eavy Jack Petersen J J Braddock (U.S.A.)

## Cricket

(First-class IGHEST INDIVIDUAL SCORE Matches) —452, D G Bradman, New South Wales v Queensland, at Sydney, 1929 30

Rev W Fellows, at practice, Christchurch, Oxford, 1856 UMBER OF CENTURIES -197, J B Hobbs

(Surrey) (Up to 1934)

#### Cricket—Continued

Two Hundreds in One Match.-6. Hobbs (Surrey)

BIGGEST SEQUENCE OF CENTURIES (First-class Maiches) —6, O B Fry (Sussex) 1001

MOST HUNDREDS IN A SEASON -16, Hobbs (Surrey), 1925.

FAST SCORING —189 in 90 minutes, Alletson (E), for Notts v Sussex at Brighton, 1911 HIGHEST AGGREGATY IN A SEASON -3518,

J Hayward in 1906

LONG PARTNERSHIPS

First Wicket.—555—Holmes and Sutcliffe for Yorkshire v Essex at Leyton, 1932 Second Wicket.—481—W. H. Ponsford and D. G. Bradman, Australia v England, at the Oval, 1934

Third Wicket —389—W H Ponsford and S J. McCabe, Australia v. M.C. at Lord's in 1934

Fourth Wicket -448-Abel and Hayward, Surrey v Yorkshire, at Oval, 1899

Fifth Wicket.—397—W Bardsley and C Kelleway, New South Wales v 8 Australia, at Sydney, 1920-21

Surth Wicket.—428—W W. Armstrong and M A. Noble, Australians v Sussex, at Brighton, 1902

Seventh Wicket -344-W Nownham and K. S. Ranjitsinhji, Sussex v. Essex, at Leyton, 1902

Eighth Wicket 433-V T Trumper and A Sims, Australians v Canterbury, a at Christchurch, 1913-14

Ninth Wicket —293—E A. O Druce and V P
Johnstone, Trinity Wanderers v Eastbourne, at Eastbourne, 1900

Tenth Wicket —307—A F Kippax and J E
H Hooker, New South Wales v Victoria,
at Molbourne, 1933.9

at Melbourne, 1928-9

#### BOWLING FEATE

ALL TEN WICKETS in one innings has been accomplished on 46 occasions. The best of these achievements was that of Verity, for Yorkshire v. Notts, at Leeds in 1932, whose analysis reads. O. 194, M. 16, R. 10, W. 10.

CONSECUTIVE WICKETS—First-class Matches—Four wickets with consecutive balls has been accomplished twenty one times most

been accomplished twenty-one times, most recently by R. Tyldesley for Lancashire v Derbyshire, at Derby, in 1929
All Matches—Six wickets in six balls, J Wisden, for England v XXII of the United States and Canada, at Rochester (U.S.A.), 1859

(U S.A.), 1859
BEST ANALYSIS—Nine wickets for 2 runs—
G Elliott, Victoria v Tasmania, at
Launceston, 1857-8
MOST WICKETS IN SEASON—304—Freeman,
Kent, in 1928 His average was 18-05
WICKET-KEEPING—12 wickets in a match—
Pooloy for Surrey against Sussex at the
Oval, 1868 (caught 8, stumped 4)
HIGHEST MATCH TOTAL,—1107—Victoria v
New South Wales, at Melbourne, 1926-7
CATCHES IN MATCH—10—Hammond, for Gloucestorshire v Surrey at Cheltenham, 1928.

cestorshire v Surrey at Cheltenham, 1928.

Lowest Match Total.—12—Oxford University v M C C and ground, at Oxford in 1877, and Northamptonshire v Gloucestershire at Gloucester, 1907

Highest Aggregate—1929, New South Wales v South Australia, Sydney, 1925 6

TEST MATCH RESULTS

England v Australia — First played in 1876 In England—England won 20, lost 15, drawn 27 In Australia—England won

drawn 27 In Australia—England won 32, lost 38, drawn 2
England v South Africa—First played in 1888 In England—England won 9, lost 0, drawn 7. In S Africa—England won 19, lost 11, drawn 8

THROWING CRICKET BALL.—140 yds 2 ft — R. Percival, on the Durham Sands Race-course, 1884

CHAMPION COUNTY—Yorkshire, 17 times, Surrey, 9, Notts, 8, Lanes 8; Middlesex and Kent, 4, Gloucestershire, 2, Derbyshire and Warwickshire, 1 Tres—Gloucestershire and Notts, in 1873, Notts and Lancashire, in 1879, Notts and Lancashire, in 1882 Triple Tie—Surrey, Lancashire and Notts—1889 See also text under CRICKET under CRICKET

## Cycling

## WORLD RECORDS

(Unpaced Standing Start.) Distance. Holder Time

28 sec V L Johnson 1933

56; sec L Michard 1931

2 min 2; sec F W Southall 1929

3 min. 35; sec F W Southall 1931
es F W. Southall, 1929 Time Yeari mile i mile i mile 2 miles 3-40 miles

5 min 31 sec 7 min 201 sec 9 min 12 sec. 3 miles 4 miles 5 miles 6 miles 11 min 14 seo 7 miles 12 min. 514 seo.

7 miles 12 min. 51; 800.
8 miles 14 min. 52; 800.
9 miles 16 min. 44; 800
10 miles 18 min 42; 800
20 miles 37 min 33; 800
30 miles 56 min. 32; 800
40 miles 1 hr 17 min 55 800 (1928)
Greatest Speed Ever Attanced on a Cycle — Leon
Vanderstrit in one hour rode 75 miles Vanderstrift in one hour rode 76 miles 504 yards at Montlhery, Paris, in Sept. 1928 He was motor cycle paced, but made a standing start Road Records—24 hours—H Opperman, in 1935, 466 miles Land's End to John o' Groat's—H. Opperman, 2 days 9 hours

in 1934

## Football

#### ASSOCIATION

A COP WINNERS (1934-5) —Sheffield Wed, Runners-up, W B Albion, (For F. A. Cup winners since 1900, see entry Association Cup in lext)

(1934-5) --- Arsenal CHAMPIONS LEAGUE

LEAGUE CHAMMIONS (1934-5)—Arsenal Runners up—Sunderland
INTERNATIONAL CHAMPIONS (1934-5) England and Scotland tied with 4 points each, Wales and Ireland with 2 points.

AMATEUR CUP (1934-5)—Bishop Auckland Runners up—Wimbledon
INTERNATIONAL CAP RECORDS—England—R. Crompton (Blackburn Rovers), 34, Scotland—A. L. Morton (Rangers), 33; Ireland—O. M. Stanfield (Belfast Distillery), 30, Wales—W Meredith (Manchester City and United), 51

RECORD GATES—136,259 Scotland v England at Hampden Park, Glasgow, 1933

League Record—77,532 Manchester City v Arsenal, Feb 23 1935

#### Football—Continued RUGBY UNION

INTERNATIONAL CHAMPIONS.

INTERNATIONAL CHAMPIONS.

England—1909 10, 1912-13-14, 1920 21, 1922 23 24, 1927 28, 1920 30, 1933 4

Scotland—1900-1, 1902 3 4, 1906-7, 1924-25, 1928 29, 1932 33

Wales—1901-2, 1904-5 1907 8 9, 1910-11, 1921-22, 1930 31, 1935 6

Jointly held—Ireland, Wales, 1905 6, England, Ireland, 1911-12, England, Scotland, Wales 1919-20, Scotland, Ireland, 1925-26, 1926 27, England, Ireland Wales, 1931 32, England, Ireland, Wales, 1931 32, England, Ireland, Wales, 1931 50, Championship was held for the seasons 1914 15 to 1918 19

RECORD NUMBER OF CAPS—G V Stephenson

RECORD NUMBER OF CAPS -G V Stephenson (Queen's University, Belfast), capped 42 times for Ireland

## Golf

#### BRITISH OPEN CHAMPIONS ADDO T II Morrior 1990 G Duncan.

1800 2 H. IRAIOL	1820 G Dunoun
1901 J Braid.	1921 J Hutchison
1902 A Herd.	1922 W Hagen
1903 H Vardon	1923 A. G. Havers
1904 J White	1924 W Hagen
1905 6 J Braid.	1925 J Barnes
1907 A. Massy	1926-7 Mr R T Jones
1908 J Braid	1928 9 W Hagen.
1909 J H Taylor	1930 Mr R. T Jones
1910 J Braid	1931 T D Armour
1911 H Vardon	1932 G Sarazen
1912 E Ray	1933 D Shute
1913 J H Taylor	1934 T H Cotton
1914 H. Vardon	1935 A. Perry
1914 D. Valuon	1000 21 10113
1915 19 Not Played	

#### BRITISH AMATEUR CHAMPIONS

1900 H H Hilton 1901 H H Hilton	1920 C J H Tolley 1921 W L Hunter
1902 C Hutchings	1922 E W Holderness
1903 R. Maxwell	1923 R. H Wethered.
1904 W J Travis.	1924 E W Holderness
1905 A. G Barry	1925 R. Harris
1906 J Robb	1926 J Sweetser
1907 J Ball	1927 Dr Tweddell
1908 E A Lassen.	1928 T P Perkins.
1909 R Maxwell.	1929 C J H Tolley
1910 J Ball	1930 R. T Jones.
1911 H H Hilton.	1931 E Martin-Smith.
1912 J Ball	1932 J de Forest.
1913 H H Hilton.	1933 Hon M. Scott
1914 J L C Jenkins.	
1915 19 Not Played.	1935 W L Little
1919 19 14001 19700	1000 11 23 2310010

#### WALKER CUP

#### (America v Great Britain-Amateurs)

1923 1924	America America America America	(6 5) (9 3)	1928 America (11-1) 1930 America (10 2) 1932 America (91-21) 1934 America (91-21)		
RYDER CUP					

#### (America n Great Britain-Professionals)

(44)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,
1926	Gt. Britain (131-11)1932	Gt. Britain	
1927	America (91-21)	(61	51)
1929	Gt Britain (7 5) 1933	Gt. Britain	
1931	America (9 3)	(6)	51)
	1035 U.S A. (8 2) 2	halved	

R. T Jones set up a record in 1930 by winning the British and American Open Championships and the British and American Amateur Championships

Gene Sarazen, the American, is the only pro-fessional who has won both Open Cham pionships in the same year (1932)

## Hockey

INTERNATIONAL CHAMPIONS (1934-5) England Scotland, Iroland and Wales tied.

Record score in International Match —11, by England against Wales at Ruthin, 1923-4, Wales scored twice Record aggregate— 14 (England 10, Wales 4), at Merton Abbey, 1924-25

## Indian Records

	Marathon	3
ì	5.000 Metres	1
ı	Shot Putt	4
ı	Discus	ī
ı	Running Broad Jump	2
ı	Hop, Step and Jump	4
	100 Metres	î
i	Running High Jump	Ĝ
	400 Metres	5
	110 Metres High Hurdles	ĭ
	800 Metres	i
	200 Metres Low Hurdles	2
	Pole Vault	í
	200 Metres	2
	Javelin	
	1,500 Metres	ļ
	400 Metres	4
	400 Metres Shuttle Relay	3
	1,600 Metres Medley Relay	3
	3,000 Metres Cycle	ē
	1,500 Metres Steeplechase	4
	10,000 Metres_	3
	5,000 Metres Walk	2
	1	

hrs 13 min 34 secs. 6 min 501 secs 2 ft 6 in 16 ft 3 in. 22 ft. 101 in 16 ft. 4 in 101 secs it. in. min 594 secs воза 8 2 ft. 01 in. 2 secs 70 ft. 11 in. min 28 secs 7 f secs min. 534 secs min 161 secs. min. 411 secs. 22 min. 22 secs. 88 min 41 secs.

#### WOMEN

100 Metres 33 Metres Hurdles 83 Metres Hurdles 84 Ibs ) 84 Ibs ) 85 Ibs ) 85 Ibs ) 86 Ibs ) 87 Ibs ) 88 Ibs ) 88 Ibs ) 89 Ibs )	12 fb secs 16 secs 13 ft. 81 in. 22 ft 61 in. 4 ft. 51 in. 64 ft. 3 in.
1,500 Metres Cycle	3 min 184 secs

## Lawn Tennis

DAVIS CUP RECORDS.

America-1900-2, 1913, 1920-26 (11 wins) Australia-1907-11, 1914, 1919 (7 wins) France-1927-32 (6 wins) British Isles—1903 6, 1912, 1933 5 (8 wins)

No matches were played in 1915 18

## WIMBLEDON CHAMPIONS-MEN

1934

### Lawn Tennis-Continued

WINDLEDON	CHAMPIONS-WOMEN
WATER DO A	CHAMILIOUS 11 OTICA

TI LINDER DO I CHA	THE TOTALD IN COURTS
1899-1000Mrs.Hillyard.	
1901 Mrs Sterry	1919-23 Mile Lenglen.
1902 Miss M E Robb	1924 Miss K McKane.
1903-4 Miss D K.	1925 Mile Lenglen.
Douglass.	1926 Mrs L A. God-
1905 Miss M Sutton.	freo
1906 Miss D K	1927-30 Miss H Wills.
Douglass	1931 Frl C Aussem
1907 Miss M Sutton.	1932 Mrs F S Moody
1908 Mrs Storry	(Helen Wills)
1909 Miss D Boothby	1933 Mrs F S Moody
1910-11 Mrs Lambert-	1934 Miss D E Round
Chambers	1935 Mrs. F S Moody
1912 Mrs. Larcombe	
1913-14 Mrs Lambert-	
Chambers	
OTHER POST	

## Motoring

WORLD SPEED RECORD -301 12 mph -Sir Malcolm Campbell (Great Britain), 1935.

#### MOTOR CYCLING

World Record —157 12 m.p h —E Henne in Sept. 1935 on the Frankfurt-Darmstad Motor Road, Germany.

#### INTERNATIONAL CLASS RECORDS (One mile solo)

Capacity		Machine	$m p J_1$	Date
not exceed				
250 c c	W Winkler	DKW	89 01	Dec
	(Germany)	248 0 0		1935
360 o o.	W Winkler		89 01	Dec
	(Germany)		•	1935
500 o c	P Tarufl		151 8	Nov
	(Italy)	500 c o	-	1935
750 o o	E Henno		152 866	Oct
•	(Germany)	744 c c		1934
1000 c c	E Henno	BMW	157 12	Sept
100000	(Germany)			1935
	(One male	sidecar or	dfits)	

(One mile, sidecar outfits) 350 co. Melichar Sunbeam 90 66 Oct 1930 600 c c E Henne B M.W (Germany) 1000 c c E Henne B.M W B M.W 113 60 April 1932 128 847 Oct

(Germany) MOTOR BOAT RACING

World Speed Record —128 98 m p h —Gar Wood on Michigan Lake, U S.A. (U S.A., 1934)

OUT BOARD MOTOR BOAT RECORD -70 196 mph -G Coleman, Jun, (USA) at Miami, 1935

## Rowing

Oxford AND CAMBRIDGE BOAT RACE WINNERS (Oxford 40 wins, Cambridge 46, 1 dead heat). Oxford -1829, 1842, 1849 (b), 1852, 1854, 1857, 1859, 1861-9, 1875, 1878, 1880-83, 1885, 1890-8, 1901, 1905, 1909-13, 1923 Cambridge -1836-41, 1845-46, 1849 (a), 1856, 1858, 1860, 1870-4, 1876, 1879, 1884, 1886, 1887-9, 1899, 1900, 1902-4, 1906-8, 1914, 1920 22, 1924-35

Notes -1846-Outriggers first used 1849 (b) Won on a foul 1857-Keelless boats first used 1847-Sliding seats first used 1911

used 1873—Sliding seats first used 1911 Record time for race, 18 m 29 sec (Oxford), 1912—First race void, both boats sank.
Oxford stroke, R C Bourne, the only
stroke to win four races. 1915-19—No race

## Swimming

CHANNEL RECORDS—First swum—1875 by Capt. M Webb (Dover to Calais), in 21 h. 45 m. First woman—1926—Miss G Ederle (U.S.A.), 14 h 34 m. Record—1926—G Michel (France), 11 h. 5 m. (Grisnez to Dover)

World Records									
Distance.	Time	Holder	Nation						
	min sec								
100 yds	0 51	J Weissmuller	USA						
150 yds	1 25	W Laufer	US.A.						
220 yds	2 9	J. Weissmuller	USA						
300 yds.	3 64	J. R. Gilhula	US.A.						
440 yds	4 498	J R Gilhula	U.S A.						
880 7ds.	10 15	J Medica	U S.A						
1000 yds	11 37 }	J Medica	US.A.						
1 mile	21 6	Arne Borg	Sweden						

## The Turf

THE DERBY—Record time for the Derby (2 min 34 sec) is shared by Lord Derby's Hyperion (1933) and the Maharajah of Rajpipla's Windsor Lad (1931)

CLASSICS —Only one horse has ever won four of the five classics. This was Mr. R. S.

of the five classics This was Mr R S
Slevier's filly, Sceptre, who won the One
Thousand Gulneas, Two Thousand Gulneas,
the Oaks and the St Leger in 1902
JOCKEYS' DERBY RECORD —Stophen Donoghue
who rode the winner six times They were
Pommern ("War Derby" at Newmarket,
1915), Gay Crusader ("War Derby," 1917),
Humorist (1921), Captain Cuttle (1922),
Papyrus (1923) and Manna (1925)
RECORD TIMES —6 furlongs—54g see (Epsom)
6 furlongs—1 min 61 see (Brighton)
7 furlongs—1 min 20 see (Hurst Park)
1 mile—1 min 324 see (Brighton) 11
miles—2 min. 04 see (York) 11 miles—
2 min 204 see (Dorby, Leicester) 2
miles—3 min 15 see (Salisbury)
RECORD STAKE WINNINGS (British) —257,455,
by Isinglass in 1893

by Isinglass in 1893 Record Field (for two-year-old race) —43, at

Newmarket, 1915
RECORD PRICE (for horse) —280,000, by Sir H
Mallaby Decley for Call Boy, the Derby winner of 1927

(For yearling)—17,000 guineas by the Aga Khan for a colt by Hurry-On—Eourie, bred at the National Stud (never won a race)

Record Price at Public Auction —47,000
guineas for the late Sir John Rutherford's

stallion Solario, at the Newmarket Second July Sales, 1932 Lord Glanely, acting for a syndicate of British breeders, was the purchaser

JOCKEY'S WINNING RECORD —G 259 winners, in 1933 Richards.

## Yachting

THE AMERICA'S CUP—First won by America in 1851 and held since by USA In 1899 Columbia beat Shamrock II, in 1901 Columbia beat Shamrock III; in 1903 Retiance beat Shamrock III; in 1920 Resolute beat Shamrock IV in 1930 Resolute beat Shamrock III; in 1920
Resolute beat Shamrock IV in 1930
Enterprise beat Shamrock V, and in 1934
Rainbow beat Endearour
TRANS-ATLANTIC RACE—(1931)—Dorade (O
J Stephens, USA), 15 days from Rhode
Island to Plymouth
FASTNET CUP (COWES)—(1931)—
Dorade (U.SA)

## POSTAL INFORMATION

INDIAN POST AND TELEGRAPH RATES Inland Rates

Post Cards -Single, 2 anna, Double, 12 anna.

Letters —Not exceeding 1 tola, one anna Exceeding 1 tola, but not exceeding 2‡ tolas, 1‡ annas For every additional 2‡ tolas or part of that weight, 1‡ annas

Books and Pattern Packets —For the first 5

tolas or fraction thereof, annas For every additional 5 tolas or fraction thereof, in excess

of 5 tolas, 1 annas

Registered Newspapers (Prepayment compulsory)—Not exceeding 8 tolas, 1 anna. Exceeding 8 tolas, but not exceeding 20 tolas, 1 anna. For every additional 20 tolas or part

of that weight, 1 anna.

Parcels—(a) Parcels not exceeding 440 tolas in weight -

Not		Not	
over	Postage	over	Postage
Tolas	Rs As	Tolas	Rs As
20	0 2	240	18
40	0 4	280	1 12
80	0 8	320	20
120	0 12	360	24
160	1 0	400	28
200	14	440	2 12
(b) Par	rcels exceeding	: 440 tolas i	n weight —
Not		Not	-
over	Postage	over	Postage
Tolas	Rs. As.	Tolas	Ra As

680 480 720 520 760 560 600 12 640

Registration Fee -In addition to the postage, A fee of three annas will be charged for the registration of any postal article. Parcels weighing over 440 tolas must be registered.

Insurance Fees—In addition to the postage and the fee for registration, the following further fees are charged for Insurance—

Annas 100 Value insured does not exceed Rs 3 Value insured does not exceed Rs 150
Value insured does not exceed Rs 200
For every additional Rs. 100 or fraction
thereof over Rs 200 and up to Rs 1000 5 For every additional Rs 100 or fraction

thereof over Rs. 1000 1

V P Charges —In addition to the postage a
fee calculated according to the schedule below on the amount specified for remittance to the sender

Not exceeding Rs 10, 2 annas Exceeding s 10, but not exceeding Rs 25, 4 annas Annas 4 for each complete sum of Rs 25, and 4 annas for the remainder, provided that if the remainder does not exceed Rs. 10, the charge for it shall be only 2 annas

#### INLAND MONEY ORDER FEES (Maximum amount, Rs 600)

Annas On any sum not exceeding Rs 10 On any sum exceeding Rs. 10 and not exceeding Rs 25 On any sum exceeding Rs 25 for each complete sum of Rs 25, and 4 as charged in respect of for the remainder, provided that, if the re by a village postman.

mainder does not exceed Rs 10, the charge for it shall be only 2 as

#### TELEGRAPHIC MONEY ORDER FEES

The amount for which a single telegraphic money order may be issued must not exceed Rs 000 and must not include fraction of a rupee

The fee for the issue of a T M O is the same as the fee for an ordinary Money Order plus a telegraph charge calculated at the rates for a congraph charge calculated at the rates for inland telegrams for the actual number of words used in the telegram advising the remittance, according to whether an "Express" or "Ordinary" Message

#### FOREIGN POSTAGE RATES

Post Cards	Annas
International Post Card, each	2
International Reply Post Card, each	4
Letters	
For United Kingdom and all British	
Possessions and Egypt, including	
Sudan, not exceeding 1 oz	21
- 17117 - 7	

Every additional oz or part 2 For any other part of the world—not exceeding 1 oz
Every additional oz or part

FOREIGN PARCEL RATES For Great Britain and N Ireland Direct in connection with the British Post Office via Gibraltar

Via Gibraltar Overland Rs as Rs as Not over 3 lbs. 1 8 1 13 6 12 1 2 3 6 11 3 15 6 ,, 2õ 3 0

Parcels exceeding 11 lbs, but not exceeding 50 lbs., may also be forwarded from Bombay through the medium of P & O S N Co, at 12 annas per pound or fraction of a pound And the limit of value is £50

#### CHARGES FOR INLAND TELEGRAMS

For delivery in India Express Ordinary Rs as p Rs as p First 8 words or less 7 0 word 0 2 0 0 1 0
For delivery in Lhasa, Tibet
Express Ordinary Each additional word Rs as p Rs as p 8 0 First 12 words or less 0 12 Each additional word 0 Ò For delivery in Ceylon Ordinary Express Rs as p Rs as p

First 12 words or less Each additional word 3 The address is charged for

Note 1 —The address is charged for Private Telegrams to Kabul, Jalalabad, Kandahar and Torkhan in Afghanistan is three annas per word including the address These telegrams are classed "Express" Press telegrams are not accepted

Note 2 —In addition to the charges on telegrams shown above, a fee of one anna is charged in respect of each telegram accepted

#### FOREIGN TELEGRAMS Per Word (From India or Burma) Australia, via Madras Urgent. Ordinary Deferred DLT. Rs as Rs as Rs as Rs as 12 R 4 7 Ð Gt Britain and Northern Ireland, via Moulmein. Urgent Ordinary Deferred DLT Rs as Rs. as Rs. as Rs as O 7 1 1 14 Honkong, via Madras DLT Deferred Urgent Ordinary Rs as Rs as Rs as Rs as 12 O 11 Japan, via Madras Urgent Ordinary Deferred DLT Rs. ns Rs as Rs as Rs as. 0 12 South Africa, via Zanzibar Ordinary DLT. Deferred Urgent Rs as Rs. 08 Rs as. Rs as. 15 0 154 10+ 3 14 1

Indian Internal Air Services (Inland Articles) Inland articles, both registered and un-registered (but not insured articles or parcels), are accepted for transmission by air between any air stations on the Indian internal air services, Gwadur and Bahrein, subject to the existing conditions applicable to inland articles No superscription regarding the route is necessary on inland articles. A blue air mall label (obtainable free at the post office) should be affixed to the article on the left hand top corner of the address side. The air fees on The air fees on ow The prepaysuch articles are as shown below ment of Air Fce is compulsory.

AIR MAIL SERVICES

For a post card For a letter or packet-Up to 1 tola Over 1 tola but not over 1 tola anna annas Every additional tola or fraction of a tola ., For a money order (irrespective of the amount) 1

The above Air Fees are payable on Air Mail articles in addition to ordinary postage, and the Registration Fee in the case of a registered article, and in the case of a Money Order, in addition to the money order commission.

#### SINGAPORE-CROYDON AIR SERVICE

The Air Fee per article which is provisionally fixed is 4 annas for Iraq, Palestine and Egypt, and 6 annas for any country in Europe includ-ing England, for every half-ounce or part of that weight.

Air Mail correspondence for countries in the East, viz, Slam, Malay States and Straits Sottlements, as well as for countries served from the airport of Singapore, viz, the Dutch East Indies, Sarawak, the Philippine Islands and Japan, is accepted for despatch by air from any acrodrome on Indian Internal Air Services maintaining connection with the Croydon-Singapore Service

AIR MAIL PARCELS Air Mail parcels for despatch by air from Karachi are accepted at such post offices in India as accept foreign parcels for despatch for any post office in Great Britain and Northern Ireland Air Mail parcels for any other country or inland parcels for delivery in India are not accepted.

Rsas 2 For the first half-pound For every additional half-pound or fraction thereof up to a weight not exceeding 11 lbs 1 14 For every additional half-pound

or fraction thereof above 11 lbs up to a maximum of 20 lbs

Insurance is not available Each parcel must bear on the left-hand top corner of the address side a blue Air Mail label obtainable free of charge at any post office, and must be clearly and conspicuously superscribed in ink above or below the blue label with the words "Karachi-Croydon," as parcels are not carried by Indian Internal Air Services

## Indian Interest Table.

9 pics

From 2 to 12 per cent on Rs 100 Calculated for 1 Year, 1 Month, 1 Week and 1 Day (365 days to a year)

PER CENT	1 DAY	1 Week	1 Month	1 Year.
223344556677888990011112	Rs as p d p 0 0 1 052 0 0 1 315 0 0 1 578 0 0 1 578 0 0 1 578 0 0 2 104 0 0 2 630 0 0 2 630 0 0 2 893 0 0 3 156 0 0 0 3 419 0 0 3 682 0 0 3 682 0 0 3 945 0 0 4 471 0 0 0 4 734 0 0 4 997 0 0 0 5 523 0 0 5 786 0 0 0 6 312	Rs as p d p 0 0 7 384 0 0 9 230 0 1 1 076 0 1 3 0 1 5 0 1 10 0 1 10 0 1 10 0 2 3 0 0 2 5 7 0 2 9 0 2 10 0 3 2 0 0 3 4 6 0 3 8	Rs. as p 0 2 8 0 3 4 0 4 8 0 5 4 0 6 8 0 7 4 0 8 0 0 7 4 0 8 0 0 10 0 0 10 0 0 11 0 0 12 0 0 12 0 0 12 0 0 12 0 0 14 0 0 14 0 0 15 4 0 15 0	Rs as p 0 2 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

# USEFUL TABLES. SCIENTIFIC DATA, Etc.

## Chemical Symbols.

		-	
Element.	Symbol.	Element.	Symbol.
Aluminium	Al	Molybdenum	Mo
Antimony	Sp	Neodymium Neop	Nd.
Argon	A	Neon Nickel	Ne
Arsenio	As De	Nickel	Ni
Barium	Ba.	Nitrogen	N
Bismuth	Bi	Osmium	Os
Boron	В	Oxygen	0
Bromine	Br	Palladium	Pd
Cadmium	Cd.	Phosphorus	P
Caesium	Сs	Platinum	Pt.
Calcium	Ca	Potassium	K
Carbon	a	Preseodymium	Pr
Cerium	Ce	Radium	Ra.
Chlorine	Cl.	Rhodium	Rh
Chromium	Cr	Rubidium	Rb
Cobalt	Co	Ruthenium	Ru
Columbium	СР	Samarlum	Sa
Copper	Ca.	Scandium	Sc.
Dysprosium	Dy	Selenium	Se
Erbium	Er	Silicon	Si
Europium	Eu	Silver	Ag
Fluorine	F	Sodium	Na.
Gadolinium	Gď.	Strontium	8r
Gallium	Ga	Sulphur	ន
Germanium	Ge	Tantalum	Ta
Glucinum	Gl	Tellurium	$\mathbf{Te}$
Gold	Aπ.	Terbium	$\mathbf{T}\mathbf{b}$
Helium	He	Thallium	IT
Hydrogen	Ħ	Thorium	Th
Indium	In	Thulium	$\mathbf{Tm}$
Iodine	1	Tin	Sn.
Iridium	Ir	Titanium	Ti
Iron	Fe	Tungsten	w
Krypton	Kr	Uranium	ប
Lanthanum	La	Vanadium	v
Lead	Pb	Xenon	Xe
Lithium	Li	Ytterbium	Yb
Magnesium	Mg	Yttrium	Υt.
Manganese	Mn.	Zino	Zn
Mercury	Hg	Zirconium	Zr

## Principal Moneys of the World.

The following list gives the values in British currency of the legal standard coins in the countries named at gold standard rates The value of paper currency in most countries of the world is much below that of the legal standard coins and fluctuates widely

#### MONEYS OF FOREIGN NATIONS

Note -Gold Standard suspended in U.K. on

	Note.—Gold Sta Sept 21, 1931 I before that date	indard suspended Par Value is bas	ed	n U	K on rates
.	Deloie miss date	35		77	ar
Ì	Country	Monetary Unit	£	Val	
Ы	Argentina	Рево	0	1	81
١.	Austria	Schilling	_	-	6 939
١	Belgium	Belga of 5 Franc	e A		6 8 5 8
- (	Brazil	Milreis	-		5 899
ı	Chile	Peso			6
١	China	Dollar	107	arie	with
٠ [	OHILLS.	(72 Taels = 100		rice	
١		Dollars)			silver
- !	Czechoslovakia	Crown			1 22
١.	Denmark	Krone		1	11
.	Egypt	Pound	1	Ô	61
.	France	Franc	-	٠	1 932
	Germany	Reichsmark			11 748
	Greece	Drachma			0 64
١	Hungary	Pengö			8 62
'	Italy	Lira			26
١.	Japan	Yen		2	01
i I	Mexico	Peso		2	01
ι	Netherlands	Florin or Gulden	ı	1	7 824
ı	Norway	Krone		1	11
١.	Peru	Sol		1	11
	Poland	Zloty			5 5
	Portugal	Escudo			21
,	Rumania	Len			0 3
,	Spain	Peseta.			9 516
	Sweden	Krona		1	11
9	Switzerland	Franc			9 516
)	Turkey	Lira of 100			
t.	Ì	piastres		18	0
1	United States	Dollar		4	1 32
r	Yugoslavia	Dinar .			09

					-		,		, _		4		1949
Ro	man	N	umerals	5.			10.35	EAS	URE			ACITY.	
	-	1 !	ZZ		20		10 C	fillillit  cntili	res	•		Contilltra	•
		2	ZZZ					ecilit		***		Decilitre	
ı <b>I.</b>	_	3	1	-	30	i i	10 L		i Ca	_		sitre Ockalitre	
	_	- 1	$x_{\Gamma}$	_	40	1		okalit	POT	***	1 1	iectolitre	
7 or IIII	***	4	Ъ	<b>`</b>	50	1	10 H	ectoli	tres		1 17	iiolitre	,
•	-	5	$\mathbf{r}\mathbf{z}$	16.00	60	1	1 L			1444		pints.	
I.	-	G	PZZ	-	70	1					-•	p.n.co.	
$\mathbf{T}$	-	7	$\Gamma X X X$	-	80	1		1	righ:	FUL	77.4.00		
u.	-	8	XC	-	90	11	Kilogra	mmo	CC III	v)			
<b>x.</b>		9	σ.	-	100	li	Hectoli	tro	(1231)	0)	- 96	204 Lb 2 Imperie	.1 0-1
5.	_	10	co	_	200		Pood				- 30	- imperi	ai Gai
XI.	-	11	cca			1	Ton (22	40 lb	)		69	2 22 Pood	a f
ZII		12		_	300	lτ	Inited St	ates (	รืกกิด	מי	n	202 Tmm	and all chart
		. 1	CCCC or CD	100	400	Įб	United	State	s Gal	llons	5	Imparial	Gal
ZIII	***	13	$\mathbf{D}$	-	500	į I	wenne r	)I) no:	000 I	: eoli	) <b>—</b> 22	204 Lb	
XIV.	\$500°	14	Da	-	600		Metre				<b>-</b> 3	Feet 31	Inches
XV.	-	15	DCC	-	700		Kilomet Verst	tro			<b></b> 0	621 Mile	
XVI	-	16	DCCC	-	800						- 0	663 Mile	
XVII	947	17	CML.	-	900	1 4	Dessiati Sageno	пе			= 2	7 Acres.	_
XVIII	_	18	M.	-	1000	1	Cuscuo				- Y	Feet	
XIX		19	yıyı	_	2000	1	Oz (Av	oir)	-	437	5 Gr	ากไทอ	
AIA		10 1	1014	_	2000	1	$\mathbf{p}_{\mathbf{o}}$		-	28	35 G	mmmes.	
						1	Lb (Av	oir)	-	10	Oz		
The	Wat	ric	Systen	<b>1</b>	of	}	Do		_	70	00 G:	rains	
			•			١.	Do Gramme		124	453	59 G	rammes	
Weig	hts :	and	i Meası	ire	S.	1	Do	•	959			04 Lb	
110-5						l	Do		200		.0352	7 07	
20	PARTIT	TD 0	F LENGTH			1	Fl Oz.		-	15	4323	48 Grain	S.
							Do.		_	70	396 (	∪c. Cub In.	
10 Milli		~		_		1	Pint		-	567	919 (	Cuo In.	•
10 Cent				0.		į.	Do		-		5679	2 Litre	
10 Deck		-				!	Dο		-		0200.	57 Oub 1	F¥.
10 Metr		-			- 1		Do		-	34	859 (	Cub In	- •
10 Deka					I		D <sub>0</sub>		-	20	Oz		
10 Hect			1 Kilometre		- 1	1	Gallon				1604	6 Cub F	t.
10 Kilor		201	1 Myriamet		_		Do Do		-	277	274 (	dub. In	
One Mei	tro = 1	004	yards <b>– 3</b> 9 31	1110	ches.		Do		-	10	537 I	itres	_
					{	1	Cc.		_	10	ሀይነባሳ መስ ዕ	distilled	1 water
ME	ASURI	E OF	SURFACE.		- 1		Do		_		282 E	270734 C	up In.
10 Centi	ares	_	1 Declare		- }		Do.		•		00176	Pint	8
10 Deck		_		me	etres)		Do		-		0352	FI Oz	
10 Ares		_	1 DeLare		,	1 .	Litre		_		03521	l6 Cuh 🖪	īt.
10 Deka	res	-	1 Hectare		- 1		Do Do		_		22009	o Gallon	ı
100 Hects		_		otre	, [		Do		-	61	027 C	ub In.	
			es, 1 rood, 35			1 (	Cub In.		_		761 F		
			, ,	•			Do		_		386 C	c Litre.	
% e-17		~ ^			- 1		Do		=		577 E	l Oz	
		IP 01	F WEIGHT.		1		$\mathbf{Do}$		_	i	02885	Pint	
10 Millig		-	1 Contigram		- 1	1 (	Cub Ft.		- 2	8315 :	3 Co		
10 Centi		-	1 Decigram.		1		Do		-	28 3	3153	Litres.	
10 Decig		<b>1951</b>	1 Gram		1		Do		-	6 2	2321 (	Gallons.	
10 Gram		274	1 DeLagram		1		Do Do			997 1	[ 364	Fl Oz	
10 Deka	~	T:=1	1 Hectogran	a.	1	ጥላ		Tnob.	•= va +-	49 8	5569 1	Pints	
10 Hecte	-	-	1 Kilogram.		1		Do	THOM	:3 €0 :3 €0	vieri.	es mu	ultiply by	
10 Kilog		100	1 Myriagran	3	- (		Do	Kilog	men.	75 TO	Thepe	es do.	-3937
1 Kilog		-	2 lb 31 oz.		- }			Litre	to to	Gกมก	υuπα		2 2046
1 Poun	d Avoir	*	4535 Kilogs		1		Do	Gallo	ns to	Litr	68	do do 4	22 1 548
												uo s	7 940

# Table of Income or Expenditure.

Per Year	Per Month.	Per Week.	Per Day
Rupees	R a. p	R a p	R a. p
10 20 30 40 50 60 70 80 100 1120 120 120 120 120 120 1	0 13 4 8 0 8 8 0 4 0 8 8 0 4 0 8 8 0 4 0 8 8 0 4 0 8 8 0 0 0 0	12545667890110123456278901101235688000115258114148114470369110123456667890011111111111111111111111111111111111	00000000000000000000000000000000000000

Comparison of Centigrade and Fahrenheit Thermometer Scales

ı						
١	Centi- grade.	Fahren- heit.	Centi grade.	Pahren- helt.	Centi-	Fahren helt
ŀ	-90°	-130°	40°	104°	170°	338°
ì	85°	121•	ʰ	ĩĩ3°	175°	347*
I	8ŏ•	112°	50*	122°	180°	356*
I	75*	103°	55*	131°	185°	365-
ļ	70°	94°	60°	140*	190°	374°
١	65°	85°	65°	149°	195°	383*
Į	60*	76*	70°	158°	200°	392°
ı	55°	67°	75°	167°	205°	401°
١	50°	58°	80°	176°	210°	410°
	45°	49°	85°	185°	215°	419°
	40°	40°	90*	194°	220°	428°
Į	35°	81°	95°	203*	225°	437*
Ì	80*	22°	100°	212°	230°	446*
1	25°	13*	105°	221°	235°	455°
	20°	4.	110°	230°	240°	464*
Ì	15°	+ 5°	115°	239°	245	473°
	10°	14°	120°	248°	250°	482*
Į	- 5°	23°	125°	257°	255°	491°
ı	<u>0</u> •	32°	130°	266°	260°	500°
i	+ 5°	41*	135°	275°	265°	509°
	10°	50°	140°	284°	270°	518°
	15°	<b>ĕ</b> 9°	145°	203°	275°	527°
	20°	68*	150°	302°	280°	536°
	25°	77*	155°	311*	285°	545
	30°	86*	160°	320°	290°	554°
	35°	95°	165°	329°	295°	<b>56</b> 3°
	_					

To convert from one scale to the other  $(^{\circ}F - 32) \times 5$   $^{\circ}O \times 9 + 32 - ^{\circ}F$ .

Table of the Corresponding Heights of the Barometer in Millimetres and English

## Inches.

Milli metres.	English Inches	Milli metres.	English Inches.	Milli- metres,	English Inches
720 721 722 723 724 725 726 727 729 730 731 733 734 735 737	28 347 28 386 28 425 28 265 28 543 28 543 28 543 28 662 28 740 28 780 28 819 28 819 28 8987 28 937 28 9376	739 7412 7443 7445 7445 7446 7448 7552 7553 7553	29 095 29 134 29 174 29 274 29 252 29 293 29 370 29 419 29 449 29 528 29 528 29 606 29 645 29 624	758 759 7601 762 7634 765 766 767 768 7701 7773 7774	29 843 29 843 29 982 29 982 29 982 20 900 30 079 30 118 30 157 30 236 30 236 30 375 30 375 30 433 30 433 30 472
738	29 016 29-055	756 757	29 764 29 803	775	00 012

To the nearest pie

# Weight and Volume of Gases.

	Welshte				Volume.			
	3	Per Cubio Irtre in Elica	Per Cable Foot in Pounds	ta Et	Per ilo. Cab tres	P.	re rand Oub. eck	
Air	1	29318	0 08073	0	773	12	385	
Nitrogon	1	25616	0 07845	0	796	12	763	
Oxygen	1	-4298	0 08926	0	699	11	203	
Hydrogen	0	08961	0 00559	11	160	178	83	
Carbon								
dloxide	1	9006	0 12344	. 0	508	8	147	
" monoxide	1	2515	0 07817	0	500	12	800	
" vapour	1	0727	0 06696	0	932	14	930	
arcong								
Vapour	0	8047	0 05022	1	242	19	912	
Sulphurous								
Acid	2	8605	0 1787	0	349	5	596	
Ethylene	1	2519	0.07814	0	799	12	979	
Methano	0	7155	0 04466	1	397	22	391	
Acetylene	1	1900	0.07428	. 0	840	13	456	
Benzol	3	3333	0 208	0	303	4	808	
Ethane	1	3415	0 08565	0	746	11	950	

## Thermal Units.

The British Thermal Unit is the amount of heat required to raise 1 lb of pure water 1°F, or from 39 1°F to 40 1°F.

The large Caloric (French Unit) is the amount of heat required to raise 1 kilogram of water through 1°C

The Small Calorie (Scientific Unit) is the amount of heat required to raise I gramme of water from 0°C to 1°C.

British Thermal Unit (B Th U.)	Large Calorie (Ca )	Small Calorie (Ca.)	Pound Centi- grade Unit (Lb C U.)	Foot- pounds	
1	0 252	252	0 555	778	
3 9682	1	1000	2 2046	3080	
0-003968	0.001	1	0 002046	3 08	
1 8	0 4536	453 6	1	1397	

# Table of Specific Gravities of Miscellaneous Substances.

(Distilled Wale	er taken as 1)	
Absolute alcohol 0 795	Ico	0 918
Brass, cast 7 820	Limestone	
sheet 8390	Marble .	2 700
Brick 8 390 Brick 2-000	Milk .	1.031
Bronze, statuary 8 950	Millstone	2480
" cannon 8 460	Nitric acid .	1 500
Coal, Scotch 1 300	Olive oil	0 915
Norreagtle 1 270	Proof spirit	0.920
Ether, sulphuric 0 715	Sandstone	2500
Glass, crown . 2 520	Sea water .	1 023
,, flint 3 000	Steel	7 830
Granite 2 700	Sulphuric acid	1 840
Hydrochloric	Tin	7 290
ncid - 1 200		

## Foreign Time-Table.

1		, I C I	5**			LUDIC	••
1	Treaten	o'cle	et: noc	on, Gr	ากหา	ich Mean	Time
1.	a compa	mod '	cith t	be Tit	ne ir	the fol	lowing
1.	laces —	100	.,,,,,	T 200	ai n	Standar	70.11118
1 *							
)	PLAC	منتا		Tim	.e	National	
}				h m.		h m.	
	delaide	• •		9 14	p.m.	. 9.30	
14	Athens		• •	1 35	• • •	2 00	
12	Auckland			11 39		11.30	**
11	3erlin	• •	• •	12 54	"	10	"
	Sombay			4 51	"	5 30	"
17	Brisbane		- ::	10 12	"	100	**
	Suenos A		••		a.m.		a.m
16	alcutta	3163	•		p.m.		е.щ
	ape Tow		• •	1 14			
		ш	• •		"_	2 0 6 0	pm
15	hicago	•	• •	0 10	a.m.	οğ	$\mathbf{a}$ .m
15	onstanti	nobie	•	1 20	p.m.	2 0 1 0	рm.
ļŲ	opennag	en	• •	12.50	**	10	**
1 -	eningrac	L	• •	21	77	21	"
	Indras	• •	• •	5 21	,,	5.30	**
13	Jadrid	• •	• •	11 45	a.m		noon
	falta	••	• •	12 58	p.m.	. 10	pm.
I	felbourn	8		9 40	,,	10 0	"
17	Iontreal			76	a.m.	70	a.m.
l a	loscow	•	• •	2 30	p.m. a.m.	21	pm.
1	Jew Orle	ลกร		60	a.m.	60	a.m.
15	Yew Orle	*	• • •	7 <b>4</b>		Ž Ŏ	
١ī	anama	~	•••	$6\hat{4}2$	**	7 ŏ	"
Î	aris	••	•	12 9	ď.m.	12	77
Ιŧ	cking	• •	•	7 46	_	- 1ã o	noon
Ιê	erth, W.	inet	-0110	7 43	**	80	p.m.
١'n	uebec	Aust	Tana		<i>"</i>		**
	do de Ja	!			a.m.	90	a m.
1 =	gome	пенто	•	3 1	a.m		a.m.
		•		12 50	р.ш.		p.m.
	lotterdar			12 18	77	12 20	"
	an Franc			3 50	a.m	4 0 7 0	a m.
<u> </u>	alparaiso	)		7 14	,,		**
Ŋ	ancouve	r	•	3 38	"	40	77
	ienna			15	pm.	10	p.m.
V	Vellingto:	n, N 2	Ζ.	11 39	- }}	11 30	,
ıΣ	okohami	В,	••	9.19	"	9.0	**
					••		

THE PRINCIPAL S	TATES OF INDIA  TATES OF INDIA  Provalling Approx. Revenue  Religion 1,868,000
State, Salute and Title of Runs  Salutes of 21 guns Baroda, Maharajah (Gaekwar) of Gwalior, Maharajah (Sindhia) of Hyderabad, Nizam of  Jammu and Kashmir, Maharajah of Mysore, Maharajah of  Salutes of 19 guns Bhopal, Nawab of Indore, Maharajah of Kalat, Khan (Wall) of Kalat, Khan (Wall) of Kalat, Khan (Wall) of Travancore, Maharajah of  Udaipur (Mewar), Maharana of Salutes of 17 guns Salutes of 17 guns Bahawalpur, Maharajah of Bharatpur, Maharajah of Bharatpur, Maharajah of Bharatpur, Maharajah of Bharatpur, Maharajah of Coohin, Maharajah of Coutoh, Maharajah of Coutoh, Maharajah of Coutoh, Maharajah of	8,164 2,443,007 Hindu and 3,623,070 Hindu and Mahommedan Mahommedan Mahommedan Mahommedan Mahommedan Hindu And Christian Hindu And Christian Hindu
Jahhur (Marwara) Kotah, Maharao of Reva, Maharao of Revar, Maharao of Alwar, Maharao of Banswara, Maharao of Banswara, Maharao of Dar, Maharao of Dungarpur, Minor Kalpur, Mir of Idar, Maharao of Rampur, Nawab of Siroh, Maharao of Siroh, Maharao of Rampur, Maharao of Rampur, Maharao of Rampur, Maharao of Salutes of 13 guns Benaras, Maharao of Cooch Bohar, Maharao of Ind, Maharao of Rapurhala, Maharao of Nabha, Maharao of Nabha, Maharao of Rapurhala, Maharao of Salutes of 13 guns Rapurhala, Maharao of Maharao of Nabha, Maharao of Rapipla, Maharao of Salutes of 11 guns Chattarpur, Maharao of Mandi, Rajah of Mandi, Maharajah of Pudolottai, Rajah of Pudolottai, Rajah of	3,158 1,606 1,784 1,784 1,784 1,221 1,221 2,27,544 1,447 6,050 1,669 2,080 1,958 216,528 1,958 216,528 314,661 1,318 1,259 3,284 298,457 1,1769 1,517 206,114 4,116 206,114 207,485 1,202 8,620 1,120 1,202 8,620 1,130 1,202 8,620 1,130 1,202 8,620 1,130 1,202 8,620 1,130 1,202 8,620 1,130 1,202 8,620 1,180 1,202 8,620 1,170 1,202 8,620 1,180 1,202 1,200

LAND HEMISPHERE



# ATLAS THE WORLD

MAP							PAGE
I	THE WORLD (On Mercator's Projection	)					2-3
2	Europl	-	-	-	-	-	4-5
3	Inc British Isles		-		-	-	6-7
4	Asia -	-		-	-		8-9
5	Airica -	-	-	-	-	-	10-11
6	NORTH AMERICA	-	-		-	-	12-13
7	SOUTH AMERICA		-	-	-	-	14-15
8	Australia and Ni w	Zeai	AND	-	-		16

#### THE PRINCIPAL STATES OF INDIA Approx. Revenue 1,868,000 1,813,000 6,283,000 sq miles State, Salute and Title of Ruler Hindu 2,443,007 3,523,070 14,436,148 Hindu 8,164 26,367 82,698 Hindu and Salutes of 21 mins Baroda, Maharajah (Gaskwar) of Gwallor, Maharajah (Sindhia) of Hyderabad, Nizam of Mahommedan 1,875,000 2,687,000 Mahommedan 3,646,243 6,557,302 Hindu $84,516 \\ 29,326$ 466,000 1,020,000 128,000 953,000 1,860,000 Jammu and Kashmir, Maharajah of Mysore, Maharajah of 729,955 1,318,237 342,101 957,187 5,095,973 Hindu Hindu Mahommedan 6,902 Salutes of 19 guns Bhopal, Nawab of Indore, Maharajah (Holkar) of Kalat, Khan (Wall) of Kolhapur, Maharajah of Travancore, Maharajah of 0,518 73,278 3,217 Hindu Hindu and 391,000 Christian 7,625 Hindu 374,000 221,000 912,000 121,000 637,000 1,566,910 Travancore, Maharajah of 12,694 Mahommedan Udaipur (Mewar), Maharana of 984,612 496,954 936,218 216,772 Hindu 15,003 1,978 23,317 2,220 1,480 Salutes of 17 ours Bahawalpur, Nawah of Bharatpur, Maharajah of Bikaner, Maharajah of Bundi, Maharajah of Coohin, Maharajah of Hindu Hindu Hindu and 240,000 975,000 1,035,000 1,035,000 1,124,000 450,000 169,000 $1,\overline{205},016$ Christian 514,307 2 631,775 2,125,982 685,804 1,625,520 Hindu Hindu 8,260 16,579 35,016 Cochin, Maharajah of Hindu Hindu Hindu and Sikh Cutch, Maharao of Jaipur, Maharajah of Jodhpur (Marwar), Maharajah of Kotah, Maharao of Patiala, Maharajah of Rowa, Maharajah of Tonk, Nawab of 5,684 5,942 Hindu 1,587,445 317,360 Hindu 13,000 2,553 413,000 52,000 132,000 131,000 52,000 132,000 107,000 79,000 749,751 225,106 243,430 254,086 227,544 227,183 262,260 314,661 Hindu 3,158 1,606 1,784 1,221 1,447 6,050 Animist Hindu Hindu Salutes of 15 guns Alwar, Maharajah of Hindu Mahommedan Banswara, Maharawal of Dhar, Maharajah of Dhar, Maharajah of Dholpur, Maharaj Rana of Dungarpur, Maharawal of Khafrur, Mir of Idar, Yaharajah of Orchha, Maharajah of Hindu Mahommedan 323,000 and Hindu 1,669 2,080 Hindu and Mahommedan 75,000 465,225 893 Hindu 216,528 151,000 1,958 Rampur, Nawab of 785,000 Hindu 391,272 500,274 Hindu and 283,000 220,000 Mahommedan Sirohi, Maharao of 870 Mahommedan Salutes of 13 guns Benares, Maharajah of 2,981 Hindu and Sikh 590,886 324,676 545,152 627,000 Bhaynagar, Maharajah of 1,318 1,259 3,284 Hindu and Mahommedan 278,000 Cooch Behar, Maharajah of Jind, Maharajah of Junagadh, Nawab of Mahommedan 224,000 and Hindu 316,757 Hindu and Sikh 844,000 598 $287,574 \\ 409,192$ Hindu and 82,000 Mahommedan Kapurthala, Maharajah of 928 Hindu and 3,791 $181,000 \\ 251,000$ Mahommedan 264,179 Nabha, Maharajah of Nawanagar, Maharajah of 1,769 Hindu 206,114 382,450 Hindu 42,000 376,000 1,517 Palanpur, Nawab of 4,116 Rajpipla, Maharajah of Tripura, Rajah of Hindu $\substack{161,267 \\ 205,846}$ Hindu and 115,000 60,000 163,000 141,000 Mahommedan $^{1,130}_{1,024}$ Solutes of 11 guns Chattarpur, Maharajah of Gondal, Maharajah of Hindu 207,465 445,606 400,694 Hindu 1,202 Hindu 8,620 1,179 4,180 Hindu $\bar{3}49.57\bar{3}$ Manipur, Maharajah of Manipur, Maharajah of Pudokottal, Rajah of Tehri (Garhwal), Rajah of

LAND HEBUSPHERL

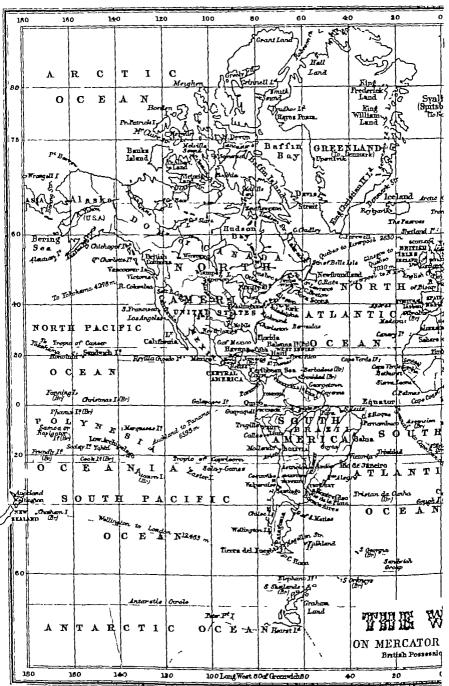


# ATLAS THE WORLD

MAI						PAGE
I	THE WORLD (On Mercator's Projection)					2-3
2	EUROPI	-	-	-	-	4-5
3	THE BRITISH ISLES	-	-	-	-	6-7
4	Asia		-	-		8-9
5	Africa	-	-	-	-	10-11
6	NORTH AMERICA -	•		~	-	12-13
7	SOUTH AMERICA	-	-	-	-	14-15
8	AUSTRALIA AND NEW Z	EAI AND	-	~		16

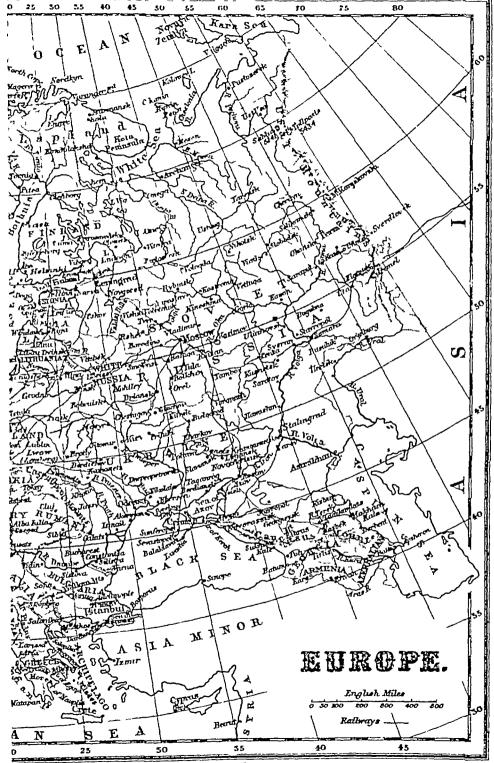


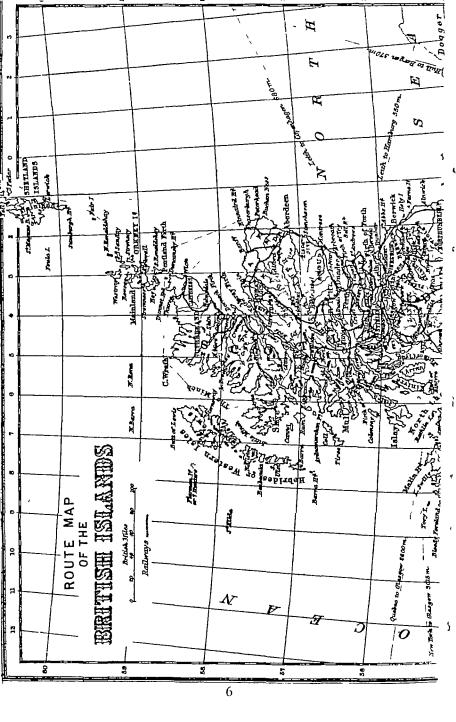




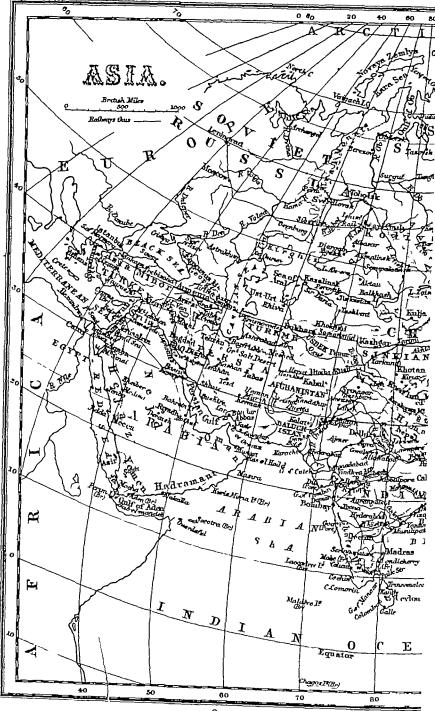


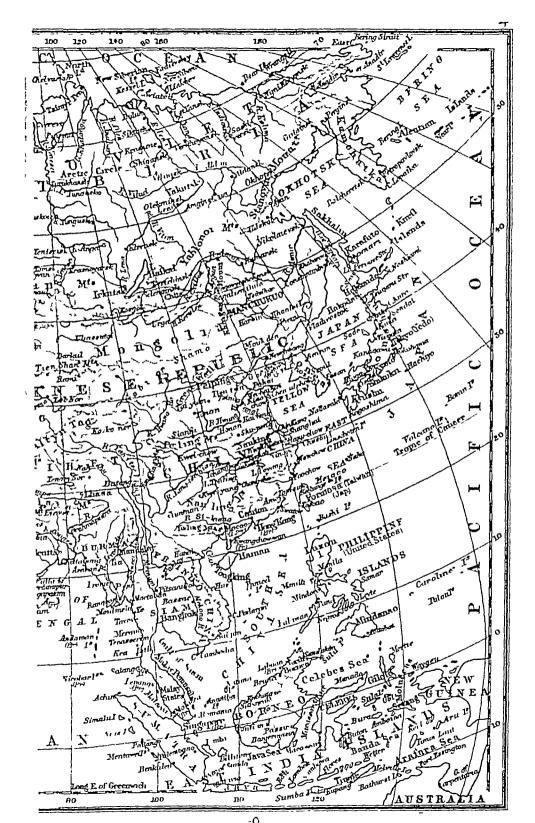


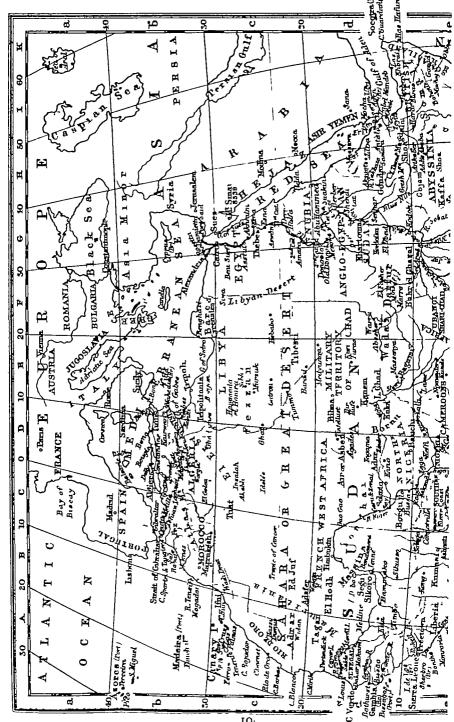


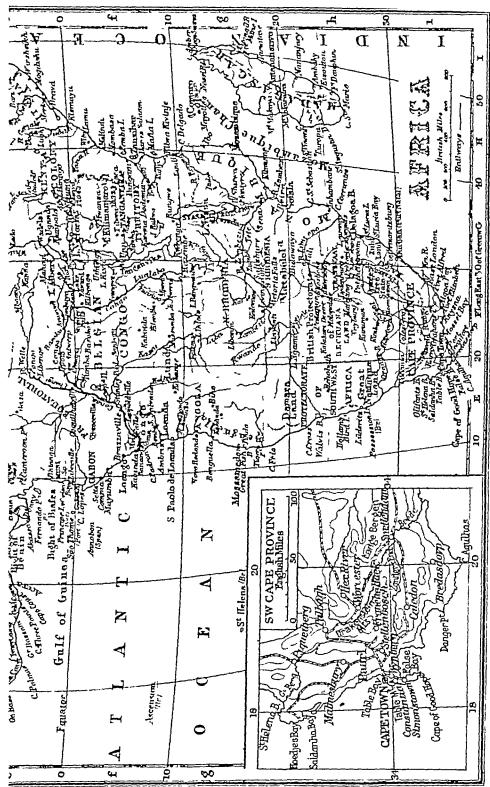


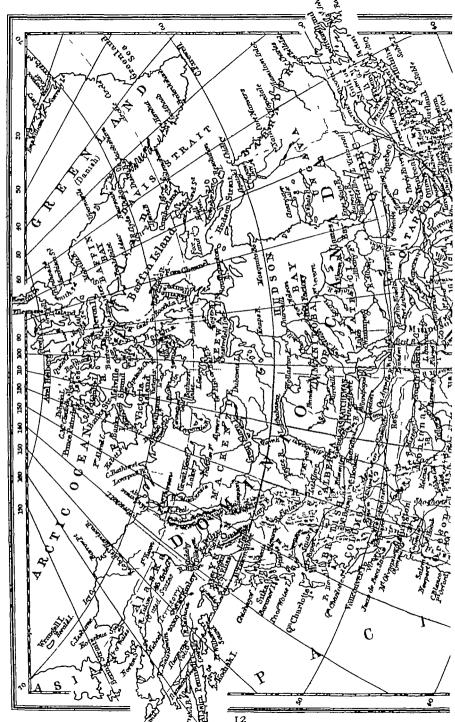


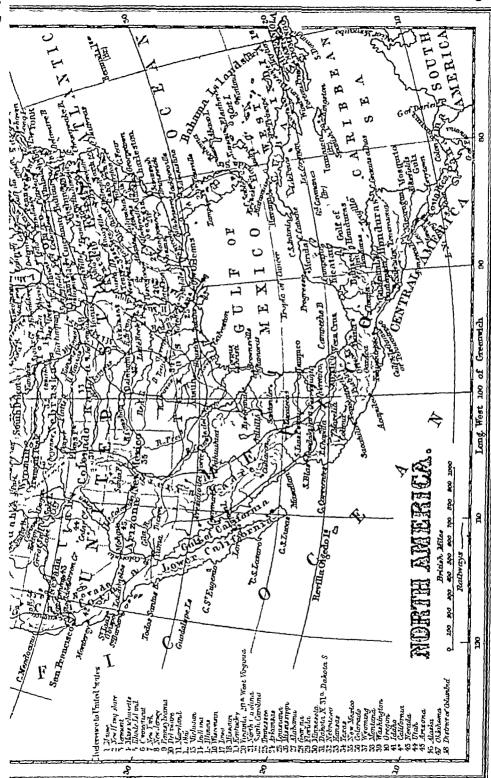












-13

